E-Designation Program

Hazardous Materials

Remedial Investigation Report

For

110 East 149th Street
Bronx, New York

OER Project Number #14EH-A604X
E-Designation E-227

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REPORT
TABLE OF CONTENTS

TABLE OF CONTENTS ..... **I**

LIST OF ACRONYMS ..... **IV**

CERTIFICATION **1**

EXECUTIVE SUMMARY **2**

Site Description, Physical Setting and Site History 2

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT **8**

1.0 SITE BACKGROUND **8**

1.1 Site Location 8
1.2 Redevelopment Plan 8
1.3 Environmental Investigations 9

2.0 DESCRIPTION OF SUBSURFACE INVESTIGATION **10**

3.0 PROJECT MANAGEMENT **11**

3.1 Project Orientation 11
3.2 Health and Safety Plan 11
3.3 Materials Management 11

4.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES **12**

4.1 Project Organization 12
4.2 Geophysical Investigation 12
4.3 Boring and Monitoring Wells 13
4.4 Sample Collection and Chemical Analysis 13

5.0 ENVIRONMENTAL EVALUATION **19**

5.1 Geological and Hydrogeological Conditions 19
5.2 Soil Chemistry 19
5.3 Groundwater Chemistry 21
5.4 Soil Vapor Chemistry 22
5.5 Summary and Conclusions 23

FIGURES

Figure 1 - Site Location Map

Figure 2 - Site Plan

Figure 3 - Redevelopment Plan

Figure 4 - Areas of Concern

Figure 5 – Sample Location Plan and Groundwater Flow

Figure 6A & 6B - Sample Location Plan with Soil Data

Figure 7 - Sample Location Plan with Groundwater Data

Figure 8 - Sample Location Plan with Soil Vapor Data

TABLES

Table 1 - Summary of Sampling and Analysis

Table 2 - Groundwater Monitoring Data

Table 3 - Soil Analytical Data - VOCs

Table 4 - Soil Analytical Data - SVOCs

Table 5 - Soil Analytical Data - Metals

Table 6 - Soil Analytical Data - Pesticides

Table 7 - Soil Analytical Data - PCBs

Table 8 - Groundwater Analytical Data - VOCs

Table 9 - Groundwater Analytical Data - SVOCs

Table 10 - Groundwater Analytical Data - Metals

Table 11 - Groundwater Analytical Data - Pesticides

Table 12 - Groundwater Analytical Data - PCBs

Table 13 - Soil Vapor Analytical Data - VOCs

APPENDICES

Appendix 1 - Phase I ESA Report Dated August 21, 2012 – Included on Attached CD

Appendix 2 - Geophysical Survey Report Dated June 12, 2014

Appendix 3 - Health and Safety Plan – Included on Attached CD

Appendix 4 - Soil Boring Logs and Purge Logs

Appendix 5 - Laboratory Data Deliverables for Soil and Groundwater Analytical Data – Included on Attached CD

Appendix 6 - Laboratory Data Deliverables for Soil Vapor Analytical Data – Included on Attached CD

LIST OF ACRONYMS

Acronym	Definition
ACM	Asbestos containing material
AOC	Area of Concern
CEQR	City Environmental Quality Review
Diversified	Diversified Geophysics, Inc.
"E"	E-Designation
ESA	Environmental Site Assessment
ELAP	Environmental Laboratory Accreditation Program
Ft amsl	Feet above mean sea level
ft bgs	feet below grade surface
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
HC	Hampton-Clarke Analytical and Field Services
Hydro Tech	Hydro Tech Environmental Corporation
LBP	Lead based paint
LCS	laboratory control samples
LiRo	LiRo Engineers, Inc.
MB	Method Blank
MG/KG	Milligrams per Kilogram
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NYC DCP	New York City Department of City Planning
NYC DOB	New York City Department of Buildings
NYCRR	New York Codes Rules and Regulations
NYC OER	New York City Office of Environmental Remediation
NYSDEC	New York State Department of Environmental Conservation
NYSDEC DER	New York State Department of Environmental Conservation Division of Environmental Remediation
NYSDOH	New York State Department of Health
OSHA	United States Occupational Health and Safety Administration
Pace	Pace Analytical Services, Inc.
PCBs	Polychlorinated Biphenyls
Phase II ESA	Phase II Environmental Site Assessment

Acronym	Definition
PID	Photo Ionization Detector
PVC	Polyvinyl chloride
QA/QC	Quality Assurance/Quality Control
QEP	Qualified Environmental Professional
RAP	Remedial Action Plan
RCNY	Rules of the City of New York
RECs	recognized environmental conditions
RIR	Remedial Investigation Report
SCLs	Soil Cleanup Levels
SCOs	Soil Cleanup Objectives
SVOCs	Semi-Volatile Organic Compounds
TAL	Target Analyte List
TB	Trip Blank
TCL	Target Compound List
TOGS	New York State 6NYCRR Part 703.5 Groundwater Standards and Guidance Values
TWP	Temporary well point
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds
Warren George	Warren George, Inc.
ug/Kg	Microgram/Kilogram
ug/L	Microgram/Liter
ug/m^3	Microgram/Cubic Meter

CERTIFICATION

I, Stephen Frank, am a Qualified Environmental Professional, as defined in the Rules of the City of New York (RCNY) § 43-1402(ar). I have primary direct responsibility for implementation of the Environmental Investigation for the 110 East 149th Street Site (NYC OER Project No. 14EH-A604X). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents, and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Qualified Environmental Professional Date Signature

EXECUTIVE SUMMARY

LiRo Engineers, Inc. (LiRo) has prepared this Remedial Investigation Report (RIR) to document the results of the Phase II Environmental Site Assessment (Phase II ESA) conducted to properly characterize the Site for potential environmental impacts from historic on-site/off-site storage tanks and/or uses/operations. The Phase II ESA addressed recognized environmental conditions (RECs) identified within a previous Phase I ESA and historic fill, and also provided general horizontal/vertical characterization across the Site for development purposes. The sampling procedures of this Phase II ESA were performed in accordance with the Phase II Investigation Work Plan (dated August 6, 2014) as well as applicable New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) guidance.

The subsurface investigation described in this document fulfills the objectives defined in the Phase II ESA Work Plan (dated August 6, 2014), complies with applicable environmental standards, criteria, and guidance, and conforms with applicable laws and regulations.

Site Location

The Site is addressed at 110 East 149th Street, Bronx, New York (Figure 1). The Site is located in the Concourse Village neighborhood of Bronx and is identified as Block 2351 and Lot 25. The Site is located at the southeast corner of the East 149th Street and Rivera Avenue intersection.

Site Description, Physical Setting and Site History

The Site is currently developed with a one and two-story concrete block building with a partial basement which is currently vacant. The building measures 35,698 square feet and is located on the central portion of the Site. The remaining portions of the Site consist of asphalt paved parking.

Historically, the Site was utilized as a lumber yard from the early 1900s through at least 1947. The existing structure was constructed between 1947 and 1951 and has historically been utilized as: an outdoor advertising company in 1951; a coffee warehouse from 1977 through 1980; Twinkie Import Company in 2000; and, Metro Beer and Soda, PQS 2, Twinkie Beverage, Inc.,

and Twinkie Import Company in 2005. The Site was also occupied by the Strauss Meat and Fish Company; however, the dates of occupancy are not known. A gasoline station has historically been located northwest adjacent to the Site from at least 1935 through at least 1986.

Summary of Proposed Redevelopment Plan

The proposed redevelopment project consists of demolition of the existing structure and redevelopment of the Site with one affordable housing building (Housing Building A), one moderate income building (Housing Building B), one moderate income duplex building (Housing Building C), a hotel, and a large courtyard/terrace. Underground parking will be located beneath the courtyard/terrace. The hotel and Housing Buildings B and C will have full or partial basements. The basement levels in Housing Buildings B and C will be finished at an elevation which is only slightly lower (approximately two feet lower) than the existing building floor grade. A one story, on-grade parking garage, with 49 spaces will be built as part of residential Building A. The entrance to the parking garage will be through the Exterior Street building. A landscaped courtyard will be built on the roof of the parking garage with shallow plantings of clean fill. Residents from Building A will gain direct access to the courtyard from the second floor of the building. Residents of Building B will not have direct access to the courtyard The layout of the proposed Site development is presented in Figure 3. The anticipated maximum depths of excavation are approximately 9 to 15 feet below existing grade for the hotel building, , 4 feet below existing grade for Building B and 5 feet below existing grade for the parking garage. Building A is anticipated to be constructed approximately 1-foot higher than the existing grade.

Summary of Phase I ESA Findings

Based on the findings of a Phase I ESA completed at the Site in August 2012, both visual observations and historical Sanborn Maps have identified the Site as including current and/or former USTs. Evidence noted at the time of the Phase I Site inspection included the presence of 11 vent pipes, two suspect fill ports, and a suspect former pump island. New York City Department of Building (NYC DOB) records indicate that one 3,000-gallon fuel oil tank was installed at the Site in 1956. In addition, the Sanborn Maps revealed that the northwest adjacent property was utilized as a gasoline station from at least 1935 through at least 1986. Based on the location of ten vent pipes along the west wall of the structure and the adjacent gasoline station,

LiRo believes that the vent pipes are associated with the adjacent gasoline station and that the associated tanks are likely located on the adjacent property rather than on the Site.

Summary of Geophysical Survey

A geophysical survey was performed across the Site by Diversified Geophysics, Inc. (Diversified) on June 11, 2014 to investigate for the presence of potential USTs that were identified during the Phase I ESA Site reconnaissance and in historic Sanborn maps and municipal records. Based on the results of the geophysical survey, an anomaly consistent with a UST was identified in the northeastern portion of the property. The location is consistent with a vent pipe and reported location of the 3,000-gallon fuel oil tank identified in the Phase I report. The survey was also used to investigate an area identified as a potential fuel dispenser pad. Based on the geophysical testing and further examination, this feature was determined to be a foundation, likely for a former light pole. The geophysical survey was also used to identify locations of utilities. A copy of the geophysical survey report is provided as an attachment to this Phase II ESA report.

Summary of the Work Performed Under the Phase II Environmental Site Assessment

LiRo performed the following scope of work:

1. Conducted a Site inspection to identify Areas of Concern (AOCs) and physical obstructions (i.e., structures, buildings, etc.), which are shown on Figure 4;
2. Installed 11 soil borings (SB-01 through SB-06 and MW-01 through MW-05) across the Site and collected 17 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Converted five of the soil borings into monitoring wells (MW-01 through MW-05) and collected five groundwater samples for chemical analysis to evaluate groundwater quality; and,
4. Installed seven soil vapor probes around the Site and collected seven soil vapor samples for chemical analysis.

Summary of Environmental Findings

Based on the data collected, the following findings were concluded by LiRo:

1. The elevation of the Site ranges from approximately 10 feet above mean sea level (ft amsl) in the southern portion of the Site to approximately 19.5 ft amsl in the northern portion of the Site;
2. Depth to groundwater at the Site ranges from approximately 9 feet below grade surface (ft bgs) in the southern portion of the Site to 18.5 ft bgs in the northern portion of the site;
3. Apparent groundwater flow is generally to the northwest, west, and southwest;
4. Based on geotechnical borings (conducted by others to support Site redevelopment), bedrock was observed at depths ranging from approximately 35 to 100 ft bgs;
5. The subsurface soils encountered during this Phase II investigation consisted predominantly of gray and brown colored fill material which included fine to medium (minimal coarse) grained sand with some silt and fragmented/blasted rock (schist). Anthropogenic materials (i.e., brick, concrete, gravel, glass, wood, ash, etc.), which are indicative of urban fill, were encountered throughout the Site at depths ranging up to approximately 21 ft bgs. Fine to coarse sand and clayey silt with traces of gravel (interpreted to be glacial till) were noted below 21 ft bgs. Refusal was encountered during the advancement of soil borings SB-01 and SB-04 at 12 ft bgs;
6. Seventeen soil/fill samples results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill results showed trace concentrations of acetone and methylene chloride (less than 100 micrograms/kilograms [ug/Kg]) in three soil samples. Six semi-volatile organic compounds (SVOCs), including benzo(a)anthracene (max 9.7 mg/kg), benzo(a)pyrene (mx 8.1 mg/kg), benzo(b)fluoranthene (max 8.2 mg/kg), chrysene (max 8.2), dibenzo(a,h)anthracene (1.3 mg/kg), and indeno(1,2,3-cd)pyrene (4.8 mg/kg) exceeded Restricted Residential Use. Metals including mercury (max 29 mg/kg), barium (max 5,500 mg/kg), chromium (max 920 mg/kg), lead (max 7,000 mg/kg), and zinc (max 6,100 mg/kg) exceeded Restricted Residential SCOs within six of the soil samples. Highest concentrations of metals were detected in one shallow soil boring, SB-06 indicating a hotspot area. One pesticide 4,4'-DDT (max 0.017 mg/kg), exceeded Unrestricted Use SCOs. PCBs were not detected in any of soil samples.

7. Five groundwater samples results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS) and CP-51. VOCs, including benzene (max. of 140 ug/L), ethyl benzene (at 5.3 ug/L), isopropyl benzene (at 110 ug/L), xylenes(m&p) (max. of 73 ug/L), xylene(o) (max. of 6.6 ug/L), and toluene (max. of 9.5 ug/L), were reported at concentrations exceeding their GQSs in two of the five groundwater samples (within MW-02 and MW-03 which are both located within close proximity for the former northwest adjacent gas station). Several metals were identified, but only iron, manganese and sodium were reported at concentrations exceeding their GQSs. PCBs and pesticides were not detected in any of the groundwater samples. As a result of the observation of elevated levels of petroleum-related volatile organic compounds (VOCs) at locations MW-02 and MW-03, a spill No. 1407530 was assigned by NYSDEC on October 21, 2014.
8. Seven soil vapor results collected during the RI were compared to the compounds listed in Table 3.1 Air Guideline Values Derived by the NYSDOH located in the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion dated October 2006. Petroleum related VOCs including 1,2,4-trimethylbenzene (146,000 µg/m3), 1,2-dichloroethane (6,000 µg/m3), benzene (19,400 µg/m3), ethyl benzene (87,900 µg/m3), methylene chloride (559 µg/m3), toluene (6,580 µg/m3), xylenes(m&p) (103,000 µg/m3), and/or xylenes(o) (2140 µg/m3), were detected in one soil vapor samples (SV-03) collected. Chlorinated VOC, tetrachloroethene (max. of 56 µg/m3) was detected in three soil vapor samples. Concentrations of methylene chloride exceeds the NYSDOH indoor air guideline value. Elevated levels of petroleum related compound and methylene chloride will require mitigation.

The findings of the Phase II Investigation indicate that the entire Site is covered with fill that contains elevated concentrations (relative to Part 375 Restricted Residential SCOs) of SVOCs and metals. Elevated levels of petroleum-related VOCs were reported in groundwater, and soil vapor in the northwest portion of the Site adjacent to the former gasoline station. This contamination is likely a result of contaminant migration from the adjacent gasoline station. A geophysical anomaly consistent with the reported location of a 3,000-gallon fuel oil tank was observed in the northeastern portion of the Site. There was no evidence of leakage from the fuel oil tank.

Based on the Phase II Investigation findings, a Remedial Action Plan (RAP) will be developed to identify soil and groundwater management/remediation measures to be implemented during Site redevelopment and to identify engineering controls that should be implemented to prevent exposure of future Site users to contaminants in soil, groundwater, and soil vapor.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

This Phase II Environmental Site Assessment Report (Phase II ESA) has been developed for 110 East 149th Street in the Concourse Village section of Bronx, New York (the "Site"). This project has been assigned project number 14EH-A604X by OER. This Phase II ESA report describes the subsurface investigation activities implemented at the Site in coordination with the New York City Office of Environmental Remediation (NYC OER) for the purposes of satisfying the requirements of the Hazardous Materials E-Designation Program. An E-Designation for Hazardous Materials (E-227) was placed on the Site by the New York City Department of City Planning (NYC DCP) as part of the May 20, 2009, Lower Concourse Rezoning and Related Action (City Environmental Quality Review [CEQR] number 08DCP071X). The subsurface investigation was performed between September 24 and October 13, 2014. This Phase II ESA report summarizes the nature and extent of contamination at the Site and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY § 43-1407(f).

1.1 Site Location and Prior Usage

The Site is located in the Concourse Village neighborhood of Bronx and is identified as Block 2351 and Lot 25 on the New York City Tax Map. Figure 1 is a Site Location Map. The Site is located at the southeast corner of the East 149th Street and Rivera Avenue intersection. The Site measures 50,488 square feet and is currently developed with a 35,698 square foot, one and two-story concrete block building with a partial basement. Figure 2 is a Site Plan. Historically, the Site was utilized as a lumber yard from the early 1900s through at least 1947. The existing structure was constructed between 1947 and 1951 and has historically been utilized for warehouse uses from at least 1951 through at least 2005.

1.2 Redevelopment Plan

The proposed redevelopment project consists of demolition of the existing structure and redevelopment of the Site with one affordable housing building (Housing Building A), one moderate income building (Housing Building B), one moderate income duplex building

(Housing Building C), a hotel, and a large courtyard. Underground parking will be located beneath the courtyard/terrace. The hotel and Housing Buildings B and C will have full or partial basements. The basement levels in Housing Buildings B and C will be finished at an elevation which is only slightly lower (approximately two feet lower) than the existing building floor grade. The layout of the proposed Site development is presented in Figure 3.

1.3 Environmental Investigations

On August 21, 2012, Hydro Tech Environmental Corporation (Hydro Tech) of Hauppauge, New York issued a Phase I ESA of the project Site. Based on the findings of this Phase I ESA, both visual observations during the Site inspection and historical Sanborn Maps identified the Site as including current and/or former underground storage tanks (USTs). Evidence noted at the time of the Site inspection included the presence of 11 vent pipes, two suspect fill ports, and a suspect former pump island. NYC DOB records indicate that one 3,000-gallon fuel oil tank was installed at the Site in 1956. Based on the historical Sanborn Maps, one 275-gallon gasoline tank was also located on the northeast corner of the property from at least 1935 through at least 1947. In addition, the Sanborn Maps revealed that the northwest adjacent property was utilized as a gasoline station from at least 1935 through at least 1986. Based on the location of ten of the 11 vent pipes along the west wall of the structure and the adjacent gasoline station, LiRo believes that the vent pipes are associated with the adjacent former gasoline station and that the associated tanks are likely located on the adjacent property.

Additional recognized environmental conditions (RECs) identified within the Phase I ESA include the presence of peeling suspect lead-based paint (LBP), suspect asbestos-containing materials (ACM), pooled anti-freeze on the ground surface, and the Site's identification as "E" Designation E-227 for Air and Hazardous Materials listings.

As a result of the RECs identified, Hydro Tech recommended a Phase II ESA consisting of a ground-penetrating radar (GPR) survey, soil and/or groundwater sampling to determine whether suspect USTs are present, and characterizing the environmental conditions on-site as a result of these suspect USTs. Hydro Tech also recommended that any future redevelopment work be conducted in accordance with CEQR requirements. The Phase I ESA is included in Appendix 1.

2.0 DESCRIPTION OF SUBSURFACE INVESTIGATION

The Phase II ESA was conducted in accordance with the scope of work presented in the OER-approved Phase II ESA Work Plan dated August 6, 2014 with additional sample locations requested by OER in an email correspondence dated August 21, 2014. The Phase II ESA was also conducted in accordance with applicable laws and regulations, and the site-specific Health and Safety Plan (HASP).

The Phase II ESA was conducted September 25 and October 13, 2014 and included the following actions:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e., structures, buildings, etc.);
2. Installed 11 soil borings (SB-01 through SB-06 and MW-01 through MW-05) across the Site and collected 17 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Converted five of the soil borings into monitoring wells (MW-01 through MW-05) and collected five groundwater samples for chemical analysis to evaluate groundwater quality; and,
4. Installed seven soil vapor probes around the Site and collected seven soil vapor samples for chemical analysis.

3.0 PROJECT MANAGEMENT

3.1 Project Orientation

The Qualified Environmental Professional (QEP) responsible for preparation of this Phase II ESA report is Stephen Frank.

3.2 Health and Safety Plan

All work described in this Phase II ESA report was performed in full compliance with applicable laws and regulations, including Site and United States Occupational Health and Safety Administration (OSHA) worker safety requirements and HAZWOPER requirements. A site-specific HASP was prepared and is included in Appendix 3 to address potential hazards, contaminants of concern based on past use, and safety requirements associated with investigation activities.

3.3 Materials Management

All materials encountered during the Phase II ESA were managed in accordance with applicable laws and regulations. Limited cuttings were generated and were disposed of at the Site within the boreholes to within 24 inches of the surface. The remainder of the boreholes were sealed by filling with bentonite chips and hydrating the chips. Disposable sampling equipment including spoons, gloves, bags, paper towels, etc. that contacted environmental media were double-bagged and disposed of as municipal solid waste as non-hazardous trash.

4.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

4.1 Project Organization

LiRo was contracted through River Avenue Management to complete this Phase II ESA at the Site identified as 110 East 149th Street. Prior to the start of the Phase II subsurface investigation, Diversified Geophysics, Inc. (Diversified) conducted a geophysical survey of the Site to investigate for the existence of potential USTs and other subsurface infrastructure. Following the geophysical survey, LiRo oversaw Warren George, Inc. (Warren George) perform the drilling activities, including boring advancement, monitoring well installation, and soil probe point installation. The soil and groundwater samples were submitted to Hampton-Clarke Analytical and Field Services (HC) for analysis while the soil vapor probe samples were submitted to Pace Analytical Services, Inc. (Pace) for analysis.

4.2 Geophysical Investigation

A geophysical survey was performed under LiRo's direction by Diversified on June 11, 2014 across the Site to investigate for the presence of potential USTs that were identified during the Phase I ESA Site reconnaissance and in historic Sanborn maps and municipal records. Based on the results of the geophysical survey, an anomaly consistent with a UST was identified on the northeast portion of the Site. The location of this anomaly is consistent with a vent pipe and reported location of the 3,000-gallon fuel oil tank identified in the Phase I ESA report. This fuel oil tank was reportedly installed in 1956. There was no evidence of USTs found in the northwest portion of the Site, further corroborating the conclusion that the ten vent lines service USTs on the northwest adjacent former gas station property.

The geophysical survey was also used to investigate an area identified as a potential fuel dispenser pad and this feature was determined to be a foundation, likely for a former light pole. In addition, the survey was used to identify locations of utilities. A copy of the geophysical survey report is provided as Appendix 2 to this Phase II ESA report.

4.3 Boring and Monitoring Wells

Drilling and Soil Logging

Warren George advanced 11 soil borings (SB-01 through SB-06 and MW-01 through MW-05) at the locations shown on Figure 5. The soil borings were advanced between September 25, and October 13, 2014 and was overseen by a LiRo geologist. The geologist, under the direction of a QEP, was present to supervise the sampling work, screen the soil samples for environmental impacts, lot the screening results, and collect environmental samples for laboratory analysis.

The investigative borings were advanced to the following depths using a direct-push Geoprobe:

- SB-01 and SB-04 – 12 ft bgs;
- SB-02 – 8 ft bgs;
- SB-03, SB-05 and SB-06 – 4 ft bgs;
- MW-01 and MW-02 – 24 ft bgs;
- MW-03 – 20 ft bgs; and,
- MW-04 and MW-05 – 16 ft bgs.

Soil samples were collected continuously to the boring termination depth using Macro Core stainless steel samplers equipped with polyvinyl chloride (PVC) liners advanced in four-foot increments. Each sample was screened for organic vapors with a calibrated photo ionization detector (PID) and evaluated for visual and olfactory indications of potential environmental impacts. A description of the Site stratigraphy is included in Section 5 of this report.

Temporary 1-inch PVC monitoring wells were installed in the monitoring well borings at the depths indicated on Table 1. Boring logs were prepared and are included in Appendix 4.

4.4 Sample Collection and Chemical Analysis

Sampling performed as part of this field investigation was conducted in accordance with the Phase II ESA Work Plan for the Site and also considered other means for bias of sampling on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. Environmental media including soil, groundwater, and soil vapor were sampled and are evaluated in this Phase II ESA report.

Samples have been used to evaluate the nature and extent of contamination and to assess the potential impact of contamination on public health and the environment. The sampling performed and presented in this Phase II ESA report provides sufficient basis for evaluation of remedial action alternatives and selection of a final remedy.

Soil Sampling

Soil samples were collected from the 11 soil borings advanced on the Site. In general, discrete grab soil samples were selected for analysis from the interval exhibiting evidence of petroleum impacts (highest PID reading), from the bottom 6-inch interval in each boring, and/or at the groundwater interface zone. The final depths of the borings correlate to the proposed development depths of the Site.

In total, 17 soil samples were collected for chemical analysis during the Phase II ESA. Disposable sampling equipment, including acetate sleeves and latex gloves, were used to minimize cross-contamination between samples. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Table 1. Figure 5 shows the location of soil samples collected. The samples retained for analysis were placed into laboratory-supplied sample containers, sealed, labeled, and placed in coolers with ice to depress the sample temperature. A chain of custody form was completed and kept with the coolers and shipping containers to do document the sequence of sample possession.

A blind duplicate Quality Assurance/Quality Control (QA/QC) sample was collected to evaluate field sampling precision or reproducibility of measurements of the same parameter under the given set of conditions. In addition, the laboratory utilized internal QA/QC procedures and samples (including laboratory control samples [LCSs], method blanks [MBs], surrogates, and Matrix Spike/Matrix Spike Duplicates [MS/MSDs]) to confirm that the laboratory data are of sufficient accuracy and precision.

The soil samples were submitted for analysis to HC, a NYSDOH Environmental Laboratory Accreditation Program (ELAP)-certified laboratory. All soil samples were analyzed for Target Compound List (TCL) VOCs by United States Environmental Protection Agency (USEPA) Method 8260C, TCL SVOCs by USEPA Method 8270D, pesticides and PCBs by USEPA Method 8081B/8082A, and Target Analyte List (TAL) metals by USEPA Method 6010C and USEPA Method 7473 (mercury).

Groundwater Sampling

Groundwater was sampled by LiRo environmental professionals using a peristaltic pump and dedicated polyethylene tubing on October 13, 2014. Sampling was conducted in accordance with NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation (May 2010) and Sampling Guidelines and Protocols, dated March 1991. One representative groundwater sample was collected from each of the five temporary well points (TWPs). Disposable sampling equipment, including latex gloves and sample tubing, were used to minimize cross-contamination between samples and the peristaltic pump was decontaminated between locations. Sampling logs with information on purging and sampling of groundwater monitoring wells are included in Appendix 4. Figure 5 shows the location of groundwater samples.

The samples retained for analysis were placed into laboratory-supplied sample containers, sealed, labeled, and placed in coolers with ice to depress the sample temperature. A chain of custody form was completed and kept with the coolers and shipping containers to document the sequence of sample possession.

One Trip Blank (TB) sample was analyzed. In addition, the laboratory utilized internal QA/QC procedures and samples, including LCSs, MBs, surrogates, and MS/MSDs.

The groundwater samples were submitted for analysis to HC, a NYSDOH ELAP-certified laboratory. The five groundwater samples collected from the temporary locations were analyzed for VOCs by USEPA Method 8260C, SVOCs by USEPA Method 8270D, pesticides and PCBs by USEPA Method 8081B/8082A, and dissolved and total TAL metals by USEPA Method 6010C and USEPA Method 7473 (mercury).

Soil Vapor Sampling

Soil vapor samples were collected from implants which were installed with direct-push sampling equipment to depth ranging from 4 to 5 ft bgs to 13 to 15 ft bgs. The annulus around each implant was backfilled with sand. A bentonite seal was placed from just above the implant to the surface to seal the vapor implant from the surrounding atmosphere. Each implant was purged prior to sampling at a rate of less than 0.2 L/min. Seven soil vapor implants were installed and seven soil vapor samples were collected for chemical analysis during this Phase II ESA. Soil vapor sampling locations are shown in Figure 5. Methodologies used for soil vapor assessment

conform to the *NYSDOH Final Guidance on Soil Vapor Intrusion, October 2006*.

Soil vapor samples were collected in six-liter Summa canisters that were certified clean by the laboratory. The flow rate for sampling did not exceed 0.2 L/min. A chain of custody form was completed and kept with the shipping containers to document the sequence of sample possession. Disposable sampling equipment, including latex gloves and sample tubing, were used to minimize cross-contamination between samples.

As part of the vapor intrusion evaluation, a tracer gas was used in accordance with NYSDOH protocols to verify the integrity of the soil vapor probe seals. Helium was used as the tracer gas and a sealed enclosure was used to keep the helium in contact with the probe during testing. A portable monitoring device was used to analyze a sample of the soil vapor for helium prior to sampling. The helium tracer testing results confirmed the integrity of the vapor implant seal at each of the vapor sampling locations.

The laboratory utilized internal QA/QC procedures and samples, including a LCS and a MB. The samples were submitted to Pace, a NYSDOH ELAP-certified laboratory, for analysis of VOCs using USEPA Method TO-15.

Results of Chemical Analyses

Laboratory data for soil, groundwater, and soil vapor are summarized in Tables 3 through 13. Laboratory data deliverables for all samples evaluated in this Phase II ESA report are provided in Appendices 5 and 6.

Laboratory Analysis

Laboratory analytical work presented in this Phase II ESA report has been performed in the following manner:

Matrix	Sample Type	Analytical Analysis	Number of Samples	Trip Blanks*	Total Samples
Soil	Grab	TCL VOCs	13	0	13
Soil	Duplicate Grab	TCL VOCs	1	0	1
Soil	Grab	CP-51 VOCs	3	0	3

Matrix	Sample Type	Analytical Analysis	Number of Samples	Trip Blanks*	Total Samples
Soil	Grab and Composite	TCL SVOCs, TCL PCBs, TCL Pesticides, TCL TAL Metals	13	Not Applicable	13
Soil	Grab Duplicate	TCL SVOCs, TCL PCBs, TCL Pesticides, TCL TAL Metals	1	Not Applicable	1
Soil	Grab	CP-51 SVOCs	3	0	3
Groundwater	Grab	TCL VOCs, TCL SVOCs, TCL PCBs, TCL Pesticides, TCL TAL Metals	5	1	6
Soil Vapor	Grab	VOCs by TO-15	7	0	7

Notes:
***The Trip Blank sample was supplied by the Laboratory.

QA/QC samples were collected during the sampling process to assess the accuracy and precision of the resulting analytical data. QA/QC samples were collected in accordance with the Phase II ESI Work Plan and included one duplicate sample for each soil sample delivery group and one TB sample for each groundwater sample delivery group.

The duplicate samples were collected at the same time and the same manner as the primary environmental samples and were managed and tested together with the primary environmental samples. The results of the duplicate sample analyses are shown on Tables 3 through 7 next to the associated primary environmental samples. With the exception of metals and one SVOC parameter (naphthalene), the data from the duplicate soil sample is nearly identical to the data for the associated primary environmental sample, indicating a high degree of analytical precision. The duplicate sample results do not suggest any concerns for sample quality.

The TB sample consisted of aliquots of laboratory-supplied water that were transmitted with the sample coolers and were managed and analyzed for VOCs together with the primary environmental samples. The TB sample associated with the groundwater samples did not exhibit any VOC detections. These results do not suggest any potential for significant VOC cross-contamination between the samples.

The laboratory also performed QA/QC sample analyses, including analyses of LCSs, MBs, surrogates, and MS/MSDs. Laboratory QA/QC samples are summarized in Appendix 5 of this report.

Based on the results from the laboratory QA/QC samples, there does not appear to have been any systematic bias introduced by either interfering compounds in the sample matrix or by laboratory techniques that could have introduced systematic or random errors in the analytical process for the soil and groundwater samples. The soil vapor sample SV-03 results appeared anomalous compared to associated soil and groundwater results. The laboratory reported an elevated surrogate recovery value for the SV-03 sample, and therefore, the results may not be representative of Site conditions. Based on proximity of the SV-03 location to the adjacent former gasoline station and presence of soil and groundwater contamination, soil vapor intrusion mitigation measures can be inferred to be needed for construction in that portion of the Site (i.e., proximal to the adjacent former gasoline station property). The Phase II investigation data appear to be of adequate quality for their intended use.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

The subsurface soils encountered during this Phase II investigation consisted predominantly of gray and brown colored fill material which typically included fine to medium grained sand with some silt and fragmented/blasted rock (schist). Anthropogenic materials (i.e., brick, concrete, gravel, glass, wood, ash, etc.), which are indicative of urban fill, were encountered throughout the Site at depths ranging up to approximately 21 ft bgs. Fine to coarse sand and clayey silt with traces of gravel (interpreted to be glacial till) were noted below 21 ft bgs. Refusal was encountered during the advancement of soil borings SB-01 and SB-04 at 12 ft bgs.

Based on geotechnical borings conducted at the Site (by others), bedrock was observed at depths ranging from approximately 35 to 100 ft bgs.

Hydrogeology

Depth to groundwater at the Site ranges from approximately 9 feet below grade surface (ft bgs) in the southern portion of the Site to 18.5 ft bgs in the northern portion of the site. The investigation depth to groundwater measurements and groundwater table elevation data are summarized in Table 2. Groundwater elevation contours are shown on Figure 5. Apparent groundwater flow is generally to the northwest, west, and southwest. No confining units were encountered.

5.2 Soil Chemistry

Summary tables of data from chemical analyses performed on soil samples is included in Tables 3 through 7. Figures 6A and 6B show the sample locations and lists contaminant concentrations for samples that exceed the 6NYCRR Part 375 Unrestricted Use and Restricted Use – Restricted Residential Soil Cleanup Objectives (SCOs) and CP-51 Table SCLs, if applicable. A summary of the analytical results is as follows.

- Elevated concentrations of petroleum-related VOCs were detected at sample locations MW-02 and MW-03 adjacent to the former gasoline station northwest of the Site. Benzene, ethyl benzene, isopropyl benzene, n-propyl benzene, and total xylene, were

reported within the samples from MW-02 and MW-03 at concentrations which exceed the CP-51 Table 2 Gasoline Contaminated Soils Soil Cleanup Levels (SCLs). The VOC-contaminated samples were collected from depths near the water table surface. As a result of these observations, a spill was reported to the NYSDEC on October 21, 2014. Spill No. 1407530 was subsequently assigned by NYSDEC.

- Low level (i.e., less than 100 micrograms/kilograms [ug/Kg]) VOC exceedances of Part 375 Unrestricted Use SCOs for acetone and methylene chloride were reported at sample locations SB-04, MW-01, and MW-04. The observed concentrations are far below Restricted Residential Use SCOs for these compounds.
- Eight SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and naphthalene, were reported within ten of the soil samples at concentrations which exceed the 6NYCRR Part 375 Unrestricted Use SCOs. The Part 375 Unrestricted Use SVOC exceedances were reported within SB-01 (two different depths), SB-04, SB-05, SB-06, MW-01, MW-02, MW-03, MW-04, and MW-05. This SVOC contamination is characteristic of the fill that is present at the Site.
- Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenzo(a,h) anthracene, and indeno(1,2,3-cd)pyrene, were reported at concentrations which exceed the 6NYCRR Part 375 Restricted Use – Restricted Residential SCOs in nine of the 17 soil samples collected. The Part 375 Restricted Use – Restricted Residential SVOC exceedances were reported within SB-01 (two different depths), SB-04, SB-05, SB-06, MW-01, MW-03, MW-04, and MW-05.
- At least one of seven metals, including mercury, barium, chromium, copper, lead, zinc, and cadmium, were reported within all of the soil samples at concentrations which exceed the 6NYCRR Part 375 Unrestricted Use SCOs. This metals contamination is characteristic of the fill that is present at the Site.
- Mercury, aluminum, barium, chromium, lead, and zinc, were reported within six of the soil samples at concentrations which exceed the 6NYCRR Part 375 Restricted Use – Restricted Residential SCOs. The Part 375 Restricted Use – Restricted Residential metal exceedances were reported within SB-01, SB-06, MW-01 (two different depths), MW-02, and MW-04. This metals contamination is characteristic

of the fill that is present at the Site. The relatively higher metals concentrations that were observed in the sample from SB-06 are likely a result of fine-grained metallic debris in the sample.

- One pesticide, p,p'-DDT, was reported within three of the soil samples at concentrations which exceed the 6NYCRR Part 375 Unrestricted Use SCOs. The Part 375 Unrestricted Use pesticide exceedances were reported within SB-05 and MW-04 (two different depths). These detections may be attributed to contaminants in historic fill material placed at the Site. No pesticides were reported at concentrations which exceed the 6NYCRR Part 375 Restricted Use – Restricted Residential SCOs.
- No PCBs were detected in the samples.

Based on the analytical results for the soil samples collected at the Site, petroleum-impacts were reported within the deeper soils on the northwest portion of the Site and is attributed to migration of contaminants from the adjacent former gasoline station. Fill which is present across the entire Site contains elevated concentrations of SVOCs, metals, and to a limited extent, one pesticide.

5.3 Groundwater Chemistry

Summary tables of data from chemical analyses performed on groundwater samples is included in Tables 8 through 12. Figure 7 shows the location and lists the concentrations for groundwater results that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards (TOGS Standards and Guidance Values). A summary of the analytical results is as follows.

- Six VOCs, including benzene, ethyl benzene, isopropyl benzene, xylenes(m&p), xylene(o), and toluene, were reported at concentrations exceeding their respective TOGS Standards and Guidance Values in two of the groundwater samples. These TOGS VOC exceedances were noted within MW-02 and MW-03 which are both located within close proximity for the former northwest adjacent gas station.
- One SVOC, phenol, was reported at a concentration exceeding TOGS Standards and Guidance Values in one of the groundwater samples. This TOGS SVOC exceedance was noted within MW-02 which is located within close proximity to the former northwest adjacent gas station.
- At least one of seven metals, including chromium, copper, iron, manganese, nickel, sodium, and arsenic, were reported at concentrations exceeding the TOGS Standards and

Guidance Values in all five unfiltered groundwater samples collected. Among filtered groundwater samples, exceedances were reported in all five groundwater samples but were limited to three metals: iron, manganese, and sodium.

- PCBs and pesticides were not detected in any of the groundwater samples.

Based on the analytical results for the groundwater samples collected at the Site, petroleum-impacts were reported on the northwest portion of the Site adjacent to the former gasoline station which is consistent with the soil analytical data findings. The distribution of elevated metals concentrations do not suggest an on-site source. Comparison of filtered and unfiltered sample concentrations indicate that most of the unfiltered exceedances are attributable to suspended sediment in the samples. The metals which were reported as exceedances in filtered samples (iron, manganese, and sodium) are not considered to be a concern as groundwater use is not contemplated at the Site.

5.4 Soil Vapor Chemistry

Currently, there are no New York State standards, criteria, or guidance values for concentrations of compounds in soil vapor or no databases available of background levels of volatile chemicals in soil vapor. Therefore, in accordance with NYSDOH protocol, the soil vapor analytical results are reviewed in conjunction with the other environmental sampling (i.e., soil and groundwater) conducted at the Site to identify trends and spatial variations in the data. The soil vapor analytical data can also be compared to the air guideline values derived by the NYSDOH which include guideline values for methylene chloride, tetrachloroethene, and trichloroethene. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 13. Figure 8 shows the location and list the concentrations for soil vapor samples with detected concentrations.

In summary, VOCs, including 1,2,4-trimethylbenzene, 1,2-dichloroethane, acetone, benzene, carbon disulfide, chloroform, ethyl benzene, methylene chloride, tetrachloroethene, toluene, trichlorofluoromethane, xylenes(m&p), and/or xylenes(o), were detected among the seven soil vapor samples collected. Comparison of the results for the two detected VOCs (methylene chloride and tetrachloroethene) for which NYSDOH has published air guideline values, shows that only the observed methylene chloride concentration at SV-3 exceeds the NYSDOH indoor air guideline value. This result is considered anomalous due to the absence of significant

concentrations of methylene chloride in soil or groundwater at the adjacent MW-03 sample location. As previously noted, the laboratory reported an elevated surrogate recovery value for this sample, and therefore, the results may not be representative of Site conditions.

The greatest soil vapor concentrations were reported for petroleum-related compounds in the soil vapor sample SV-2 collected adjacent to the former gasoline station.

5.5 Summary and Conclusions

The findings of the Phase II Investigation indicate that the entire Site is covered with fill that contains elevated concentrations (relative to Part 375 Restricted Residential SCOs) of SVOCs and metals. Elevated levels of petroleum-related VOCs were reported in soil, groundwater, and soil vapor in the northwest portion of the Site adjacent to the former gasoline station. This contamination is likely a result of contaminant migration from the adjacent property. A geophysical anomaly consistent with the reported location of a 3,000-gallon fuel oil tank was observed in the northeastern portion of the site. There was no evidence of leakage from the fuel oil tank. Based on the Phase II Investigation findings, a Remedial Action Plan (RAP) should be developed to identify soil and groundwater management/remediation measures to be implemented during Site redevelopment and to identify engineering controls that should be implemented to prevent exposure of future Site users to contaminants in soil, groundwater, and soil vapor.

FIGURES

River Avenue Management

LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

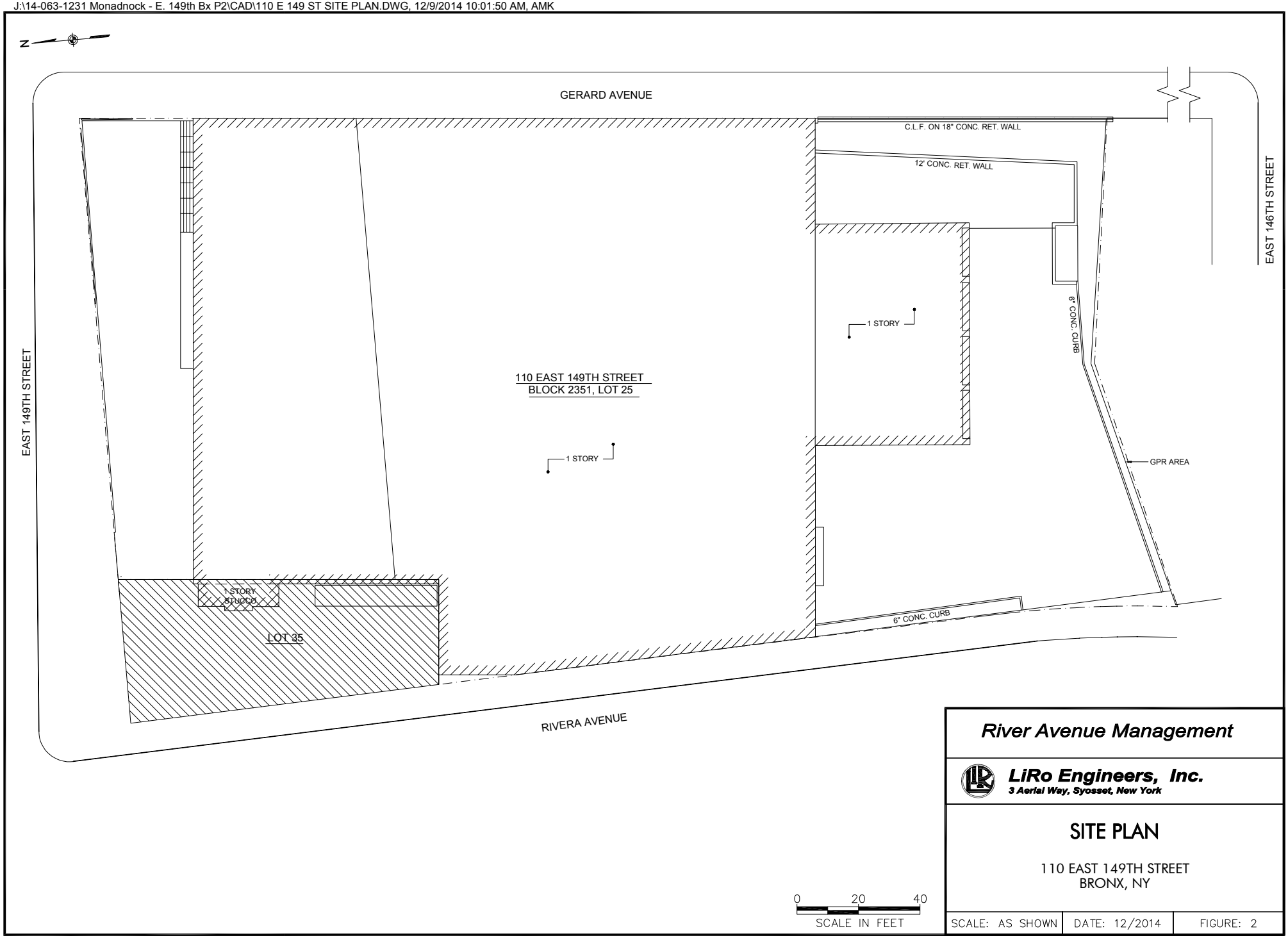
SITE LOCATION MAP

110 EAST 149TH STREET
BRONX, NY

SCALE: NONE	DATE: 12/2014	FIGURE: 1

J:\14-063-1231 Monadnock - E. 149th Bx P2\CAD\110 E 149 ST Site Loc Map.ai

J:\14-063-1231 Monadnock - E. 149th Bx P2\CAD\110 E 149 ST SITE PLAN.DWG, 12/9/2014 10:01:50 AM, AMK



River Avenue Management

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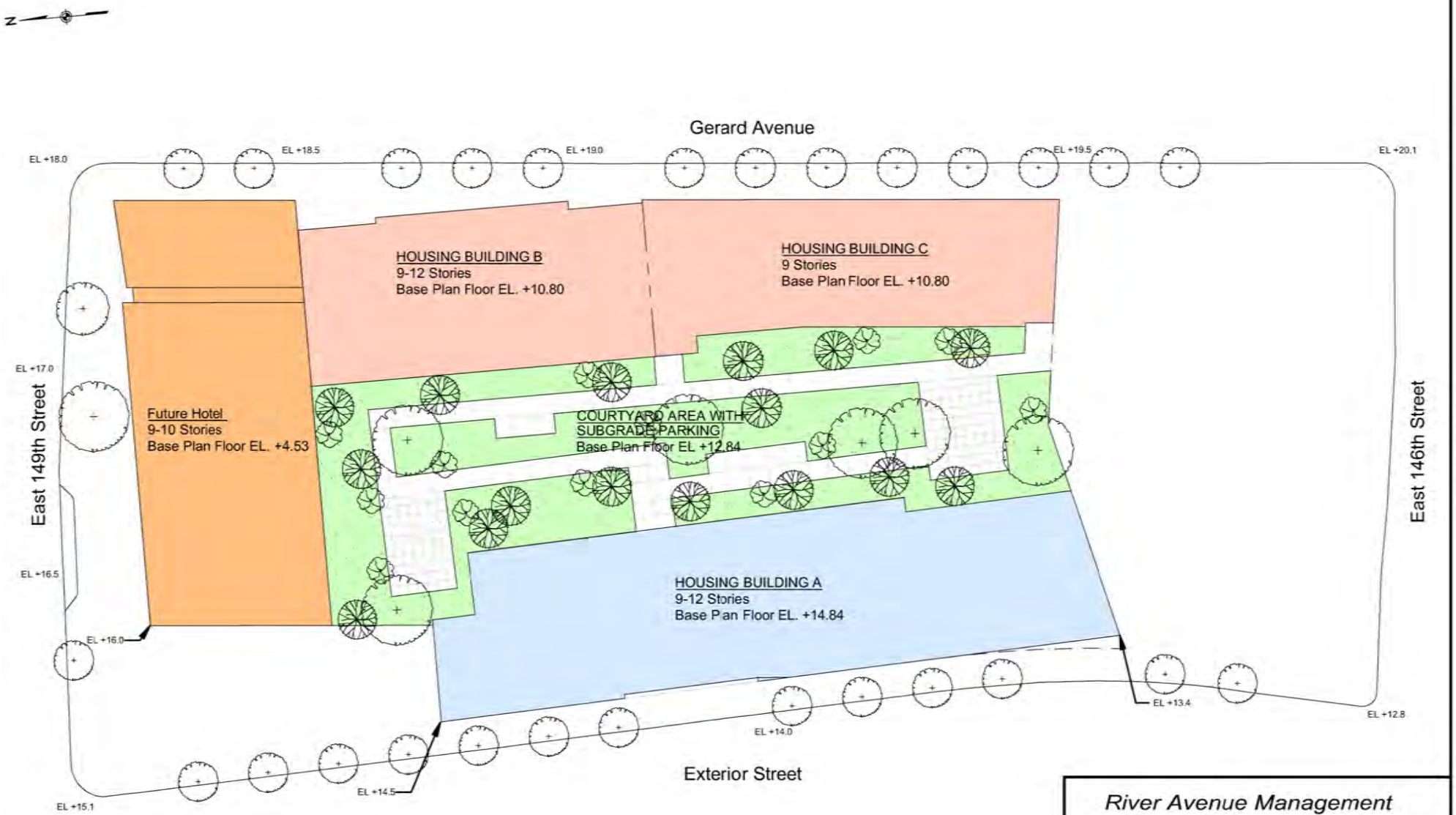
SITE PLAN

110 EAST 149TH STREET
BRONX, NY

SCALE: AS SHOWN	DATE: 12/2014	FIGURE: 2

J:\14-063-1231 Monadnock - E. 149th Bx P2\CAD\110 E 149 ST PROP SITE PLAN.DWG, 12/9/2014 10:01:23 AM, AMK



0 25 50
SCALE IN FEET

River Avenue Management

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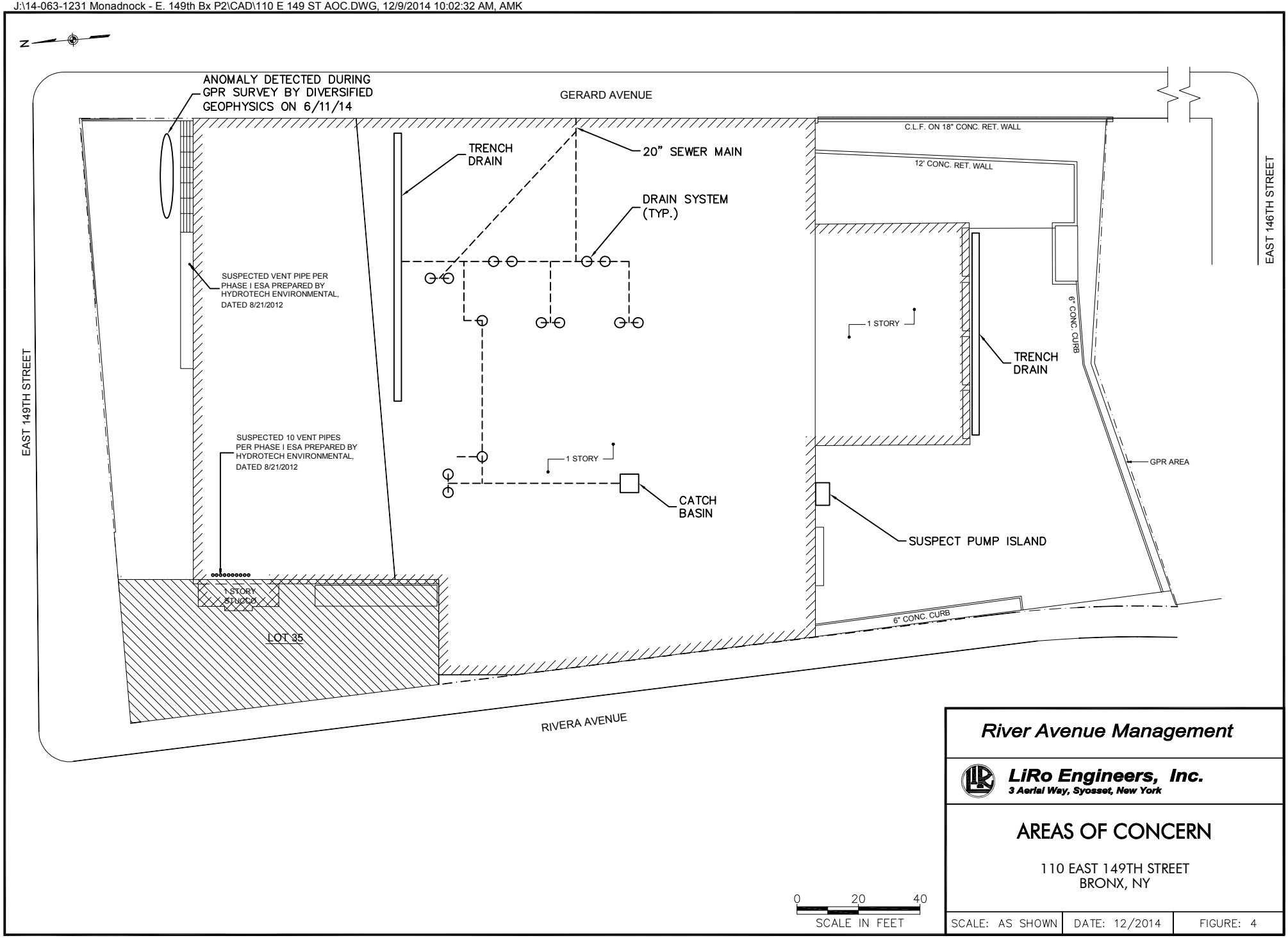
REDEVELOPMENT PLAN

110 EAST 149TH STREET
BRONX, NY

SCALE: AS SHOWN	DATE: 12/2014	FIGURE: 3

J:\14-063-1231 Monadnock - E. 149th Bx P2\CAD\110 E 149 ST AOC.DWG, 12/9/2014 10:02:32 AM, AMK



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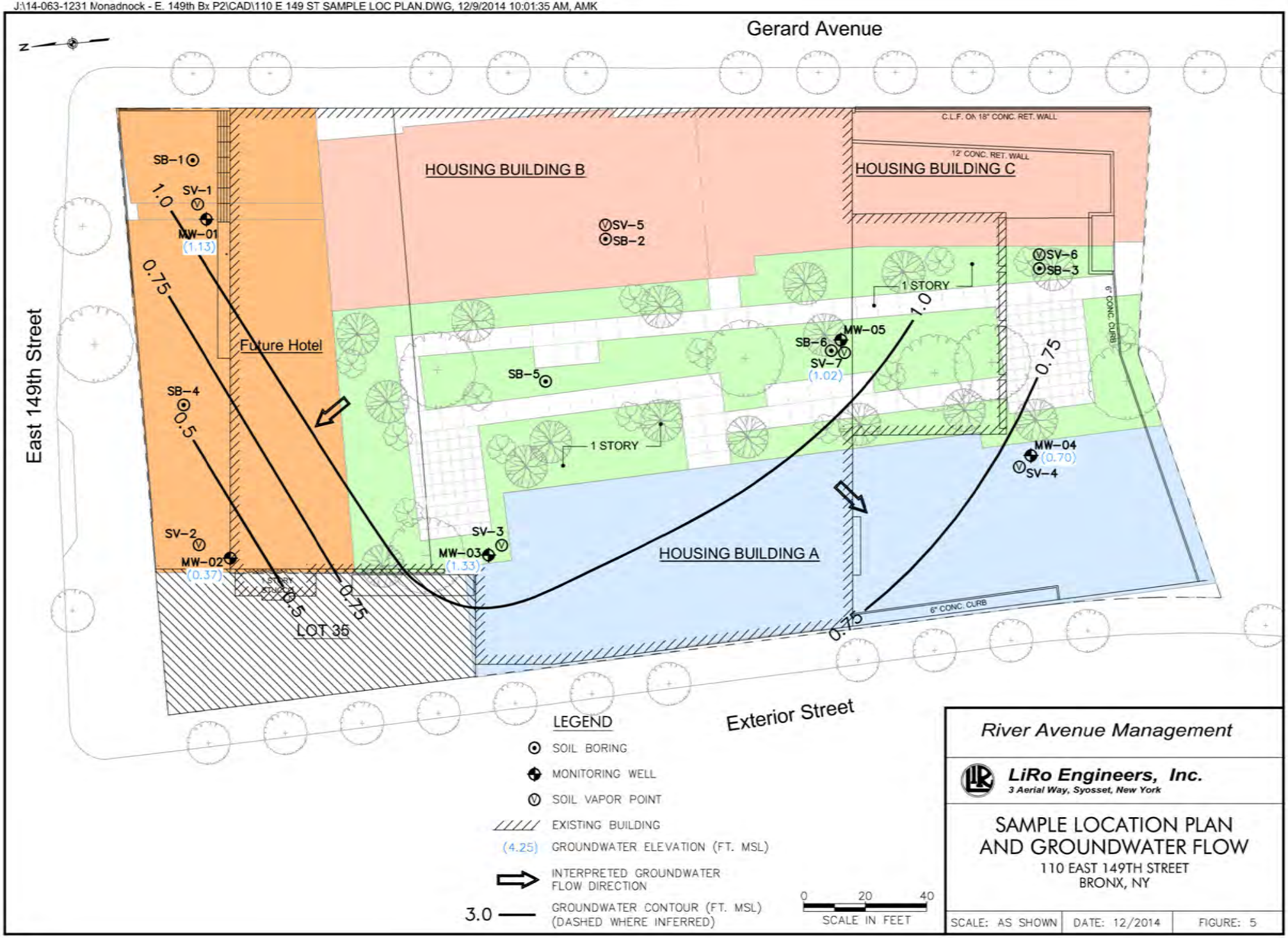
AREAS OF CONCERN

110 EAST 149TH STREET
BRONX, NY

SCALE: AS SHOWN	DATE: 12/2014	FIGURE: 4

J:\14-063-1231 Monadnock - E. 149th Bx P2\CAD\110 E 149 ST SAMPLE LOC PLAN.DWG, 12/9/2014 10:01:35 AM, AMK



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SAMPLE LOCATION PLAN AND GROUNDWATER FLOW
110 EAST 149TH STREET
BRONX, NY

SCALE: AS SHOWN	DATE: 12/2014	FIGURE: 5

J:\14-063-1231 Monadnock - E. 149th Bx P2\CAD\110 E 149 ST SOIL SAMPLE.DWG, 1/7/2015 2:32:25 PM, AMK

N

MW-01-0-2.0'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Mercury	0.81	0.18	0.46
Chromium	110	30	35
Lead	400	63	470
Zinc	10000	109	130
Benzo(a)anthracene	1	1	2.9
Benzo(a)pyrene	1	1	2.5
Benzo(b)fluorathene	1	1	2.9
Benzo(k)fluorathene	3.9	0.8	1.4
Chrysene	3.9	1	2.4
Dibenzo(a,h)anthracene	0.33	0.33	0.45
Indeno(1,2,3-cd)pyrene	0.5	0.5	1.6
Acetone	100	0.05	0.1

SB-01-6.5-7.0'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Benzo(a)anthracene	1	1	4
Benzo(a)pyrene	1	1	3.2
Benzo(b)fluorathene	1	1	3.9
Benzo(k)fluorathene	3.9	0.8	1.1
Chrysene	3.9	1	3.3
Dibenzo(a,h)anthracene	0.33	0.33	0.57
Indeno(1,2,3-cd)pyrene	0.5	1.7	1.7

MW-01-14-15'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Mercury	0.81	0.18	29
Chromium	110	30	140
Acetone	100	0.05	0.061

MW-03-3-4'		
Parameter	PART 375 RRSCOs (mg/Kg)	Concentrations (mg/Kg)
Mercury	0.81	0.31
Lead	400	86
Benzo(a)anthracene	1	2.3
Benzo(a)pyrene	1	1.9
Benzo(b)fluorathene	1	2.3
Chrysene	3.9	1.9
Indeno(1,2,3-cd)pyrene	0.5	1

SB-01-11-12'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Mercury	0.81	0.18	0.97
Lead	400	63	240
Benzo(a)anthracene	1	1	3.8
Benzo(a)pyrene	1	1	3.3
Benzo(b)fluorathene	1	1	4
Benzo(k)fluorathene	3.9	0.8	1.4
Chrysene	3.9	1	3.5
Dibenzo(a,h)anthracene	0.33	0.33	0.56
Indeno(1,2,3-cd)pyrene	0.5	0.5	2

SB-04-11-12'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Mercury	0.81	0.18	0.7
Lead	400	63	370
Zinc	10000	109	120
Benzo(a)anthracene	1	1	3
Benzo(a)pyrene	1	1	2.6
Benzo(b)fluorathene	1	1	3.1
Benzo(k)fluorathene	3.9	0.81	0.95
Chrysene	3.9	1	2.7
Dibenzo(a,h)anthracene	0.33	0.33	0.44
Indeno(1,2,3-cd)pyrene	0.5	0.5	1.5
Acetone	100	0.05	0.063

MW-02-15-16'				
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	CP-51	Concentrations (mg/Kg)
Mercury	0.81	0.18	NA	2
Aluminum	NA	NA	NA	6,500
Lead	400	63	NA	290
Naphthalene	100	12	NA	14
Benzene	4.8	0.06	0.06	0.4
Ethylbenzene	41	1	1	27
Isopropylbenzene	NA	NA	2.3	7.7
Xylenes (Total)	100	0.26	0.26	46

MW-03-11-11.5'				
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	CP-51	Concentrations (mg/Kg)
Benzene	4.8	0.06	0.06	0.17
n-Propylbenzene	100	3.9	3.9	7.6
Xylenes (Total)	100	0.26	0.26	1.1

MW-02-18-18.5'				
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	CP-51	Concentrations (mg/Kg)
Benzene	4.8	0.06	0.06	2.1
Ethylbenzene	41	1	1	1.3
Xylenes (Total)	100	0.26	0.26	3.8

LEGEND

- SOIL BORING
- MONITORING WELL
- EXISTING BUILDING
- RRSCO — RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVE
- mg/Kg — MILLIGRAMS PER KILOGRAM

0 30 60
SCALE IN FEET

River Avenue Management

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3 Aerial Way, Syosset, New York

SAMPLE LOCATION PLAN WITH SOIL DATA
NORTHERN SITE AREA
110 EAST 149TH STREET
BRONX, NY

SCALE: AS SHOWN | DATE: 12/2014 | FIGURE: 6A

J:\14-063-1231 Monadnock - E. 149th Bx P2\CAD\110 E 149 ST SOIL SAMPLE.DWG, 12/9/2014 10:02:04 AM, AMK

N

SB-06-2.0-4.0'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Barium	400	350	5,500
Chromium	110	30	920
Lead	400	63	7,000
Zinc	10000	109	6100
p,p'-DDE	NA	0.0033	0.0049
p,p'-DDT	NA	0.0033	0.017
Benzo(a)anthracene	1	1	1.8
Benzo(a)pyrene	1	1	1.8
Benzo(b)fluorathene	1	1	2.6
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.85

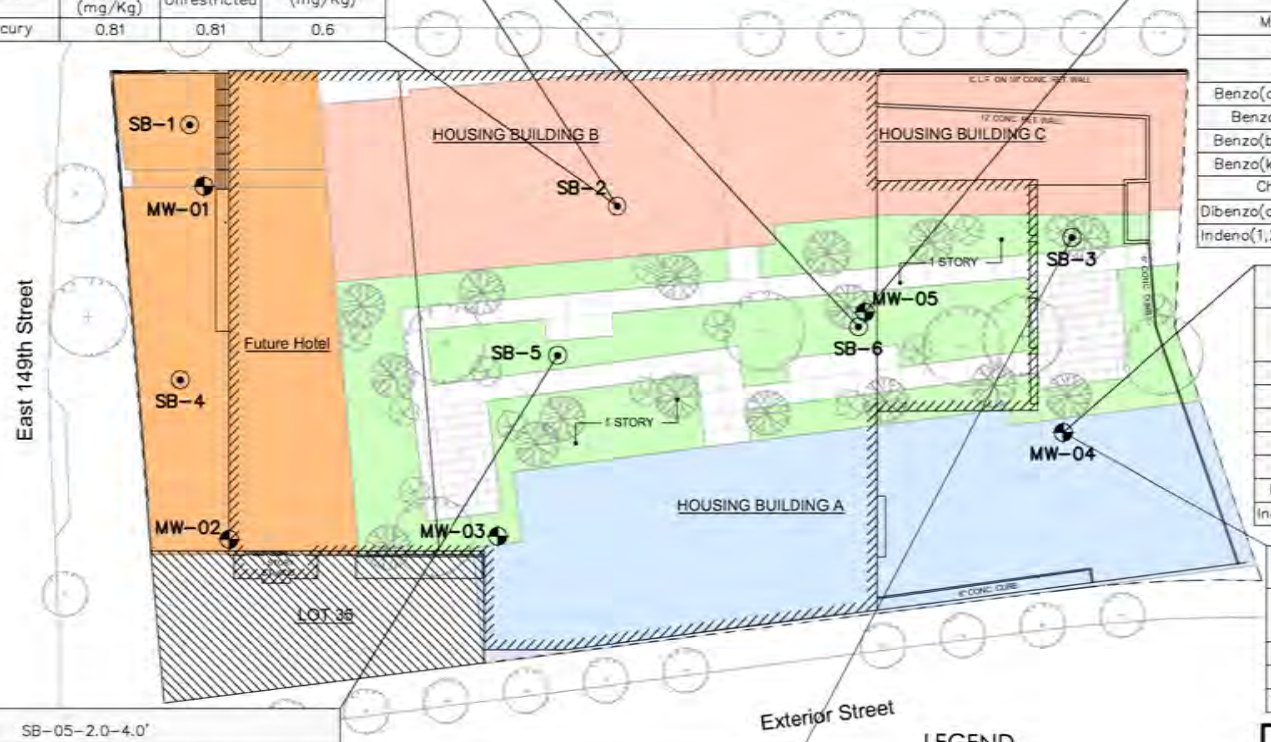
SB-02-0-2.0'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Mercury	0.81	0.81	0.5
Lead	400	63	140
Zinc	10000	109	110

SB-02-5.0-7.0'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Mercury	0.81	0.81	0.6

MW-05-2.0-4.0'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Mercury	0.81	0.18	0.81
Lead	270	63	220
Zinc	10000	109	200
Benzo(a)anthracene	1	1	8.9
Benzo(a)pyrene	1	1	5.9
Benzo(b)fluorathene	1	1	8.2
Benzo(k)fluorathene	3.9	0.8	2.3
Chrysene	3.9	1	7.2
Dibenzo(a,h)anthracene	0.33	0.35	1.1
Indeno(1,2,3-cd)pyrene	0.5	0.5	3.1

MW-04-0-2.0'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Mercury	0.81	.18	1.6
Copper	270	50	52
Lead	400	63	280
Zinc	10000	109	200
p,p'-DDT	NA	0.0033	0.0039
Benzo(b)fluorathene	1	1	1.1
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.6

MW-04-2.0-4.0'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Mercury	0.81	0.18	0.79
p,p'-DDT	NA	0.0033	0.0054
Methylene Cholride	0.5	0.05	0.068



SB-05-2.0-4.0'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Mercury	0.81	0.18	0.21
Copper	270	50	64
Zinc	10000	109	150
p,p'-DDT	NA	0.0033	0.0086
Benzo(a)anthracene	1	1	9.7
Benzo(a)pyrene	1	1	8.1
Benzo(b)fluorathene	1	1	9.3
Benzo(k)fluorathene	3.9	0.8	3.3
Chrysene	3.9	1	8.2
Dibenzo(a,h)anthracene	0.33	0.33	1.3
Indeno(1,2,3-cd)pyrene	0.5	0.5	4.8

SB-03-2.0-4.0'			
Parameter	PART 375 RRSCOs (mg/Kg)	PART 375 Unrestricted	Concentrations (mg/Kg)
Mercury	0.81	0.81	0.63
Lead	400	63	280
Zinc	10000	109	140

LEGEND

- SOIL BORING
- MONITORING WELL
- EXISTING BUILDING
- RRSCO RESTRICTED RESIDENTIAL SOIL CLEANUP OBJECTIVE
- mg/Kg MILLIGRAMS PER KILOGRAM

0 30 60
SCALE IN FEET

River Avenue Management

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3 Aerial Way, Syosset, New York

SAMPLE LOCATION PLAN WITH SOIL DATA CENTRAL AND SOUTHERN SITE AREA

110 EAST 149TH STREET
BRONX, NY

SCALE: AS SHOWN | DATE: 12/2014 | FIGURE: 6B

J:\14-063-1231 Monadnock - E. 149th Bx P2\CAD\110 E 149 ST GW SAMPLE.DWG, 12/9/2014 10:02:43 AM, AMK

MW-1 UNFILTERED		
Parameter	TOGS (µg/L)	Concentrations (µg/L)
Chromium	50	240
Copper	200	270
Iron	300	98,000
Manganese	300	1,600
Nickel	100	110
Sodium	20,000	280,000
Lead	25	240

MW-1 FILTERED		
Parameter	TOGS (µg/L)	Concentrations (µg/L)
Iron	300	1,900
Manganese	300	2,300
Sodium	20,000	230,000

MW-2 UNFILTERED		
Parameter	TOGS (µg/L)	Concentrations (µg/L)
Iron	300	22,000
Manganese	300	2,200
Sodium	20,000	220,000
Arsenic	25	40
Phenol	1	4.2
Benzene	1	140
m&p-Xylenes	5	73
o-Xylene	5	6.6
Toluene	5	9.5

MW-2 FILTERED		
Parameter	TOGS (µg/L)	Concentrations (µg/L)
Manganese	300	800
Sodium	20,000	360,000

MW-3 UNFILTERED		
Parameter	TOGS (µg/L)	Concentrations (µg/L)
Iron	300	29,000
Manganese	300	2,000
Sodium	20,000	130,000
Lead	25	78
Benzene	1	52
Ethylbenzene	5	5.3
Isopropylbenzene	5	110
m&p-Xylenes	5	23
o-Xylene	5	6.1
Toluene	5	7.4

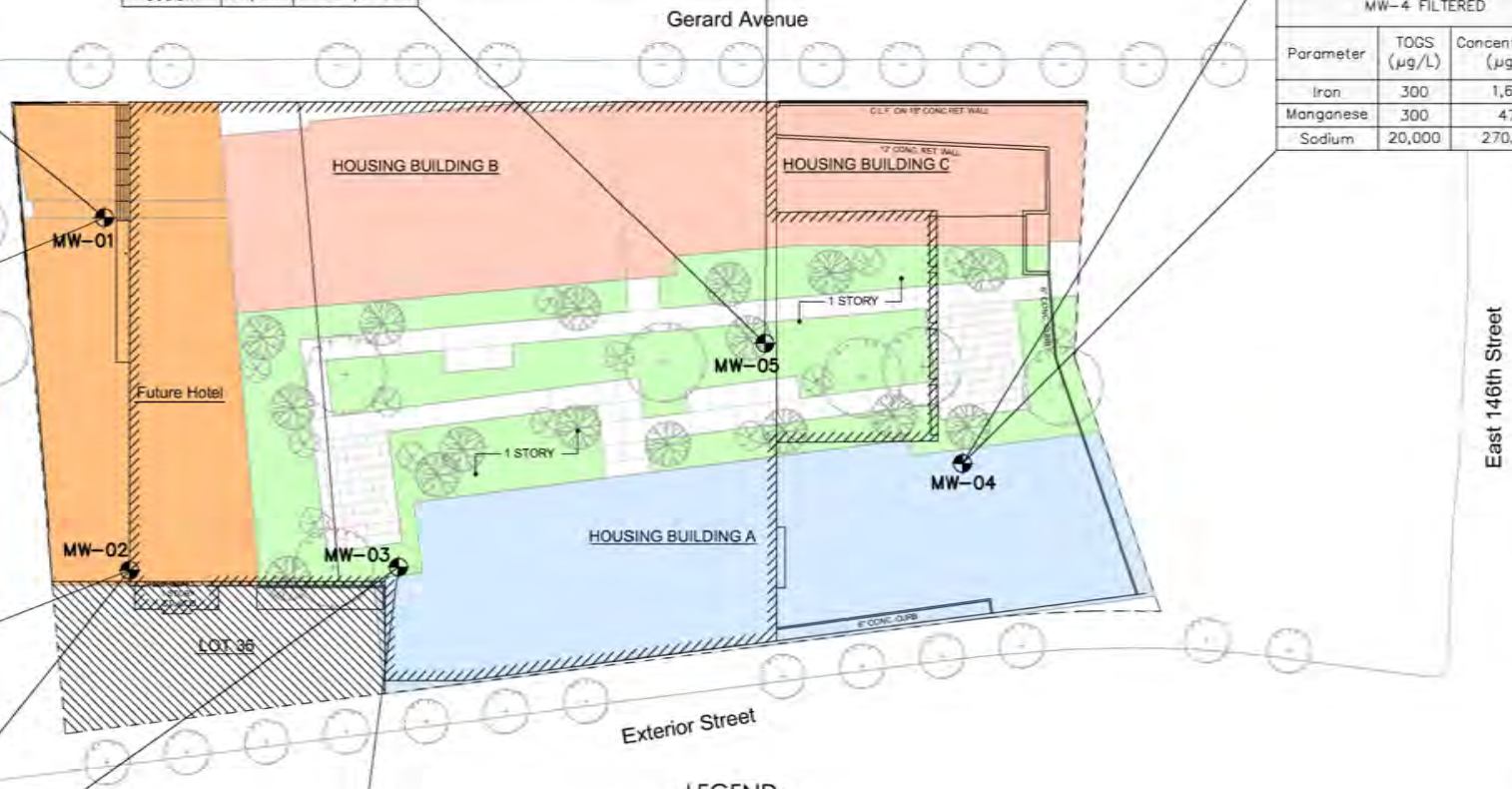
MW-3 FILTERED		
Parameter	TOGS (µg/L)	Concentrations (µg/L)
Iron	300	6,600
Manganese	300	1,800
Sodium	20,000	120,000

MW-5 UNFILTERED		
Parameter	TOGS (µg/L)	Concentrations (µg/L)
Iron	300	680
Manganese	300	1,200
Sodium	20,000	240,000

MW-5 FILTERED		
Parameter	TOGS (µg/L)	Concentrations (µg/L)
Manganese	300	1,100
Sodium	20,000	230,000

MW-4 UNFILTERED		
Parameter	TOGS (µg/L)	Concentrations (µg/L)
Iron	300	4,800
Manganese	300	460
Sodium	20,000	260,000

MW-4 FILTERED		
Parameter	TOGS (µg/L)	Concentrations (µg/L)
Iron	300	1,600
Manganese	300	470
Sodium	20,000	270,000



LEGEND

- MONITORING WELL
- EXISTING BUILDING
- U UNFILTERED
- F FILTERED
- TOGS NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF WATER TECHNICAL AND OPERATIONAL GUIDANCE SERIES (1.1.1)
- µg/L MICROGRAMS PER LITER

0 30 60
SCALE IN FEET

River Avenue Management

LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

SAMPLE LOCATION PLAN WITH GROUNDWATER DATA
110 EAST 149TH STREET
BRONX, NY

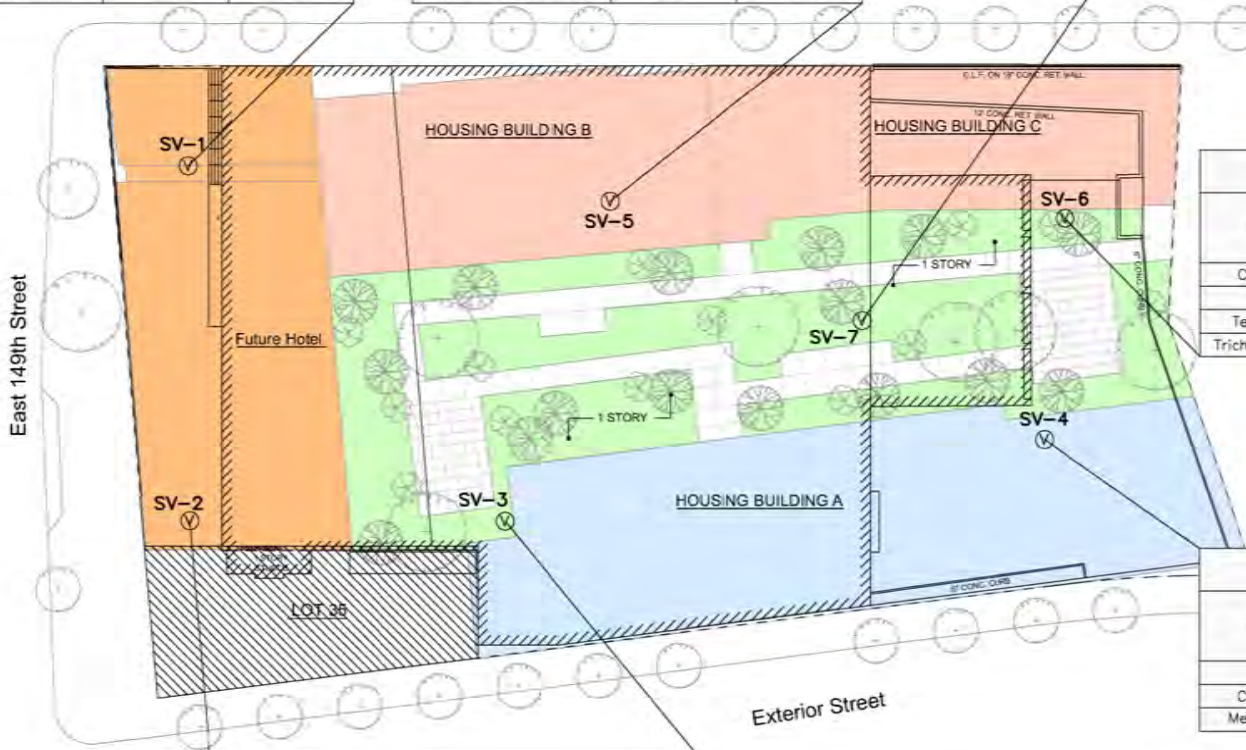
SCALE: AS SHOWN | DATE: 12/2014 | FIGURE: 7

J:\14-063-1231 Monadnock - E. 149th Bx P2\CAD\110 E 149 ST VAPOR SAMPLE.DWG, 12/9/2014 10:02:18 AM, AMK

SV-1		
Parameter	Air Guideline Values Derived by the NYSDOH ($\mu g/m^3$)	Concentrations ($\mu g/m^3$)
1,2,4-Trimethylbenzene	NA	2.95
Benzene	NA	3.74
Carbon disulfide	NA	4.76
Chloroform	NA	14.6
Methylene chloride	60	3.15
Tetrachloroethene	100	5.49

SV-5		
Parameter	Air Guideline Values Derived by the NYSDOH ($\mu g/m^3$)	Concentrations ($\mu g/m^3$)
Acetone	NA	1.76
Carbon disulfide	NA	22.8
Chloroform	NA	21.3
Methylene chloride	60	2.64
Tetrachloroethene	100	56
Trichlorofluoromethane	NA	12.1

SV-7		
Parameter	Air Guideline Values Derived by the NYSDOH ($\mu g/m^3$)	Concentrations ($\mu g/m^3$)
Acetone	NA	3.14
Carbon disulfide	NA	5.11
Chloroform	NA	3.03
Methylene chloride	60	2.56
Trichlorofluoromethane	NA	17.2



SV-6		
Parameter	Air Guideline Values Derived by the NYSDOH ($\mu g/m^3$)	Concentrations ($\mu g/m^3$)
Carbon disulfide	NA	19
Chloroform	NA	10.4
Tetrachloroethene	100	32.7
Trichlorofluoromethane	NA	3.37

SV-4		
Parameter	Air Guideline Values Derived by the NYSDOH ($\mu g/m^3$)	Concentrations ($\mu g/m^3$)
Acetone	NA	26.6
Carbon disulfide	NA	13.7
Methylene chloride	60	6.41

SV-2		
Parameter	Air Guideline Values Derived by the NYSDOH ($\mu g/m^3$)	Concentrations ($\mu g/m^3$)
1,2,4-Trimethylbenzene	NA	146,000
1,2-Dichloroethane	NA	6,000
Benzene	NA	19,400
Ethylbenzene	NA	87,900
Toluene	NA	6,580
Xylenes (m&p)	NA	103,000
Xylenes (o)	NA	2,140

SV-3		
Parameter	Air Guideline Values Derived by the NYSDOH ($\mu g/m^3$)	Concentrations ($\mu g/m^3$)
1,2-Dichloroethane	NA	1,380
Methylene chloride	60	559

LEGEND

Ⓥ SOIL VAPOR POINT

EXISTING BUILDING

$\mu g/m^3$ MICROGRAMS PER CUBIC METER

0 30 60

SCALE IN FEET

River Avenue Management

LiRo Engineers, Inc.
3 Aerial Way, Syosset, New York

SAMPLE LOCATION PLAN WITH SOIL VAPOR DATA

110 EAST 149TH STREET
BRONX, NY

SCALE: AS SHOWN | DATE: 12/2014 | FIGURE: 8

TABLES

TABLE 1 Summary of Sampling and Analysis

110 East 149th Street
Bronx, New York

Sample Location	Approximate Existing Grade	Building / Proposed Base Floor Elevation	Sampling Depth	AOC / Rationale	Sample Matrix	Analytical Parameters
Soil						
SB-01	19.5	Hotel / 4.5	6.5' - 7'	UST Area / Potential Spill	Soil/Fill	CP-51 VOCs and SVOCs
SB-01	19.5	Hotel / 4.5	11' - 12'	UST Area / Refusal	Soil/Fill	TCL/TAL
SB-02	13	Housing Building B / 10.8	0' - 2'	Floor Drain / Characterization	Soil/Fill	TCL/TAL
SB-02	13	Housing Building B / 10.8	5' - 7'	Floor Drain / future sub-slab excavation	Soil/Fill	TCL/TAL
SB-03	9	Housing Building C / 10.8	2' - 4'	Trench Drain / future sub-slab condition	Soil/Fill	TCL/TAL
SB-04	19.75	Hotel / 4.5	11' - 12'	UST Area / Refusal	Soil/Fill	TCL/TAL
SB-05	13	Parking / 13	2' - 4'	OER Request / Future sub-slab condition	Soil/Fill	TCL/TAL
SB-06	13	Parking / 13	2' - 4'	OER Request / Future sub-slab condition	Soil/Fill	TCL/TAL
MW-01	19.6	Hotel / 4.5	0' - 2'	UST Area / Potential spill	Soil/Fill	TCL/TAL
MW-01	19.6	Hotel / 4.5	14' - 15'	UST Area / future sub-slab condition	Soil/Fill	TCL/TAL
MW-02	17.6	Hotel / 4.5	15' - 16'	Off-site source / future sub-slab condition	Soil/Fill	TCL/TAL
MW-02	17.6	Hotel / 4.5	18' - 18.5'	Off-site source / petroleum migration	Soil/Fill	CP-51 VOCs and SVOCs
MW-03	13	Housing Building A / 13	3' - 4'	Off-site source / future sub-slab condition	Soil/Fill	TCL/TAL
MW-03	13	Housing Building A / 13	11' -11.5'	Off-site source / petroleum migration	Soil/Fill	CP-51 VOCs and SVOCs
MW-04	9.8	Housing Building A / 13	0' - 2'	Trench Drain / future sub-slab condition	Soil/Fill	TCL/TAL
MW-04	9.8	Housing Building A / 13	2' - 4'	Trench Drain / future sub-slab condition	Soil/Fill	TCL/TAL
MW-05	12.9	Parking / 13	2' - 4'	Future sub-slab condition	Soil/Fill	TCL/TAL
Groundwater			**Screen Setting**			
MW-01	19.6	Hotel / 4.5	13'-23'	UST Area / Groundwater	Groundwater	TCL/TAL (including dissolved metals)
MW-02	17.6	Hotel / 4.5	14'-24'	Off-site source / Groundwater	Groundwater	TCL/TAL (including dissolved metals)
MW-03	13	Housing Building A / 13	4'-14'	Off-site source / Groundwater	Groundwater	TCL/TAL (including dissolved metals)
MW-04	9.8	Housing Building A / 13	4'-14'	Trench Drain / Groundwater	Groundwater	TCL/TAL (including dissolved metals)
MW-05	12.9	Parking / 13	5.5-15.5	OER Request / Groundwater	Groundwater	TCL/TAL (including dissolved metals)
Soil Vapor Points						
SV-01	19.6	Hotel / 4.5	14' - 15'	UST Area / Soil Vapor	Soil Vapor	VOCs (TO-15)
SV-02	17.6	Hotel / 4.5	13' - 15'	Off-site source / future sub-slab condition	Soil Vapor	VOCs (TO-15)
SV-03	13	Housing Building A / 13	8' - 10'	Off-site source / future sub-slab condition	Soil Vapor	VOCs (TO-15)
SV-04	9.8	Housing Building A / 13	4' - 5'	Off-site source / future sub-slab condition	Soil Vapor	VOCs (TO-15)
SV-05	13	Housing Building B / 10.8	5' - 7'	OER Request / Floor Drain / Soil vapor condition	Soil Vapor	VOCs (TO-15)
SV-06	9	Housing Building B / 10.8	4' - 6'	Trench Drain / Soil Vapor condition	Soil Vapor	VOCs (TO-15)
SV-07	13	Parking / 13	4' - 6'	OER Request / Soil vapor condition	Soil Vapor	VOCs (TO-15)

Elevations and depths in feet
TCL/TAL includes VOCs, SVOCs, Pesticides, PCBs, and metals

Table 2 - Groundwater Monitoring Data

110 East 149th Street
Bronx, New York

Well Designation	Date	Well Elevation (feet)	Depth to Water (feet)	Water Elevation (feet)
MW-01	10/13/14	19.65	18.52	1.13
MW-02	10/13/14	17.55	17.18	0.37
MW-03	10/13/14	12.99	11.66	1.33
MW-04	10/13/14	9.80	9.10	0.70
MW-05	10/13/14	12.94	11.92	1.02

Notes:
1. All depths are presented in feet.
2. Groundwater elevations are presented in feet as referenced to NAVD 1988 datum.
3. Elevation survey data provided by Control Point Associates, Inc.

Table 3 - Soil Analytical Data - VOCs

110 East 149th Street
Bronx, New York

CLIENT ID:	Part 375 Restricted - Restricted Residential	Part 375 Unrestricted	CP-51 Table 2 - Gasoline Contaminated Soils	*SB-01-6.5-7.0'	SB-01-11-12'	SB-02-0-2.0'	SB-02-5.0-7.0'	SB-03-2.0-4.0'	SB-04-11-12'	SB-05-2.0-4.0'	SB-06-2.0-4.0'	MW-01-0-2.0'	MW-01-14-15'	MW-02-15'-16'	DUPLICATE-SOIL	*MW-02-18-18.5'	MW-03-3'-4'	*MW-03-11'-11.5'	MW-04-0-2.0'	MW-04-2.0-4.0'	MW-05-2.0-4.0'
LAB ID:				AC81071-001	AC81071-002	AC81143-002	AC81143-003	AC81143-001	AC81071-005	AC81143-006	AC81143-008	AC81071-003	AC81071-004	AC81154-001	AC81154-003	AC81154-002	AC81144-001	AC81144-002	AC81143-004	AC81143-005	AC81143-007
COLLECTION DATE:				9/24/2014	9/24/2014	9/26/2014	9/26/2014	9/26/2014	9/25/2014	9/26/2014	9/26/2014	9/25/2014	9/25/2014	9/30/2014	9/30/2014	9/30/2014	9/29/2014	9/29/2014	9/26/2014	9/26/2014	9/26/2014
SAMPLE MATRIX:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
SAMPLE UNITS:				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Analyte	mg/Kg	mg/Kg	mg/Kg																		
Volatiles																					
1,1,1-Trichloroethane	100	0.68	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,1,2,2-Tetrachloroethane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,1,2-Trichloroethane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,1-Dichloroethane	26	0.27	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,1-Dichloroethene	100	0.33	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,2,3-Trichlorobenzene	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,2,4-Trichlorobenzene	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,2,4-Trimethylbenzene	52	3.6	3.6	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.84	NA	0.54	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,2-Dibromoethane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,2-Dichlorobenzene	100	1.1	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,2-Dichloroethane	3.1	0.02	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,2-Dichloropropane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,3,5-Trimethylbenzene	52	8.4	8.4	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.18	NA	0.19	NA	NA	NA
1,3-Dichlorobenzene	49	2.4	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,4-Dichlorobenzene	13	1.8	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,4-Dioxane	13	0.1	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2-Butanone	100	0.12	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2-Hexanone	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
4-Isopropyltoluene	NA	NA	10	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.5	NA	ND	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Acetone	100	0.05	NS	NA	0.023	ND	ND	ND	**0.063**	ND	ND	**0.1**	**0.061**	ND	ND	NA	0.033	NA	ND	ND	ND
Benzene	4.8	0.06	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	***0.4***	***0.17***	***2.1***	ND	***0.17***	ND	ND	ND
Bromochloromethane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Bromodichloromethane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Bromoform	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Bromomethane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Carbon disulfide	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Carbon tetrachloride	2.4	0.76	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Chlorobenzene	100	1.1	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Chloroethane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Chloroform	49	0.37	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Chloromethane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
cis-1,2-Dichloroethene	100	0.25	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
cis-1,3-Dichloropropene	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Cyclohexane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4	3.6	NA	ND	NA	ND	ND	ND
Dibromochloromethane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Dichlorodifluoromethane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Ethylbenzene	41	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	***27***	***36***	***1.3***	0.0039	0.33	ND	ND	ND
Isopropylbenzene	NA	NA	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	*7.7*	*9.5*	1.3	0.0014	2.3	ND	ND	ND
m&p-Xylenes	NA	NA	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	43	53	3.5	0.0069	0.81	ND	ND	ND
Methyl Acetate	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Methylcyclohexane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	45	44	NA	ND	NA	ND	ND	ND
Methylene chloride	100	0.05	NS	NA	0.019	0.041	0.012	0.031	0.048	0.029	0.032	0.049	0.024	ND	ND	NA	0.031	NA	0.022	**0.068**	0.028
Methyl-tert-butyl ether	100	0.93	0.93	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Naphthalene	100	12	12	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7	NA	0.68	NA	NA	NA
n-Butylbenzene	100	12	12	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.98	NA	7.8	NA	NA	NA
n-Propylbenzene	100	3.9	3.9	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7	NA	***7.6***	NA	NA	NA
o-Xylene	NA	NA	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	3.3	0.33	ND	0.26	ND	ND	ND
sec-Butylbenzene	100	11	11	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.53	NA	2.2	NA	NA	NA
Styrene	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
tert-Butylbenzene	100	5.9	5.9	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	0.3	NA	NA	NA
Tetrachloroethene	19	1.3	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Toluene	100	0.7	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.62	0.54	0.69	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	100	0.19	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
trans-1,3-Dichloropropene	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Trichloroethene	21	0.47	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Trichlorofluoromethane	NA	NA	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Vinyl chloride	0.9	0.02	NS	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Xylenes (Total)	100	0.26	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	***46***	***56.3***	***3.8***	0.0069	***1.1***	ND	ND	ND

Notes:
Part 375 Restricted - Restricted Residential - New York Department of Environmental Conservation (NYSDEC) 6 NYCRR 375-6 Remedial Program Soil Clean-up Objectives (SCOs), December 14, 2006, Restricted Use - Restricted Residential
Part 375 Unrestricted - NYSDEC 6 NYCRR 375-6 Remedial Program SCOs December 14, 2006, Unrestricted Use
CP-51 SCOs - Table 2 - Soil Cleanup Levels (SCLs) for Gasoline Contaminated Soils - NYSDEC, October 21, 2010
*These samples were analyzed for New York State Department of Environmental Conservation (NYSDEC) CP-51 – Soil Cleanup Guidance (CP-51) (October 21, 2010) List VOCs only.
mg/kg - milligrams per kilograms
NA - Not Applicable or Not Analyzed
ND - Non Detect
E - Analyte whose concentration exceeds the calibration range.
The duplicate sample was a duplicate of the soil sample collected from MW-02 from 15-16 ft bgs.

Highlighted indicates an exceedance of Part 375 Restricted - Restricted Residential SCOs.
Bold indicates an exceedance of Part 375 Unrestricted SCOs.
Italicized indicates an exceedance of CP-51 Table 2 SCLs.

Table 4 - Soil Analytical Data - SVOCs

110 East 149th Street
Bronx, New York

CLIENT ID:	Part 375 Restricted - Restricted Residential	Part 375 Unrestricted	*SB-01-6.5-7.0'	SB-01-11-12'	SB-02-0-2.0'	SB-02-5.0-7.0'	SB-03-2.0-4.0'	SB-04-11-12'	SB-05-2.0-4.0'	SB-06-2.0-4.0'	MW-01-0-2.0'	MW-01-14-15'	MW-02-15'-16'	DUPLICATE-SOIL	*MW-02-18-18.5'-	MW-03-3'-4'	*MW-03-11'-11.5'	MW-04-0-2.0'	MW-04-2.0-4.0'	MW-05-2.0-4.0'
LAB ID:			AC81071-001	AC81071-002	AC81143-002	AC81143-003	AC81143-001	AC81071-005	AC81143-006	AC81143-008	AC81071-003	AC81071-004	AC81154-001	AC81154-003	AC81154-002	AC81144-001	AC81144-002	AC81143-004	AC81143-005	AC81143-007
COLLECTION DATE:			9/24/2014	9/24/2014	9/26/2014	9/26/2014	9/26/2014	9/25/2014	9/26/2014	9/26/2014	9/25/2014	9/25/2014	9/30/2014	9/30/2014	9/30/2014	9/29/2014	9/29/2014	9/26/2014	9/26/2014	9/26/2014
SAMPLE MATRIX:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
SAMPLE UNITS:			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Analyte	mg/Kg	mg/Kg																		
SemiVolatiles																				
1,1'-Biphenyl	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2,3,4,6-Tetrachlorophenol	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2,4,5-Trichlorophenol	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2,4,6-Trichlorophenol	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2,4-Dichlorophenol	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2,4-Dimethylphenol	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2,4-Dinitrophenol	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2,4-Dinitrotoluene	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2,6-Dinitrotoluene	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2-Chloronaphthalene	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2-Chlorophenol	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2-Methylnaphthalene	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	7.7	NA	ND	NA	ND	ND	ND
2-Methylphenol	100	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2-Nitroaniline	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
2-Nitrophenol	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
3&4-Methylphenol	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
3,3'-Dichlorobenzidine	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
3-Nitroaniline	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
4,6-Dinitro-2-methylphenol	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
4-Bromophenyl-phenylether	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
4-Chloro-3-methylphenol	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
4-Chloroaniline	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
4-Chlorophenyl-phenylether	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
4-Nitroaniline	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
4-Nitrophenol	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Acenaphthene	100	20	0.41	0.3	ND	ND	ND	0.39	2	ND	0.29	ND	ND	ND	NA	0.29	NA	ND	ND	1.8
Acenaphthylene	100	100	ND	ND	ND	ND	ND	0.074	ND	ND	ND	ND	ND	ND	NA	ND	NA	0.078	ND	ND
Acetophenone	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Anthracene	100	100	1.2	0.82	ND	ND	0.22	0.84	5	ND	0.87	0.071	ND	ND	NA	0.74	NA	0.16	ND	6.2
Atrazine	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Benzaldehyde	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Benzo[a]anthracene	1	1 c	**4**	**3.8**	0.83	0.15	0.78	**3**	**9.7**	**1.8**	**2.9**	0.23	0.28	ND	NA	**2.3**	NA	0.87	0.16	**8.9**
Benzo[a]pyrene	1	1 c	**3.2**	**3.3**	0.75	0.14	0.74	**2.6**	**8.1**	**1.8**	**2.5**	0.21	ND	ND	NA	**1.9**	NA	0.85	0.15	**5.9**
Benzo[b]fluoranthene	1	1 c	**3.9**	**4**	0.92	0.17	0.93	**3.1**	**9.3**	**2.6**	**2.9**	0.25	0.27	ND	NA	**2.3**	NA	**1.1**	0.19	**8.2**
Benzo[g,h,i]perylene	100	100	2.2	2.4	0.72	0.11	0.57	1.7	5.8	1	1.9	0.16	ND	ND	NA	1.2	NA	0.8	0.12	3
Benzo[k]fluoranthene	3.9	0.8 c	**1.1**	**1.4**	0.28	0.054	0.29	**0.95**	**3.3**	0.77	**1.4**	0.074	ND	ND	NA	0.62	NA	0.29	0.069	**2.3**
bis(2-Chloroethoxy)methane	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
bis(2-Chloroethyl)ether	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
bis(2-Chloroisopropyl)ether	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
bis(2-Ethylhexyl)phthalate	NA	NA	NA	ND	ND	0.065	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	0.097	ND
Butylbenzylphthalate	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Caprolactam	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Carbazole	NA	NA	NA	0.4	ND	ND	ND	0.27	0.95	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	1.4
Chrysene	3.9	1 c	**3.3**	**3.5**	0.78	0.14	0.75	**2.7**	**8.2**	**2.1**	**2.4**	0.19	0.21	ND	NA	**1.9**	NA	0.75	0.18	**7.2**
Dibenzo[a,h]anthracene	0.33	0.33 b	**0.57**	**0.56**	ND	ND	ND	**0.44**	**1.3**	ND	**0.45**	0.044	ND	ND	NA	0.29	NA	0.17	ND	**1.1**
Dibenzofuran	59	7	NA	0.14	ND	ND	ND	0.16	1	ND	0.14	0.023	0.062	ND	NA	0.12	NA	0.021	ND	1.2
Diethylphthalate	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Dimethylphthalate	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Di-n-butylphthalate	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	0.043	ND	ND
Di-n-octylphthalate	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Fluoranthene	100	100 a	7.7	7.7	1.2	0.24	1.2	5.9	23	2.4	5.4	0.38	0.58	0.79	NA	4.1	NA	1.4	0.24	21
Fluorene	100	30	ND	0.22	ND	ND	ND	0.26	1.5	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	1.9
Hexachlorobenzene	1.2	0.33 b	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Hexachlorobutadiene	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Hexachlorocyclopentadiene	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Hexachloroethane	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.5	0.5 c	**1.7**	**2**	0.47	0.089	0.44	**1.5**	**4.8**	**0.85**	**1.6**	0.13	ND	ND	NA	**1**	NA	**0.6**	0.1	**3.1**
Isophorone	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Naphthalene	100	12	NA	ND	ND	ND	ND	0.058	0.36	ND	ND	0.025	**14**	**19**	NA	0.072	NA	0.032	ND	0.15
Nitrobenzene	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
N-Nitroso-di-n-propylamine	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
N-Nitrosodiphenylamine	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Pentachlorophenol	6.7	0.8 b	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Phenanthrene	100	100	5	4.5	0.68	0.15	0.9	4.5	23	1.3	3.7	0.34	0.63	0.92	NA	3.4	NA	0.73	0.11	22.0 E
Phenol	100	0.33 b	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND
Pyrene	100	100	7.3	7.7	1.3	0.26	1.3	5.9	22	2.7	5.6	0.39	0.61	0.92	NA	5.3	NA	1.3	0.25	16

Notes:
Part 375 Restricted - Restricted Residential - New York Department of Environmental Conservation (NYSDEC) 6 NYCRR 375-6 Remedial Program Soil Clean-up Objectives (SCOs), December 14, 2006, Restricted Use - Restricted Residential
Part 375 Unrestricted - NYSDEC 6 NYCRR 375-6 Remedial Program SCOs December 14, 2006, Unrestricted Use
mg/kg - milligrams per kilograms
NA - Not Applicable or Not Analyzed
ND - Non Detect
E - Analyte whose concentration exceeds the calibration range.
The duplicate sample was a duplicate of the soil sample collected from MW-02 from 15-16 ft bgs.

Highlighted indicates an exceedance of Part 375 Restricted - Restricted Residential SCOs.
Bold indicates an exceedance of Part 375 Unrestricted SCOs.

Table 5 - Soil Analytical Data - Metals

110 East 149th Street
Bronx, New York

CLIENT ID:	Part 375 Restricted - Restricted Residential	Part 375 Unrestricted	SB-01-11-12'	SB-02-0-2.0'	SB-02-5.0-7.0'	SB-03-2.0-4.0'	SB-04-11-12'	SB-05-2.0-4.0'	SB-06-2.0-4.0'	MW-01-0-2.0'	MW-01-14-15'	MW-02-15'-16'	DUPLICATE-SOIL	MW-03-3'-4'	MW-04-0-2.0'	MW-04-2.0-4.0'	MW-05-2.0-4.0'
LAB ID:			AC81071-002	AC81143-002	AC81143-003	AC81143-001	AC81071-005	AC81143-006	AC81143-008	AC81071-003	AC81071-004	AC81154-001	AC81154-003	AC81144-001	AC81143-004	AC81143-005	AC81143-007
COLLECTION DATE:			9/24/2014	9/26/2014	9/26/2014	9/26/2014	9/25/2014	9/26/2014	9/26/2014	9/25/2014	9/25/2014	9/30/2014	9/30/2014	9/29/2014	9/26/2014	9/26/2014	9/26/2014
SAMPLE MATRIX:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
SAMPLE UNITS:			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Analyte	mg/Kg	mg/Kg															
Metals																	
Mercury	0.81	0.18 c	**0.97**	**0.5**	**0.6**	**0.63**	**0.7**	**0.21**	**0.77**	**0.46**	**29**	**2**	**2.2**	**0.31**	**1.6**	**0.79**	**0.81**
Aluminum	NA	NA	4,100	6,100	8,300	5,600	6,300	8,000	7,100	13,000	8,400	6,500	7,500	6,100	5,400	5,600	6,600
Arsenic	16	13	ND	ND	ND	ND	ND	7.9	ND	6.2	ND	ND	ND	ND	4.5	ND	5
Barium	400	350 c	36	96	57	76	220	48	**5,500**	160	100	130	180	100	140	63	150
Calcium	NA	NA	4,500	17,000	7,600	15,000	9,000	22,000	13,000	19,000	19,000	5,400	9,200	11,000	15,000	3,300	18,000
Chromium	110	30 c	9.5	17	15	16	20	11	**920**	**35**	20	25	25	13	19	11	14
Cobalt	NA	NA	3.5	6	5.2	4.9	5.2	26	19	9.3	8.3	5.3	6.3	5.6	5.1	4.1	24
Copper	270	50	48	30	22	42	32	**64**	**120**	43	32	42	**56**	24	**52**	18	37
Iron	NA	NA	9,600	13,000	13,000	11,000	14,000	15,000	19,000	26,000	17,000	13,000	14,000	12,000	12,000	10,000	15,000
Lead	400	63 c	**240**	**140**	42	**280**	**370**	22	**7,000**	470	**140**	**290**	**320**	**86**	**280**	53	**220**
Magnesium	NA	NA	3,600	5,300	6,200	5,200	5,500	3,000	6,500	7,900	6,000	3,600	4,100	3,800	2,700	2,400	5,800
Manganese	2000	1600 c	190	250	330	260	250	330	220	360	1,200	230	270	160	210	320	250
Nickel	310	30	8.1	15	21	14	13	37	14	24	30	20	25	15	13	9.6	14
Potassium	NA	NA	630	1,600	930	1,100	1,900	960	2,500	4,200	2,200	970	1,300	2,100	1000	1000	1,200
Sodium	NA	NA	ND	ND	ND	290	ND	ND	300	ND	ND	ND	ND	ND	360	ND	ND
Thallium	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	17	21	ND	ND	ND	ND
Vanadium	NA	NA	14	31	21	26	32	17	27	52	27	120	130	24	28	15	22
Zinc	10000	109 c	83	**110**	46	**140**	**120**	**150**	**6,100**	**130**	92	ND	ND	37	**200**	42	**200**
Antimony	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34	0.29	ND	ND	ND	ND
Beryllium	72	7.2	0.23	ND	0.43	0.22	0.28	0.37	0.33	ND	0.34	ND	ND	ND	0.23	0.24	0.28
Cadmium	4.3	2.5 c	ND	ND	ND	ND	0.74	ND	**3.8**	ND	ND	ND	ND	ND	0.92	ND	ND
Selenium	180	3.9 c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**29**	ND	ND	ND	ND
Silver	180	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23	ND	ND

Notes:
Part 375 Restricted - Restricted Residential - New York Department of Environmental Conservation (NYSDEC) 6 NYCRR 375-6 Remedial Program Soil Clean-up Objectives (SCOs), December 14, 2006, Restricted Use - Restricted Residential
Part 375 Unrestricted - NYSDEC 6 NYCRR 375-6 Remedial Program SCOs December 14, 2006, Unrestricted Use
mg/kg - milligrams per kilograms
NA - Not Applicable or Not Analyzed
ND - Non Detect
The duplicate sample was a duplicate of the soil sample collected from MW-02 from 15-16 ft bgs.

Highlighted indicates an exceedance of Part 375 Restricted - Restricted Residential SCOs.
Bold indicates an exceedance of Part 375 Unrestricted SCOs.

Table 6 - Soil Analytical Data - Pesticides

110 East 149th Street
Bronx, New York

CLIENT ID:	Part 375 Restricted - Restricted Residential	Part 375 Unrestricted	SB-01-11-12'	SB-02-0-2.0'	SB-02-5.0-7.0'	SB-03-2.0-4.0'	SB-04-11-12'	SB-05-2.0-4.0'	SB-06-2.0-4.0'	MW-01-0-2.0'	MW-01-14-15'	MW-02-15'-16'	DUPLICATE-SOIL	MW-03-3'-4'	MW-04-0-2.0'	MW-04-2.0-4.0'	MW-05-2.0-4.0'
LAB ID:			AC81071-002	AC81143-002	AC81143-003	AC81143-001	AC81071-005	AC81143-006	AC81143-008	AC81071-003	AC81071-004	AC81154-001	AC81154-003	AC81144-001	AC81143-004	AC81143-005	AC81143-007
COLLECTION DATE:			9/24/2014	9/26/2014	9/26/2014	9/26/2014	9/25/2014	9/26/2014	9/26/2014	9/25/2014	9/25/2014	9/30/2014	9/30/2014	9/29/2014	9/26/2014	9/26/2014	9/26/2014
SAMPLE MATRIX:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
SAMPLE UNITS:			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Analyte	mg/Kg	mg/Kg															
Pesticides																	
Aldrin	0.097	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.48	0.02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	0.36	0.036	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	NA	0.094	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	100	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	0.2	0.005 c	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	24	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	24	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	24	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	11	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC	1.3	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	2.1	0.042	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDD	NA	0.0033 b	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDE	NA	0.0033 b	ND	ND	ND	ND	ND	ND	**0.0049**	ND	ND	ND	ND	ND	ND	ND	ND
p,p'-DDT	NA	0.0033 b	ND	ND	ND	ND	ND	**0.0086**	**0.017**	ND	ND	ND	ND	ND	**0.0039**	**0.0054**	ND
Toxaphene	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Part 375 Restricted - Restricted Residential - New York Department of Environmental Conservation (NYSDEC) 6 NYCRR 375-6 Remedial Program Soil Clean-up Objectives (SCOs), December 14, 2006, Restricted Use - Restricted Residential
Part 375 Unrestricted - NYSDEC 6 NYCRR 375-6 Remedial Program SCOs December 14, 2006, Unrestricted Use
mg/kg - milligrams per kilograms
NA - Not Applicable or Not Analyzed
ND - Non Detect
The duplicate sample was a duplicate of the soil sample collected from MW-02 from 15-16 ft bgs.

Highlighted indicates an exceedance of Part 375 Restricted - Restricted Residential SCOs.
Bold indicates an exceedance of Part 375 Unrestricted SCOs.

Table 7 - Soil Analytical Data - PCBs

110 East 149th Street
Bronx, New York

CLIENT ID:	Part 375 Restricted - Restricted Residential	Part 375 Unrestricted	SB-01-11-12'	SB-02-0-2.0'	SB-02-5.0-7.0'	SB-03-2.0-4.0'	SB-04-11-12'	SB-05-2.0-4.0'	SB-06-2.0-4.0'	MW-01-0-2.0'	MW-01-14-15'	MW-02-15'-16'	DUPLICATE-SOIL	MW-03-3'-4'	MW-04-0-2.0'	MW-04-2.0-4.0'	MW-05-2.0-4.0'
LAB ID:			AC81071-002	AC81143-002	AC81143-003	AC81143-001	AC81071-005	AC81143-006	AC81143-008	AC81071-003	AC81071-004	AC81154-001	AC81154-003	AC81144-001	AC81143-004	AC81143-005	AC81143-007
COLLECTION DATE:			9/24/2014	9/26/2014	9/26/2014	9/26/2014	9/25/2014	9/26/2014	9/26/2014	9/25/2014	9/25/2014	9/30/2014	9/30/2014	9/29/2014	9/26/2014	9/26/2014	9/26/2014
SAMPLE MATRIX:			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
SAMPLE UNITS:			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Analyte	mg/Kg	mg/Kg															
PCBs																	
Aroclor (Total)	1	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1016	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1260	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1262	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1268	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
Part 375 Restricted - Restricted Residential - New York Department of Environmental Conservation (NYSDEC) 6 NYCRR 375-6 Remedial Program Soil Clean-up Objectives (SCOs), December 14, 2006, Restricted Use - Restricted Residential
Part 375 Unrestricted - NYSDEC 6 NYCRR 375-6 Remedial Program SCOs December 14, 2006, Unrestricted Use
mg/kg - milligrams per kilograms
NA - Not Applicable or Not Analyzed
ND - Non Detect
The duplicate sample was a duplicate of the soil sample collected from MW-02 from 15-16 ft bgs.

Highlighted indicates an exceedance of Part 375 Restricted - Restricted Residential SCOs.
Bold indicates an exceedance of Part 375 Unrestricted SCOs.

Table 8 - Groundwater Analytical Data - VOCs

110 East 149th Street
Bronx, New York

CLIENT ID:	**NY TOGS Water Quality Standards/Guidance Values - Class GA**	MW-01	MW-02	MW-03	MW-04	MW-05	TB 10/2
LAB ID:		AC81399-001	AC81399-003	AC81399-005	AC81399-009	AC81399-007	AC81399-011
COLLECTION DATE:		10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014
SAMPLE MATRIX:		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
SAMPLE UNITS:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Analyte	ug/L						
Volatiles							
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NA	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	ND	ND	ND	ND	ND	ND
2-Butanone	50	ND	ND	ND	ND	ND	ND
2-Hexanone	50	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NA	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	ND	ND	ND	ND
Benzene	1	ND	140	52	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND	ND
Bromoform	NA	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND
Carbon disulfide	NA	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	cis+trans = 0.4	ND	ND	ND	ND	ND	ND
Cyclohexane	NA	ND	95	270	ND	ND	ND
Dibromochloromethane	50	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	5.3	ND	ND	ND
Isopropylbenzene	5	ND	ND	110	ND	ND	ND
m&p-Xylenes	5	ND	73	23	ND	ND	ND
Methyl Acetate	NA	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NA	ND	85	540	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether	NA	ND	ND	ND	1.5	ND	ND
o-Xylene	5	ND	6.6	6.1	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	9.5	7.4	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	cis+trans = 0.4	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND
Xylenes (Total)	NA	ND	79.6	29.1	ND	ND	ND

Notes:
NY TOGS - New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1)
ug/L - micrograms per liter
NA - Not Applicable or Not Analyzed
ND - Non Detect

Highlighted indicates an exceedance of NYSDEC TOGS Water Quality Standards/Guidance Values - Class GA.

Table 9 - Groundwater Analytical Data - SVOCs

110 East 149th Street
Bronx, New York

CLIENT ID:	**NY TOGS Water Quality Standards/Guidance Values - Class GA**	MW-01	MW-02	MW-03	MW-04	MW-05
LAB ID:		AC81399-001	AC81399-003	AC81399-005	AC81399-009	AC81399-007
COLLECTION DATE:		10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014
SAMPLE MATRIX:		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
SAMPLE UNITS:		ug/L	ug/L	ug/L	ug/L	ug/L
Analyte	ug/L					
SemiVolatiles						
1,1'-Biphenyl	5	ND	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	5	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	NA	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1	ND	ND	ND	ND	ND
2,4-Dimethylphenol	50	ND	2.8	ND	ND	ND
2,4-Dinitrophenol	10	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND	ND
2-Chloronaphthalene	10	ND	ND	ND	ND	ND
2-Chlorophenol	1	ND	ND	ND	ND	ND
2-Methylnaphthalene	NA	ND	ND	ND	ND	ND
2-Methylphenol	1	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND
2-Nitrophenol	1	ND	ND	ND	ND	ND
3&4-Methylphenol	NA	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NA	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	NA	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	NA	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND
4-Chlorophenyl-phenylether	NA	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND
4-Nitrophenol	1	ND	ND	ND	ND	ND
Acenaphthene	20	ND	ND	ND	ND	ND
Acenaphthylene	NA	ND	ND	ND	ND	ND
Acetophenone	NA	ND	ND	ND	ND	ND
Anthracene	50	ND	ND	ND	ND	ND
Atrazine	7.5	ND	ND	ND	ND	ND
Benzaldehyde	NA	ND	ND	ND	ND	ND
Benzo[a]anthracene	NA	ND	ND	ND	ND	ND
Benzo[a]pyrene	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	0.002	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	NA	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	0.002	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	5	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	1	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	5	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	5	ND	ND	ND	ND	ND
Butylbenzylphthalate	50	ND	ND	ND	ND	ND
Caprolactam	NA	ND	ND	ND	ND	ND
Carbazole	NA	ND	ND	ND	ND	ND
Chrysene	0.002	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	NA	ND	ND	ND	ND	ND
Dibenzofuran	NA	ND	ND	ND	ND	ND
Diethylphthalate	NA	ND	ND	ND	ND	ND
Dimethylphthalate	NA	ND	ND	ND	ND	ND
Di-n-butylphthalate	50	ND	ND	ND	ND	ND
Di-n-octylphthalate	50	ND	ND	ND	ND	ND
Fluoranthene	50	ND	ND	ND	ND	ND
Fluorene	50	ND	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	0.002	ND	ND	ND	ND	ND
Isophorone	50	ND	ND	ND	ND	ND
Naphthalene	10	ND	5.2	ND	ND	ND
Nitrobenzene	0.4	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	NA	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	50	ND	ND	ND	ND	ND
Pentachlorophenol	1	ND	ND	ND	ND	ND
Phenanthrene	50	ND	ND	ND	ND	ND
Phenol	1	ND	4.2	ND	ND	ND
Pyrene	50	ND	ND	ND	ND	ND

Notes:
NY TOGS - New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1)
ug/L - micrograms per liter
NA - Not Applicable or Not Analyzed
ND - Non Detect

Highlighted indicates an exceedance of NYSDEC TOGS Water Quality Standards/Guidance Values - Class GA.

Table 10 - Groundwater Analytical Data - Metals

110 East 149th Street
Bronx, New York

CLIENT ID:	**NY TOGS Water Quality Standards/Guidance Values - Class GA**	MW-01 Unfiltered	MW-01 Filtered	MW-02 Unfiltered	MW-02 Filtered	MW-03 Unfiltered	MW-03 Filtered	MW-04 Unfiltered	MW-04 Filtered	MW-05 Unfiltered	MW-05 Filtered
LAB ID:		AC81399-001	AC81399-002	AC81399-003	AC81399-004	AC81399-005	AC81399-006	AC81399-009	AC81399-010	AC81399-007	AC81399-008
COLLECTION DATE:		10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014
SAMPLE MATRIX:		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
SAMPLE UNITS:		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Analyte	ug/L										
Metals											
Mercury	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	NA	63,000	ND	220	ND	1,800	ND	500	ND	ND	ND
Barium	1000	440	150	260	64	370	200	310	290	81	70
Calcium	NA	250,000	310,000	300,000	230,000	180,000	170,000	130,000	130,000	150,000	140,000
Chromium	50	240	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	200	270	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	300	98,000	1,900	22,000	ND	29,000	6,600	4,800	1,600	680	ND
Magnesium	NA	51,000	57,000	55,000	36,000	69,000	64,000	19,000	20,000	52,000	49,000
Manganese	300	1,600	2,300	2,200	800	2,000	1,800	460	470	1,200	1,100
Nickel	100	110	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium	NA	26,000	33,000	31,000	21,000	30,000	27,000	13,000	14,000	6,400	5,800
Silver	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	20,000	280,000	230,000	220,000	360,000	130,000	120,000	260,000	270,000	240,000	230,000
Vanadium	NA	170	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	NA	330	ND	ND	83	63	ND	ND	ND	ND	ND
Antimony	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	25	19	16	40	2.2	7.4	3.1	7.7	4.4	2.4	ND
Beryllium	3	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	NA	32	ND	ND	ND	2.4	ND	ND	ND	ND	ND
Lead	25	240	ND	6.5	ND	78	ND	20	ND	10	ND
Selenium	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
NY TOGS - New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1)
ug/L - micrograms per liter
NA - Not Applicable or Not Analyzed
ND - Non Detect
U - Unfiltered
F - Filtered

Highlighted indicates an exceedance of NYSDEC TOGS Water Quality Standards/Guidance Values - Class GA.

Table 11 - Groundwater Analytical Data - Pesticides

110 East 149th Street
Bronx, New York

CLIENT ID:	**NY TOGS Water Quality Standards/Guidance Values - Class GA**	MW-01	MW-02	MW-03	MW-04	MW-05
LAB ID:		AC81399-001	AC81399-003	AC81399-005	AC81399-009	AC81399-007
COLLECTION DATE:		10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014
SAMPLE MATRIX:		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
SAMPLE UNITS:		ug/L	ug/L	ug/L	ug/L	ug/L
Analyte	ug/L					
Pesticides						
a-Chlordane	NA	ND	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.01	ND	ND	ND	ND	ND
beta-BHC	0.04	ND	ND	ND	ND	ND
delta-BHC	0.04	ND	ND	ND	ND	ND
Dieldrin	0.004	ND	ND	ND	ND	ND
Endosulfan I	NA	ND	ND	ND	ND	ND
Endosulfan II	NA	ND	ND	ND	ND	ND
Endosulfan Sulfate	NA	ND	ND	ND	ND	ND
Endrin	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	5	ND	ND	ND	ND	ND
Endrin Ketone	5	ND	ND	ND	ND	ND
gamma-BHC	0.05	ND	ND	ND	ND	ND
Heptachlor	0.04	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.03	ND	ND	ND	ND	ND
Methoxychlor	35	ND	ND	ND	ND	ND
p,p'-DDD	0.3	ND	ND	ND	ND	ND
p,p'-DDE	0.2	ND	ND	ND	ND	ND
p,p'-DDT	0.2	ND	ND	ND	ND	ND
Toxaphene	0.06	ND	ND	ND	ND	ND
y-Chlordane	NA	ND	ND	ND	ND	ND

Notes:
NY TOGS - New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1)
ug/L - micrograms per liter
NA - Not Applicable or Not Analyzed
ND - Non Detect
U - Unfiltered
F - Filtered

Highlighted indicates an exceedance of NYSDEC TOGS Water Quality Standards/Guidance Values - Class GA.

Table 12 - Groundwater Analytical Data - PCBs

110 East 149th Street
Bronx, New York

CLIENT ID:	**NY TOGS Water Quality Standards/Guidance Values - Class GA**	MW-01	MW-02	MW-03	MW-04	MW-05
LAB ID:		AC81399-001	AC81399-003	AC81399-005	AC81399-009	AC81399-007
COLLECTION DATE:		10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014
SAMPLE MATRIX:		Aqueous	Aqueous	Aqueous	Aqueous	Aqueous
SAMPLE UNITS:		ug/L	ug/L	ug/L	ug/L	ug/L
Analyte	ug/L					
PCBs						
Aroclor (Total)	0.09	ND	ND	ND	ND	ND
Aroclor-1016	NA	ND	ND	ND	ND	ND
Aroclor-1221	NA	ND	ND	ND	ND	ND
Aroclor-1232	NA	ND	ND	ND	ND	ND
Aroclor-1242	NA	ND	ND	ND	ND	ND
Aroclor-1248	NA	ND	ND	ND	ND	ND
Aroclor-1254	NA	ND	ND	ND	ND	ND
Aroclor-1260	NA	ND	ND	ND	ND	ND
Aroclor-1262	NA	ND	ND	ND	ND	ND
Aroclor-1268	NA	ND	ND	ND	ND	ND

Notes:
NY TOGS - New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1)
ug/L - micrograms per liter
NA - Not Applicable or Not Analyzed
ND - Non Detect

Highlighted indicates an exceedance of NYSDEC TOGS Water Quality Standards/Guidance Values - Class GA.

Table 13 - Soil Vapor Analytical Data - VOCs

110 East 149th Street
Bronx, New York

CLIENT ID:	Air Guideline Values Derived by the NYSDOH	SV-01	SV-02	SV-03	SV-04	SV-05	SV-06	SV-07
LAB ID:		1410994-007	1410994-001	1410994-006	1410994-002	1410994-005	1410994-003	1410994-004
COLLECTION DATE:		10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014	10/13/2014
SAMPLE MATRIX:		Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
SAMPLE UNITS:		ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3	ug/m^3
Analyte	ug/m^3							
Volatiles								
1,2,4-Trimethylbenzene	NA	2.95	146,000	ND	ND	ND	ND	ND
1,2-Dichloroethane	NA	ND	6,000	1,380	ND	ND	ND	ND
Acetone	NA	ND	ND	ND	26.6	1.76	ND	3.14
Benzene	NA	3.74	19,400	ND	ND	ND	ND	ND
Carbon disulfide	NA	4.76	ND	ND	13.7	22.8	19	5.11
Chloroform	NA	14.6	ND	ND	ND	21.3	10.4	3.03
Ethylbenzene	NA	ND	87,900	ND	ND	ND	ND	ND
Methylene chloride	60	3.15	ND	559	6.41	2.64	ND	2.56
Tetrachloroethene	100	5.49	ND	ND	ND	56	32.7	ND
Toluene	NA	ND	6,580	ND	ND	ND	ND	ND
Trichloroethene	5,000	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	NA	ND	ND	ND	ND	12.1	3.37	17.2
Xylenes (m&p)	NA	ND	103,000	ND	ND	ND	ND	ND
Xylenes (o)	NA	ND	2,140	ND	ND	ND	ND	ND

Notes:
The above table includes VOC detections and any parameters with a guideline value.
ug/m^3 = micrograms per cubic meter
NA - Not Applicable or Not Analyzed
ND - Non Detect
All results have a qualifier of D which means the results are for dilution.

Shaded - Analyte concentration exceeds Air Guideline Values derived by the NYSDOH.

APPENDIX 1

PHASE I ESA REPORT DATED AUGUST 21, 2012

Included on Attached CD

APPENDIX 2

GEOPHYSICAL SURVEY REPORT DATED JUNE 12, 2014

DIVERSIFIED GEOPHYSICS, INC.

Subsurface Geophysical Investigations 75 East 2nd Street, Mineola, NY 11501

(516) 326.0586 voice (516) 616.6194 fax

12 June 2014

Ms. Amy Hewson
LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, NY 14209

Re: **Site Geophysics -Former Strauss Meat And Fish** **Via Email**

Dear Mrs. Hewson:

On Wednesday, June 11th, 2014, Diversified Geophysics, Inc. (DGI) performed a geophysical investigation on the property known as the former Strauss Meat And Fish Market, located at 110 East 149th Street, in the Bronx, New York, 10451. DGI personnel met with Mr. Vladimir Ortiz (LiRo Project Engineer) and followed his directions throughout the investigation.

The purpose of this investigation was to locate any utilities, structures, or obstructions in the area of five (5) proposed boring locations, in advance of the drilling program. In addition, there were two areas of concern to be investigated: the area proximal to a vent pipe observed on the north exterior wall of the facility, and a two (2) foot square concrete pad, located adjacent to the back entry door to the building.

The geophysical investigation was comprised of a series of Ground Penetrating Radar (GPR) traverses and a site-wide radio frequency (RF) scan. GPR scans collect anomaly data which can be interpreted in real-time. The geometry of the anomalies located can assist in determining the type of subsurface object producing the anomaly. Linear anomalies can be interpreted to be buried utilities, conduits, trolley tracks, etc., if the return data has the appropriate signature. RF scans are made by using instrumentation that has a transmitter and receiver. The transmitter can be used to send electromagnetic waves of known frequencies along buried metallic conduits housing utilities, or through the utilities themselves. The receiver is used to trace the signal (audibly and/or graphically) and locate the direction of travel, in some cases, the depth of the utility below the surface. Receivers can also be used in stand-alone mode to detect frequencies in the range of 60Hz, often emitted by active electrical services in the United States. In addition, some RF instruments can detect frequencies emitted by gas and water services. These utilities absorb and radiate VLF radio waves. Both technologies, GPR and RF complement one another to provide the most useful data set necessary for the locating, tracing and characterization of subsurface anomalies.

A Ridgid® SeekTech SR-60 Pipe and Cable Locator was employed to detect radio frequency emissions from water, gas, active electric services and drainage plumbing. A 3M Dynatel® 2250M-iD Pipe and Cable Locater was used to trace frequencies induced into exposed, metallic utility sections, as well as subsurface linear anomalies located using GPR.

Ground Penetrating Radar (GPR) data was collected with Sensors and Software 250 MHz Noggin^{Plus} SmartCart®. The penetration depth for this investigation was set from zero (0) to ten (10) feet.

During this investigation, NogginPlus GPR traverse lines were made in sets that ran parallel and perpendicular to the footprint of the site in order to: clear the proposed boring locations of utilities; locate and delineate the long axis of the purported UST; and locate and trace any associated plumbing.

DGI

DIVERSIFIED GEOPHYSICS, INC.

Subsurface Geophysical Investigations 75 East 2nd Street, Mineola, NY 11501
(516) 326.0586 voice (516) 616.6194 fax

Results:

An initial reconnoiter of the exterior of the site revealed a UST vent pipe affixed to the north exterior wall of the building. During examination of the area using GPR to clear the proposed boring location, a strong linear anomaly occurring at depths between five (5) and six (6) feet below grade and having a length of approximately twelve (12) feet was located, and had an east to west trend. The transmitter box of the Dynatel® was connected to the vent pipe and the signal was traced toward the area of the linear anomaly located with the GPR. There was some discontinuity in the signal trace; however, subsequent use of the GPR confirmed the location of this trace, which ran parallel to the exterior wall of the building, before turning 90° to the north, and connecting with the east-west anomaly. Generally, burial depths of UST's average 2.5 to 3 feet below grade, however, the nature and extent of these two anomalies have the signature of the long-axis of a UST and associated plumbing. No fill or return lines could be located during examination of the interior, sub-grade boiler room; the areas surrounding the 12 foot long anomaly, or the adjacent area of sidewalk to the east of the fence-lined property.

A second proposed boring, located in the vicinity of the NW corner of the building was cleared for utilities and marked with paint on the asphalt. Subsurface telephone and hydraulic lines were located and traced to the west of this location, and marked with paint on the asphalt.

A second area of concern was a 4 square foot concrete platform in the rear of the facility that was thought to be a "dispenser island." Examination of the structure revealed four cut pieces of #3 reinforcement bar, and no evidence of above-ground or subsurface plumbing was observed. In addition, GPR and RF/EM scans did not reveal any subsurface structures or utilities in this area.

Three (3) additional proposed boring locations were chosen and marked on the asphalt surface of the back parking and loading area after surveying with GPR and RF/EM. A sewer vent and valve was located on the west exterior wall of the buildings south extension. A PVC conduit crossing beneath the elevated concrete platform to the east of the facility contained surveillance camera wiring, and was exposed in the western fascia of the platform.

Electric service to the tower sign located south of the SW corner of the facility adjacent to River Avenue was traced between the south wall of the facility and the tower column.

During an examination of the interior of the facility, the water, gas, and electric meters were located, as well as the sewer and communications services. The gas meter was located along the west interior wall (River Avenue), and service entered the building from this location. The water and sewer services entered the facility from Gerard Avenue, the water meter exposed along the east interior wall, and the 20 inch sewer main located approximately twenty (20) feet to the south, within a sub-grade vault. The primary electric service (meter) was located in the boiler room, which had an exterior wall fronting on Gerard Avenue. Cable and telephone services entered the facility through a conduit

Numerous floor drains were visible throughout the facility. Small (2.5 – 3 inch) brass inspection ports were located, but could not be opened. At first glance they appeared to be stick-ports, however, no additional evidence of interior UST's or associated plumbing was found.

Remnants of an unidentified structure on the interior floor (western side) just south of the gas service meter were observed, and a yellow diamond-shaped sign was affixed to the floor, immediately to the north.

The linear anomaly having the signature of a UST (located in the western portion of the parking area adjacent to East 149th Street) and the yellow, diamond-shaped insignia and accompanying former structure (interior) may warrant further investigation.

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_____

Andrew D. Silver
Vice President/Engineering Geologist
Diversified Geophysics, Inc.

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Figure 1. Satellite View Of Site Showing AOI's In Red

Google Earth

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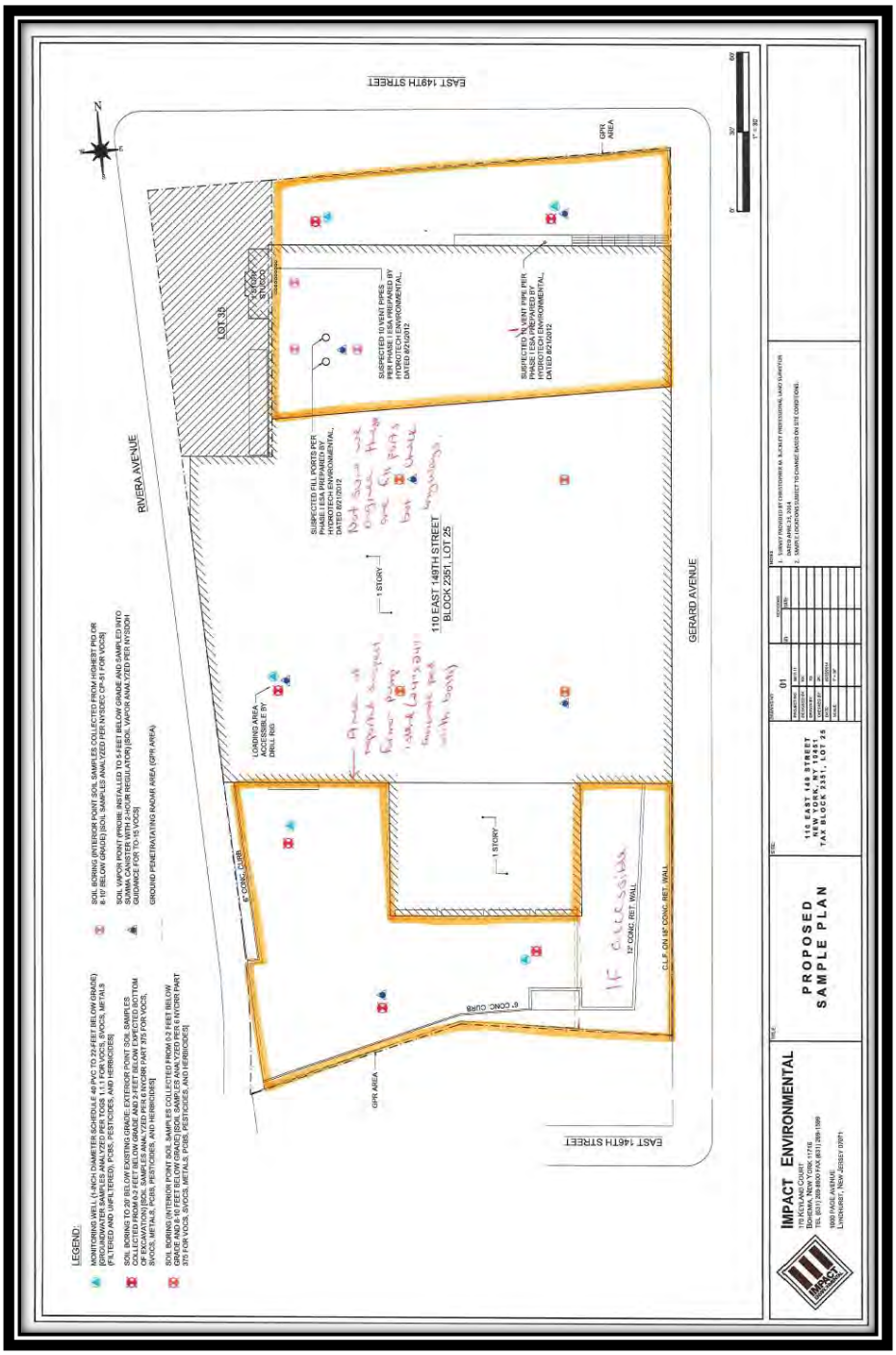

Figure 2.

Boring Location Plan Indicating Sampling Locations And AOI's

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Photographs

DIVERSIFIED GEOPHYSICS, INC.

Subsurface Geophysical Investigations

75 East 2nd Street, Mineola, NY 11501

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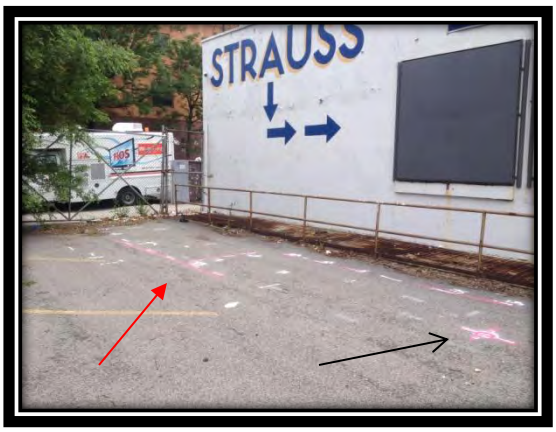

Photo 1. View SE Of Linear Anomaly (Red) And Proposed Exterior Boring Location (Black)

Photo 2. Vent Line (Red Arrow) And Boring Shown In Photo 1.

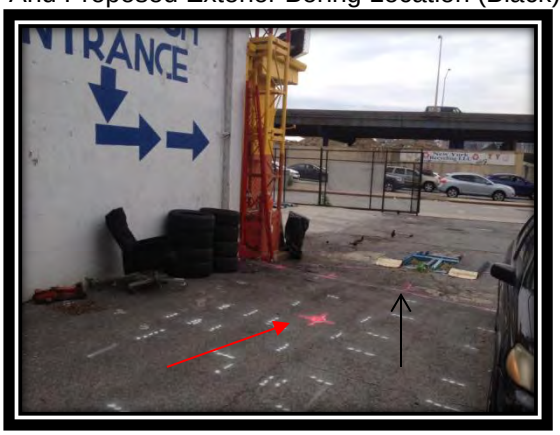

Photo 3. View SW Of Proposed Exterior Boring (Red Arrow) And Telephone Service (Black Arrow)

Photo 4. View Of Concrete "Dispenser Island" Showing Severed Pieces Of Re-bar Painted White

Photo 5. View NW Showing Electric Service To Sign Column (Red) And Proposed Boring Location

Photo 6. View East Of Proposed Boring Location

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Photo 7. View East Of Proposed Boring Location Showing Fuel Pump And UST Fill/Return Lines

Photo 8. View Of Interior Structure On West Wall Showing Cut Piping (Floor And Wall) And Adjacent Signage

Photo 9. View Yellow Diamond-Shaped Signage

APPENDIX 3

HEALTH AND SAFETY PLAN

Included on Attached CD

APPENDIX 4

SOIL BORING LOGS AND PURGE LOGS

WELL PURGE LOG

LiRo Engineers, Inc.

Project Title: DDC-REMEDIATION-PW348-52

Well Number: TWP -01

Site Name: 110 East, 149th Street Bronx

Date: 10/13/14

Staff: F.I.

Roadbox:	Good	Broken	
Concrete:	Good	Broken	
J-Plug:	Good	Broken	
Bolts:	None	Replaced	
Comments:			

A). Total casing and screen length in feet: 22.84

B). Water level below top of casing in feet: 18.52

C). Number of feet standing water [A-B]: 4.32

D). Volume of water/foot of casing (gal.): 0.04

E). Volume of water in casing (gal. [CxD]: 0.172

F). Volume of water to remove (gal.) [Ex3]: 0.518

G). Volume of water actually removed (gal.): 1.5 GLN

Well ID	Volume (gal/ft)
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PURGE DATA

Volume Purged (L)	pH (SU)	Conductivity (uS/m)	Dissolved Oxygen (mg/L)	Temperature (°C)	Salinity	ORP (mV)	Turbidity (NTU)	Appearance
500 ml	6.30	1.80	6.92	17.45	0.1	88	999	very cloudy Brown
1000 ml	6.70	1.82	5.39	18.65	0.1	-13	999	"
1500 ml	6.74	1.84	5.84	18.75	0.1	-57	999	"
SAMPLE								

Comments:

Sampling ID: 149-TWP-1-GRAB **TIME:** 9:00 AM

Sampling Parameters: TCL/TAL (INCLUDING DISSOLVED METALS)

10/13/14

WELL PURGE LOG

LiRo Engineers, Inc.

Project Title: DDC-REMEDIATION-PW348-52

Well Number: TWP - 02

Site Name: 110 East, 149th

Date: 10/13/14

Staff: FI

Roadbox:	Good	Broken	
Concrete:	Good	Broken	
J-Plug:	Good	~~Broken~~	
Bolts:	~~None~~	Replaced	
Comments:			

A). Total casing and screen length in feet: 24.69

B). Water level below top of casing in feet: 17.18

C). Number of feet standing water [A-B]: 7.51

D). Volume of water/foot of casing (gal.): 0.04

E). Volume of water in casing (gal. [CxD]: 0.28

F). Volume of water to remove (gal.) [Ex3]: 0.86

G). Volume of water actually removed (gal.): 1.5 GLNS

Well ID	Volume (gal/ft)
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PURGE DATA

Volume Purged (mL)	pH (SU)	Conductivity (uS/m)	Dissolved Oxygen (mg/L)	Temperature (°C)	Salinity	ORP (mV)	Turbidity (NTU)	Appearance
500	6.31	2.12	8.31	18.36	0.1	36	999	Very Cloudy Dark Brown
1000	6.62	2.11	9.17	18.31	0.1	-97	999	"
1500	6.85	2.13	8.70	18.58	0.1	-123	999	"
SAMPLE								

Comments:

Water has slight odor. Very little sheen present

Sampling ID: 149-TWP-2-GTAB

TIME:

Sampling Parameters:

TCL/TAL (INCLUDING DISSOLVED METALS)

WELL PURGE LOG

LiRo Engineers, Inc.

Project Title: DDC-REMEDIATION-PW348-52

Well Number: TWP- 03

Site Name: 110 East 149th St. Bronx

Date: 10/13/14

Staff: FI

Roadbox:	Good	Broken	
Concrete:	Good	Broken	
J-Plug:	Good	Broken	
Bolts:	None	Replaced	
Comments:			

A). Total casing and screen length in feet: 13.84

B). Water level below top of casing in feet: 11.66

C). Number of feet standing water [A-B]: 2.18

D). Volume of water/foot of casing (gal.): 0.04

E). Volume of water in casing (gal. [CxD]: 0.08

F). Volume of water to remove (gal.) [Ex3]: 0.26

G). Volume of water actually removed (gal.): 1.5 GLN.

Well ID	Volume (gal/ft)
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PURGE DATA

Volume Purged	pH (SU)	Conductivity (uS/m)	Dissolved Oxygen (mg/L)	Temperature (°C)	Salinity	ORP (mV)	Turbidity (NTU)	Appearance
500	6.69	1.61	9.40	18.21	0.1	-28	999	very cloudy Brown
1000	6.50	1.65	7.67	18.37	0.1	-79	999	"
1500	6.51	1.61	6.89	18.46	0.1	-94	999	"
SAMPLE								

Comments:

Water has strong Odor. Sheen was observed on water

Sampling ID: 149-TWP-3-GRAB

TIME:

Sampling Parameters:

TCL/TAL (INCLUDING DISSOLVED METALS)

WELL PURGE LOG

LiRo Engineers, Inc.

Project Title: DDC-REMEDIATION-PW348-52

Well Number: TWP-04

Site Name: 110 East 149th St. Bronx

Date: 10/13/14

Staff: EJ

Roadbox:	Good	Broken	
Concrete:	Good	Broken	
J-Plug:	Good	Broken	
Bolts:	None	Replaced	
Comments:			

A). Total casing and screen length in feet: 14.01

B). Water level below top of casing in feet: 9.10

C). Number of feet standing water [A-B]: 4.91

D). Volume of water/foot of casing (gal.): 0.04

E). Volume of water in casing (gal. [CxD]: 0.196

F). Volume of water to remove (gal.) [Ex3]: 0.58

G). Volume of water actually removed (gal.): 1.5 GLN

Well ID	Volume (gal/ft)
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PURGE DATA

Volume Purged mL	pH (SU)	Conductivity (uS/m)	Dissolved Oxygen (mg/L)	Temperature (°C)	Salinity	ORP (mV)	Turbidity (NTU)	Appearance
500 mL	6.65	1.41	7.54	19.88	0.1	-33	999	Very cloudy BLK
1000	6.55	1.40	6.20	20.58	0.1	-57	999	"
1500	6.69	1.45	8.48	20.09	0.1	-64	678	cloudy BLK
SAMPLE								

Comments:

Sampling ID: 149-TWP-4-GRAB

TIME:

Sampling Parameters:

TCL/TAL (INCLUDING DISSOLVED METALS)

WELL PURGE LOG

LiRo Engineers, Inc.

Project Title: DDC-REMEDIATION-PW348-52 Well Number: TWP - 05

Site Name: 110 East, 149th Street Bronx Date: 10/13/14

Staff: FI

Roadbox:	Good	Broken	
Concrete:	Good	Broken	
J-Plug:	Good	Broken	
Bolts:	None	Replaced	
Comments:			

A). Total casing and screen length in feet: 15.59

B). Water level below top of casing in feet: 11.92

C). Number of feet standing water [A-B]: 3-67

D). Volume of water/foot of casing (gal.): 0.04

E). Volume of water in casing (gal. [CxD]: 0.146

F). Volume of water to remove (gal.) [Ex3]: 0.44

G). Volume of water actually removed (gal.) 1.5 GLN

Well ID	Volume (gal/ft)
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PURGE DATA

Volume Purged	pH (SU)	Conductivity (uS/m)	Dissolved Oxygen (mg/L)	Temperature (°C)	Salinity	ORP (mV)	Turbidity (NTU)	Appearance
500	6.58	1.70	10.99	17.47	0.1	43	999	very cloudy Brown
1000	6.49	1.70	11.08	17.37	0.1	41	999	"
1500	6.68	1.68	10.91	17.49	0.1	31	880	"
SAMPLE								

Comments:

Sampling ID: 149-TWP-5-GRAB **TIME:**

Sampling Parameters: TCL/TAL (INCLUDING DISSOLVED METALS)

LiRo Engineers, Inc.

TEST BORING LOG

PROJECT: Ph II	South Bronx Family Residence Samaritan Village	**LOCATION:**	SB-01
CLIENT:	Monadnock Construction Inc.	**SHEET:**	**1 of 1**
BORING CONTRACTOR:	Warren George Inc.	**JOB NO.:**	
GROUNDWATER:	NA	**LOCATION:**	See Figure
		GROUND ELEVATION:	NA
		DATE STARTED:	September 24, 2014
		DATE FINISHED:	September 24, 2014
		CLEARING CREW:	Wayne
		GEOLOGIST:	Vladimir Ortiz
		REVIEWED BY:	

DATE	TIME	LEVEL	TYPE		CAS.	SAMPLER	TUBE
				TYPE	Direct Push Probe	Macro Core	
			NA	**DIA.**	2"		
				WT.	140		
				FALL	4		

DEPTH FEET	STRATA	SAMPLE "S" NO.	"N" NO.	BLOWS PER 6"	REC% RQD%	DESCRIPTION COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1		**MC1**			66%	Gray Dark Brown	Medium Dense	0'-4' FILL. Fine to medium sands and silt, some fill material (concrete, gravel and red brick) and fragmented/Blasted Rock (Schist).	FILL	Dry BG
4		**MC2**	S1		75%	Brown Gray	Medium Dense	4'-8' FILL. Fine to medium sands and fragmented/Blasted Rock (Schist).	FILL	Dry 1.7 ppm
8		**MC3**	S2		90%	Gray Black Light Brown	Medium Dense	8'-11' FILL. Fine to mediums sands and silt, some fragmented/Blasted Rock (Schist) and ash. 11'-12' SAND. Silty fine sands, trace gravel.	FILL SW	Dry BG
12								END OF BORING REFUSAL		
16										
20										
24										

COMMENTS: The boring was advanced to a total depth of 12' below ground surface (BGS).
No ground water was encountered.
S1 & S2 - Samples for laboratory analysis.

PROJECT NO.: 1
BORING NO.: SB-01

LiRo Engineers, Inc.

TEST BORING LOG

		LOCATION:	SB-02
PROJECT: Ph II	South Bronx Family Residence Samaritan Village	**SHEET:**	**1 of 1**
CLIENT:	Monadnock Construction Inc.	**JOB NO.:**	
BORING CONTRACTOR:	Warren George Inc.	**LOCATION:**	See Figure
GROUNDWATER:	NA	**GROUND ELEVATION:**	NA

DATE	**TIME**	**LEVEL**	**TYPE**	**TYPE**	**CAS.** Direct Push Probe	**SAMPLER** Macro Core	**TUBE**		
			NA	**DIA.**	2"			**DATE STARTED:**	September 24, 2014
				WT.	140			**DATE FINISHED:**	September 24, 2014
				FALL	4			**CLEARING CREW:**	Wayne
								GEOLOGIST:	Vladimir Ortiz
								REVIEWED BY:	

DEPTH FEET	STRATA	SAMPLE "S" NO.	SAMPLE "N" NO.	BLOWS PER 6"	REC% RQD%	DESCRIPTION COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1		**MC1**	S1		50%	Dark Brown	Medium Dense	0'-4' FILL. Fine to medium sand, some fill material (concrete, gravel, glass and brick)	FILL	Dry BG
4		**MC2**	S2		90%	Black, Brown Red	Medium Dense	4'-8' FILL. Same as above	FILL	Dry BG
8								END OF BORING		
12										
16										
20										
24										

COMMENTS: The boring was advanced to a total depth of 8' below ground surface (BGS).
No ground water was encountered.
S1 & S2 - Samples for laboratory analysis.

PROJECT NO.:
BORING NO.: **SB-02**

LiRo Engineers, Inc.

TEST BORING LOG

		LOCATION:	SB-03
PROJECT: Ph II	South Bronx Family Residence Samaritan Village	**SHEET:**	**1 of 1**
CLIENT:	Monadnock Construction Inc.	**JOB NO.:**	
BORING CONTRACTOR:	Warren George Inc.	**LOCATION:**	See Figure
GROUNDWATER:	NA	**GROUND ELEVATION:**	NA

DATE	**TIME**	**LEVEL**	**TYPE**	**TYPE**	**CAS.** Direct Push Probe	**SAMPLER** Macro Core	**TUBE**		
			NA	**DIA.**	2"			**DATE STARTED:**	September 26, 2014
				WT.				**DATE FINISHED:**	September 26, 2014
				FALL				**CLEARING CREW:**	Wayne
								GEOLOGIST:	Vladimir Ortiz
								REVIEWED BY:	

DEPTH FEET	SAMPLE STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% RQD%	DESCRIPTION COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1		**MC1**	S1		80%	Brown	Medium Dense	0'-4' FILL. Fine to medium sand, some fill material (gravel, brick)	FILL	Dry BG
4										
								END OF BORING		
8										
12										
16										
20										
24										

COMMENTS: The boring was advanced to a total depth of 4' below ground surface (BGS).
No ground water was encountered.
S1 - Sample for laboratory analysis.

PROJECT NO.:
BORING NO.: **SB-03**

LiRo Engineers, Inc.

TEST BORING LOG

		LOCATION:	SB-04
PROJECT: Ph II	South Bronx Family Residence Samaritan Village	**SHEET:**	**1 of 1**
CLIENT:	Monadnock Construction Inc.	**JOB NO.:**	
BORING CONTRACTOR:	Warren George Inc.	**LOCATION:**	See Figure
GROUNDWATER:	NA	**GROUND ELEVATION:**	NA

DATE	**TIME**	**LEVEL**	**TYPE**	**TYPE**	**CAS.** Direct Push Probe	**SAMPLER** Macro Core	**TUBE**		
			NA	**DIA.**	2"			**DATE STARTED:**	September 25, 2014
				WT.	140			**DATE FINISHED:**	September 25, 2014
				FALL	4			**CLEARING CREW:**	Wayne
								GEOLOGIST:	Eva Jakubowska
								REVIEWED BY:	

DEPTH FEET	STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1		**MC1**			100%	Brown	Medium Dense	0'-4' FILL. sand and silt, some fill material (concrete, gravel and red brick) and fragmented/Blasted Rock (Schist).	FILL	Dry BG
4		**MC2**			90%	Brown/red	Medium Dense	4'-8' FILL.same as above	FILL	Dry BG
8		**MC3**			80%	Brown Black	Medium Dense	8'-12' FILL. Same as above with some ash.	FILL	Dry BG
12			**S1**							
								REFUSAL AT 12 FT - END OF BORING		
16										
20										

COMMENTS: The boring was advanced to a total depth of 12' below ground surface (BGS).

S1- Sample for laboratory analysis.

PROJECT NO.:

BORING NO.: **SB-04**

LiRo Engineers, Inc.

TEST BORING LOG

		LOCATION:	SB-05
PROJECT: Ph II	South Bronx Family Residence Samaritan Village	**SHEET:**	**1 of 1**
CLIENT:	Monadnock Construction Inc.	**JOB NO.:**	
BORING CONTRACTOR:	Warren George Inc.	**LOCATION:**	See Figure
GROUNDWATER:	NA	**GROUND ELEVATION:**	NA

DATE	**TIME**	**LEVEL**	**TYPE**	**TYPE**	**CAS.** Direct Push Probe	**SAMPLER** Macro Core	**TUBE**		
			NA	**DIA.**	2"			**DATE STARTED:**	September 26, 2014
				WT.				**DATE FINISHED:**	September 26, 2014
				FALL				**CLEARING CREW:**	Wayne
								GEOLOGIST:	Vladimir Ortiz
								REVIEWED BY:	

DEPTH FEET	STRATA	SAMPLE "S" NO.	"N" NO.	BLOWS PER 6"	REC% RQD%	DESCRIPTION COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1		**MC1**	S1		50%	Black, Brown, Red	Medium Dense	0'-4' FILL. Fine to medium sand, some fill material (gravel, brick)	FILL	Dry BG
4										
								END OF BORING		
8										
12										
16										
20										
24										

COMMENTS: The boring was advanced to a total depth of 4' below ground surface (BGS).
No ground water was encountered.
S1 - Sample for laboratory analysis.

PROJECT NO.:
BORING NO.: **SB-05**

LiRo Engineers, Inc.

TEST BORING LOG

LOCATION:	MW-01		
PROJECT: Ph II	South Bronx Family Residence Samaritan Village	**SHEET:**	**1 of 1**
CLIENT:	Monadnock Construction Inc.	**JOB NO.:**	
BORING CONTRACTOR:	Warren George Inc.	**LOCATION:**	See Figure
GROUNDWATER:	NA	**GROUND ELEVATION:**	NA
DATE STARTED:	September 24, 2014	**DATE FINISHED:**	September 25, 2014
CLEARING CREW:	Wayne	**GEOLOGIST:**	Vladimir Ortiz/Eva Jakubowska
REVIEWED BY:			

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	TUBE
					Direct Push Probe	Macro Core	
			NA	DIA.	2"		
				WT.	140		
				FALL	4		

DEPTH FEET	STRATA	SAMPLE "S" NO.	"N" NO.	BLOWS PER 6"	REC% RQD%	DESCRIPTION COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1 / 4		MC1	S1		62%	Gray Dark Brown	Medium Dense	0'-4' FILL. Fine to medium sands and fill material (concrete, gravel and red brick), some fragmented/Blasted Rock (Schist).	FILL	Dry BG
8		MC2			70%	Gray Black	Medium Dense	4'-8' FILL. Fine to medium sands and fragmented/Blasted Rock (Schist), some ash	FILL	Dry BG
12		MC3			80%	Gray Light Brown Black	Medium Dense	8'-12' FILL. Fragmented/blasted Rock (Schist), some ash.	FILL	Dry BG
16		MC4		S2	80%	Brown	Medium Dense	12.5'-14' FILL. Fine to medium sands, some red Brick. 14'-16' FILL. Fine to medium sands and silt	FILL SW	Dry to Moist BG
20		MC5			100%	Brown Dark Gray Brown	Medium Dense	16 - 18.5' FILL. Fine to medium sands, some red Brick. 18.5 - 19" PEAT 19 - 20' SAND. Medium to coarse sand	FILL PT SP	wet BG
24		MC6			100%	Brown	Medium Dense	20 - 24' SAND. Fine to medium sand, trace silt	SW	wet BG
								END OF BORING		

COMMENTS: The boring was advanced to a total depth of 24' below ground surface (BGS).
ground water was encountered at 18.5' BGS.
1" PVC well installed with screen set from 13' to 23' BGS
S1 & S2 - Samples for laboratory analysis.

PROJECT NO.:
BORING NO.: **MW-01**

LiRo Engineers, Inc.

TEST BORING LOG

PROJECT: Ph II	South Bronx Family Residence Samaritan Village	**LOCATION:**	MW-02
CLIENT:	Monadnock Construction Inc.	**SHEET:**	**1 of 1**
BORING CONTRACTOR:	Warren George Inc.	**JOB NO.:**	
GROUNDWATER:	NA	**LOCATION:**	See Figure
		GROUND ELEVATION:	NA
		DATE STARTED:	September 30, 2014
		DATE FINISHED:	September 30, 2014
		CLEARING CREW:	Wayne
		GEOLOGIST:	Vladimir Ortiz
		REVIEWED BY:	

DATE	TIME	LEVEL	TYPE	TYPE	CAS.	SAMPLER	TUBE
					Direct Push Probe	Macro Core	
			NA	DIA.	2"		
				WT.	140		
				FALL	4		

DEPTH FEET	STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1		MC1			58%	Brown	Medium Dense	0'-4' FILL. Fine to medium sands and silt, some fill material (concrete, gravel and red brick).	FILL	Dry BG
4		MC2			50%	Gray Brown	Medium Dense	4'-8' FILL. Fine to medium sands and silt, some fill material (concrete and red brick) and fragmented/Blasted Rock (Schist)	FILL	Dry BG
8		MC3			87%	Gray Black	Medium Dense	8'-12' FILL. Fine to medium sand, some silt, fragmented/Blasted Rock (Schist), trace ash.	FILL	Dry 1.7 ppm
12		MC4	S1		66%	Gray Red	Medium Dense	12'-16' SAND. Fine to medium sands, some silt, trace wood (black stained).	SW	Moist 1427 ppm 1565 ppm 1154 ppm
16		MC5	S2		50%	Black	Loose	16'-20' FILL. Ash (black stained).	FILL	Moist to Wet 984 ppm 347 ppm 153 ppm
20		MC6			80%	Black Gray Red	Medium Dense	20'-21' FILL. Ash (black stained). 21'-22.5' SILT. Clayeiy silt, trace fine sands. 22.5'-24' SAND. Fine sands, trace medium sands and silt.	FILL SC SP	Wet 35.1 ppm 10.3 ppm BG
24								END OF BORING		

COMMENTS: The boring was advanced to a total depth of 25' bellow ground surface (BGS).
ground water was encountered at about 18.5' BGS.
1" PVC well installed with screen set from 14' to 24' BGS
S1 & S2 - Samples for laboratory analysis.

PROJECT NO.:
BORING NO.: **MW-02**

LiRo Engineers, Inc.

TEST BORING LOG

LOCATION:	MW-03		
PROJECT: Ph II	South Bronx Family Residence Samaritan Village	**SHEET:**	**1 of 1**
CLIENT:	Monadnock Construction Inc.	**JOB NO.:**	
BORING CONTRACTOR:	Warren George Inc.	**LOCATION:**	See Figure
GROUNDWATER:	NA	**GROUND ELEVATION:**	NA

DATE	**TIME**	**LEVEL**	**TYPE**	**TYPE**	**CAS.** Direct Push Probe	**SAMPLER** Macro Core	**TUBE**		
			NA	**DIA.**	2"			**DATE STARTED:**	September 29, 2014
				WT.	140			**DATE FINISHED:**	September 29, 2014
				FALL	4			**CLEARING CREW:**	Wayne
								GEOLOGIST:	Vladimir Ortiz
								REVIEWED BY:	

DEPTH FEET	STRATA	SAMPLE "S" NO.	SAMPLE "N" NO.	BLOWS PER 6"	REC% RQD%	DESCRIPTION COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS
1 4		**MC1**			50%	Black Brown Gray	Medium Dense	0'-4' FILL. Fine to medium sands and silt, some fill material (concrete, gravel and red brick) and fragmented/Blasted Rock (Schist).	FILL	Dry BG
8		**MC2**			66%	Brown	Medium Dense	4'-8' FILL. Fragmented/Blasted Rock (Schist), some fill material (cocrete, red brick and wood)	FILL	Dry BG
12		**MC3**	**S1**		62%	Gray Black	Medium Dense	8'-12' FILL. Fragmented/Blasted Rock (Schist), some ash.	FILL	Moist to very Moist 129 ppm 459 ppm 1421 ppm
16		**MC4**			79%	Dark Gray Black	Medium Dense	12'-16' FILL . Fine to medium sands and ash.	FILL	Wet 1215 ppm 782 ppm 121 ppm
20		**MC5**	**S2**		87%	Black	Medium Dense Loose	16'-17.5' FILL. Ash. 17.5'-18.5' SAND. Fine to medium sand some silt. 18.5'-20' SAND. Fine to medium and coarse sands, some silt, trace gravel.	FILL SP	Wet 175 ppm 75 ppm 1.7 ppm
								END OF BORING		

COMMENTS: The boring was advanced to a total depth of 20' below ground surface (BGS).
ground water was encountered at about 11.9' BGS.
1" PVC well installed with screen set from 4' to 14' BGS
S1 & S2 - Samples for laboratory analysis.

PROJECT NO.: **13-110-0265**
BORING NO.: **MW-03**

LiRo Engineers, Inc.

TEST BORING LOG

		LOCATION:	MW-04
PROJECT: Ph II	South Bronx Family Residence Samaritan Village	**SHEET:**	**1 of 1**
CLIENT:	Monadnock Construction Inc.	**JOB NO.:**	
BORING CONTRACTOR:	Warren George Inc.	**LOCATION:**	See Figure
GROUNDWATER:	NA	**GROUND ELEVATION:**	NA

DATE	**TIME**	**LEVEL**	**TYPE**	**TYPE**	**CAS.** Direct Push Probe	**SAMPLER** Macro Core	**TUBE**		
			NA	**DIA.**	2"			**DATE STARTED:**	September 29, 2014
				WT.				**DATE FINISHED:**	September 29, 2014
				FALL				**CLEARING CREW:**	Wayne
								GEOLOGIST:	Eva Jakubowska
								REVIEWED BY:	

DEPTH FEET	STRATA	SAMPLE "S" NO.	SAMPLE "N" NO.	BLOWS PER 6"	REC% RQD%	DESCRIPTION COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS	
1		**MC1**	**S1**		90%	Black Brown	Medium Dense	0'-4' FILL. 0'-4' FILL. sand and silt, some fill material (concrete, gravel and brick)	FILL	Dry	BG
4			**S2**								
8		**MC2**			70%	Brown	Medium Dense	4'-8' FILL. sand and silt, some fill material (concrete, gravel and brick)	FILL	Dry	BG
12		**MC3**			60%	Brown Gray	Medium Dense	8'-12' FILL. sand and silt, some fill material (ash, glass and brick)	FILL	Moist	BG
16		**MC4**			90%	Brown	Medium Dense	12'-16' FILL. sand and silt, some fill material (ash, glass and brick)	FILL	Wet	BG
20								END OF BORING			

COMMENTS: The boring was advanced to a total depth of 16' below ground surface (BGS).
Ground water was encountered at about 9' BGS.
S1 & S2 - Samples for laboratory analysis.
1" PVC well installed with screen set from 4' to 14' BGS

PROJECT NO.:
BORING NO.: **MW-04**

LiRo Engineers, Inc.

TEST BORING LOG

		LOCATION:	MW-05
PROJECT: Ph II	South Bronx Family Residence Samaritan Village	**SHEET:**	**1 of 1**
CLIENT:	Monadnock Construction Inc.	**JOB NO.:**	
BORING CONTRACTOR:	Warren George Inc.	**LOCATION:**	See Figure
GROUNDWATER:	NA	**GROUND ELEVATION:**	NA

DATE	**TIME**	**LEVEL**	**TYPE**	**TYPE**	**CAS.** Direct Push Probe	**SAMPLER** Macro Core	**TUBE**		
			NA	**DIA.**	2"			**DATE STARTED:**	September 29, 2014
				WT.				**DATE FINISHED:**	September 29, 2014
				FALL				**CLEARING CREW:**	Wayne
								GEOLOGIST:	Eva Jakubowska
								REVIEWED BY:	

DEPTH FEET	STRATA	"S" NO.	"N" NO.	BLOWS PER 6"	REC% RQD%	COLOR	CONSISTENCY HARDNESS	MATERIAL DESCRIPTION	USCS	REMARKS	
1		**MC1**	**S1**		80%	Black Brown	Medium Dense	0'-4' FILL. 0'-4' FILL. sand and silt, some fill material (concrete, gravel and red brick)	FILL	Dry	BG
4		**MC2**			90%	Brown/Red Brown Black	Medium Dense	4'-8' FILL. sand and silt, some fill material (concrete, gravel and red brick)	FILL	Dry	BG
8		**MC3**			90%	Brown/Red Brown Black	Medium Dense	8'-12' FILL. sand and silt, some fill material (ash, glass and red brick)	FILL	Moist	BG
12		**MC4**	**S2**		79%	Dark Gray Black	Medium Dense	12'-13' FILL . Sand with gravel 13'-13.5' Silt & Peat 13.5'-16' sand some silt	FILL OL SM	Wet	BG
16								END OF BORING			
20											

COMMENTS: The boring was advanced to a total depth of 16' below ground surface (BGS).
Ground water was encountered at about 12' BGS.
S1 & S2 - Samples for laboratory analysis.
1" PVC well installed with screen set from 5.5' to 15.5' BGS

PROJECT NO.:
BORING NO.: **MW-05**

APPENDIX 5

LABORATORY DATA DELIVERABLES FOR SOIL AND GROUNDWATER ANALYTICAL DATA

Included on Attached CD

Hampton-Clarke Report Of Analysis

Client: LIRO Engineers, Inc. **HC Project #:** 4092531

Project: South Bronx Family

Sample ID: SB-01-6.5-7.0' **Collection Date:** 9/24/2014
Lab#: AC81071-001 **Receipt Date:** 9/25/2014
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**95**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
Acenaphthene	**5**	**mg/kg**	**0.35**	**0.41**
Acenaphthylene	5	mg/kg	0.35	ND
Anthracene	**5**	**mg/kg**	**0.35**	**1.2**
Benzo[a]anthracene	**5**	**mg/kg**	**0.35**	**4.0**
Benzo[a]pyrene	**5**	**mg/kg**	**0.35**	**3.2**
Benzo[b]fluoranthene	**5**	**mg/kg**	**0.35**	**3.9**
Benzo[g,h,i]perylene	**5**	**mg/kg**	**0.35**	**2.2**
Benzo[k]fluoranthene	**5**	**mg/kg**	**0.35**	**1.1**
Chrysene	**5**	**mg/kg**	**0.35**	**3.3**
Dibenzo[a,h]anthracene	**5**	**mg/kg**	**0.35**	**0.57**
Fluoranthene	**5**	**mg/kg**	**0.35**	**7.7**
Fluorene	5	mg/kg	0.35	ND
Indeno[1,2,3-cd]pyrene	**5**	**mg/kg**	**0.35**	**1.7**
Phenanthrene	**5**	**mg/kg**	**0.35**	**5.0**
Pyrene	**5**	**mg/kg**	**0.35**	**7.3**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1.01	mg/kg	0.0011	ND
1,3,5-Trimethylbenzene	1.01	mg/kg	0.0011	ND
4-Isopropyltoluene	1.01	mg/kg	0.0011	ND
Benzene	1.01	mg/kg	0.0011	ND
Ethylbenzene	1.01	mg/kg	0.0011	ND
Isopropylbenzene	1.01	mg/kg	0.0011	ND
m&p-Xylenes	1.01	mg/kg	0.0011	ND
Naphthalene	1.01	mg/kg	0.0011	ND
n-Butylbenzene	1.01	mg/kg	0.0011	ND
n-Propylbenzene	1.01	mg/kg	0.0011	ND
o-Xylene	1.01	mg/kg	0.0011	ND
sec-Butylbenzene	1.01	mg/kg	0.0011	ND
t-Butylbenzene	1.01	mg/kg	0.0011	ND
Toluene	1.01	mg/kg	0.0011	ND
Xylenes (Total)	1.01	mg/kg	0.0011	ND

Sample ID: SB-01-11.0-12.0' **Collection Date:** 9/24/2014
Lab#: AC81071-002 **Receipt Date:** 9/25/2014
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**92**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.091**	**0.97**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0054	ND

Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0054	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0054	ND
Endosulfan II	1	mg/kg	0.0054	ND
Endosulfan Sulfate	1	mg/kg	0.0054	ND
Endrin	1	mg/kg	0.0054	ND
Endrin Aldehyde	1	mg/kg	0.0054	ND
Endrin Ketone	1	mg/kg	0.0054	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0054	ND
Heptachlor Epoxide	1	mg/kg	0.0054	ND
Methoxychlor	1	mg/kg	0.0054	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	3	mg/kg	0.22	ND
1,2,4,5-Tetrachlorobenzene	3	mg/kg	0.22	ND
2,3,4,6-Tetrachlorophenol	3	mg/kg	0.22	ND
2,4,5-Trichlorophenol	3	mg/kg	0.22	ND
2,4,6-Trichlorophenol	3	mg/kg	0.22	ND
2,4-Dichlorophenol	3	mg/kg	0.054	ND
2,4-Dimethylphenol	3	mg/kg	0.054	ND
2,4-Dinitrophenol	3	mg/kg	1.1	ND
2,4-Dinitrotoluene	3	mg/kg	0.22	ND
2,6-Dinitrotoluene	3	mg/kg	0.22	ND
2-Chloronaphthalene	3	mg/kg	0.22	ND
2-Chlorophenol	3	mg/kg	0.22	ND
2-Methylnaphthalene	3	mg/kg	0.22	ND
2-Methylphenol	3	mg/kg	0.054	ND
2-Nitroaniline	3	mg/kg	0.22	ND
2-Nitrophenol	3	mg/kg	0.22	ND
3&4-Methylphenol	3	mg/kg	0.054	ND
3,3'-Dichlorobenzidine	3	mg/kg	0.22	ND
3-Nitroaniline	3	mg/kg	0.22	ND
4,6-Dinitro-2-methylphenol	3	mg/kg	1.1	ND
4-Bromophenyl-phenylether	3	mg/kg	0.22	ND
4-Chloro-3-methylphenol	3	mg/kg	0.22	ND
4-Chloroaniline	3	mg/kg	0.10	ND
4-Chlorophenyl-phenylether	3	mg/kg	0.22	ND
4-Nitroaniline	3	mg/kg	0.22	ND
4-Nitrophenol	3	mg/kg	0.22	ND

Sample ID:	**SB-01-11.0-12.0'**	**Collection Date:**	**9/24/2014**
Lab#:	**AC81071-002**	**Receipt Date:**	**9/25/2014**
Matrix:	**Soil**		

Acenaphthene	**3**	**mg/kg**	**0.22**	**0.30**
Acenaphthylene	3	mg/kg	0.22	ND
Acetophenone	3	mg/kg	0.22	ND
Anthracene	**3**	**mg/kg**	**0.22**	**0.82**
Atrazine	3	mg/kg	0.22	ND
Benzaldehyde	3	mg/kg	0.22	ND
Benzo[a]anthracene	**3**	**mg/kg**	**0.22**	**3.8**
Benzo[a]pyrene	**3**	**mg/kg**	**0.22**	**3.3**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.22**	**4.0**
Benzo[g,h,i]perylene	**3**	**mg/kg**	**0.22**	**2.4**
Benzo[k]fluoranthene	**3**	**mg/kg**	**0.22**	**1.4**
bis(2-Chloroethoxy)methane	3	mg/kg	0.22	ND
bis(2-Chloroethyl)ether	3	mg/kg	0.054	ND
bis(2-Chloroisopropyl)ether	3	mg/kg	0.22	ND
bis(2-Ethylhexyl)phthalate	3	mg/kg	0.22	ND
Butylbenzylphthalate	3	mg/kg	0.22	ND
Caprolactam	3	mg/kg	0.22	ND
Carbazole	**3**	**mg/kg**	**0.22**	**0.40**
Chrysene	**3**	**mg/kg**	**0.22**	**3.5**
Dibenzo[a,h]anthracene	**3**	**mg/kg**	**0.22**	**0.56**
Dibenzofuran	**3**	**mg/kg**	**0.054**	**0.14**
Diethylphthalate	3	mg/kg	0.22	ND
Dimethylphthalate	3	mg/kg	0.22	ND
Di-n-butylphthalate	3	mg/kg	0.11	ND
Di-n-octylphthalate	3	mg/kg	0.22	ND
Fluoranthene	**3**	**mg/kg**	**0.22**	**7.7**
Fluorene	**3**	**mg/kg**	**0.22**	**0.22**
Hexachlorobenzene	3	mg/kg	0.22	ND
Hexachlorobutadiene	3	mg/kg	0.22	ND
Hexachlorocyclopentadiene	3	mg/kg	0.22	ND
Hexachloroethane	3	mg/kg	0.22	ND
Indeno[1,2,3-cd]pyrene	**3**	**mg/kg**	**0.22**	**2.0**
Isophorone	3	mg/kg	0.22	ND
Naphthalene	3	mg/kg	0.054	ND
Nitrobenzene	3	mg/kg	0.22	ND
N-Nitroso-di-n-propylamine	3	mg/kg	0.054	ND
N-Nitrosodiphenylamine	3	mg/kg	0.22	ND
Pentachlorophenol	3	mg/kg	1.1	ND
Phenanthrene	**3**	**mg/kg**	**0.22**	**4.5**
Phenol	3	mg/kg	0.22	ND
Pyrene	**3**	**mg/kg**	**0.22**	**7.7**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**4100**
Arsenic	1	mg/kg	4.3	ND
Barium	**1**	**mg/kg**	**11**	**36**
Calcium	**1**	**mg/kg**	**1100**	**4500**
Chromium	**1**	**mg/kg**	**5.4**	**9.5**
Cobalt	**1**	**mg/kg**	**2.7**	**3.5**
Copper	**1**	**mg/kg**	**5.4**	**48**
Iron	**1**	**mg/kg**	**220**	**9600**
Lead	**1**	**mg/kg**	**5.4**	**240**
Magnesium	**1**	**mg/kg**	**540**	**3600**
Manganese	**1**	**mg/kg**	**11**	**190**
Nickel	**1**	**mg/kg**	**5.4**	**8.1**
Potassium	**1**	**mg/kg**	**540**	**630**
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**14**
Zinc	**1**	**mg/kg**	**11**	**83**

Sample ID: SB-01-11.0-12.0' **Collection Date: 9/24/2014**
Lab#: AC81071-002 **Receipt Date: 9/25/2014**
Matrix: Soil

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.87	ND
Beryllium	**1**	**mg/kg**	**0.22**	**0.23**
Cadmium	1	mg/kg	0.43	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	1	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	mg/kg	0.0022	ND
1,1,2-Trichloroethane	1	mg/kg	0.0022	ND
1,1-Dichloroethane	1	mg/kg	0.0022	ND
1,1-Dichloroethene	1	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	1	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	1	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	1	mg/kg	0.0022	ND
1,2-Dibromoethane	1	mg/kg	0.0022	ND
1,2-Dichlorobenzene	1	mg/kg	0.0022	ND
1,2-Dichloroethane	1	mg/kg	0.0011	ND
1,2-Dichloropropane	1	mg/kg	0.0022	ND
1,3-Dichlorobenzene	1	mg/kg	0.0022	ND
1,4-Dichlorobenzene	1	mg/kg	0.0022	ND
1,4-Dioxane	1	mg/kg	0.11	ND
2-Butanone	1	mg/kg	0.0022	ND
2-Hexanone	1	mg/kg	0.0022	ND
4-Methyl-2-pentanone	1	mg/kg	0.0022	ND
Acetone	**1**	**mg/kg**	**0.011**	**0.023**
Benzene	1	mg/kg	0.0011	ND
Bromochloromethane	1	mg/kg	0.0022	ND
Bromodichloromethane	1	mg/kg	0.0022	ND
Bromoform	1	mg/kg	0.0022	ND
Bromomethane	1	mg/kg	0.0022	ND
Carbon disulfide	1	mg/kg	0.0022	ND
Carbon tetrachloride	1	mg/kg	0.0022	ND
Chlorobenzene	1	mg/kg	0.0022	ND
Chloroethane	1	mg/kg	0.0022	ND
Chloroform	1	mg/kg	0.0022	ND
Chloromethane	1	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	1	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	1	mg/kg	0.0022	ND
Cyclohexane	1	mg/kg	0.0022	ND
Dibromochloromethane	1	mg/kg	0.0022	ND
Dichlorodifluoromethane	1	mg/kg	0.0022	ND
Ethylbenzene	1	mg/kg	0.0011	ND
Isopropylbenzene	1	mg/kg	0.0011	ND
m&p-Xylenes	1	mg/kg	0.0011	ND
Methyl Acetate	1	mg/kg	0.0022	ND
Methylcyclohexane	1	mg/kg	0.0022	ND
Methylene chloride	**1**	**mg/kg**	**0.0022**	**0.019**
Methyl-t-butyl ether	1	mg/kg	0.0011	ND
o-Xylene	1	mg/kg	0.0011	ND
Styrene	1	mg/kg	0.0022	ND
Tetrachloroethene	1	mg/kg	0.0022	ND
Toluene	1	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	1	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	1	mg/kg	0.0022	ND
Trichloroethene	1	mg/kg	0.0022	ND

Sample ID: SB-01-11.0-12.0' **Collection Date: 9/24/2014**
Lab#: AC81071-002 **Receipt Date: 9/25/2014**
Matrix: Soil

Trichlorofluoromethane	1	mg/kg	0.0022	ND
Vinyl chloride	1	mg/kg	0.0022	ND
Xylenes (Total)	1	mg/kg	0.0011	ND

Sample ID: MW-01-0-2.0' **Collection Date: 9/25/2014**
Lab#: AC81071-003 **Receipt Date: 9/25/2014**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**93**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.090**	**0.46**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0054	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0054	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0054	ND
Endosulfan II	1	mg/kg	0.0054	ND
Endosulfan Sulfate	1	mg/kg	0.0054	ND
Endrin	1	mg/kg	0.0054	ND
Endrin Aldehyde	1	mg/kg	0.0054	ND
Endrin Ketone	1	mg/kg	0.0054	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0054	ND
Heptachlor Epoxide	1	mg/kg	0.0054	ND
Methoxychlor	1	mg/kg	0.0054	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	3	mg/kg	0.22	ND
1,2,4,5-Tetrachlorobenzene	3	mg/kg	0.22	ND
2,3,4,6-Tetrachlorophenol	3	mg/kg	0.22	ND
2,4,5-Trichlorophenol	3	mg/kg	0.22	ND
2,4,6-Trichlorophenol	3	mg/kg	0.22	ND
2,4-Dichlorophenol	3	mg/kg	0.054	ND
2,4-Dimethylphenol	3	mg/kg	0.054	ND

Sample ID: MW-01-0-2.0' **Collection Date: 9/25/2014**
Lab#: AC81071-003 **Receipt Date: 9/25/2014**
Matrix: Soil

2,4-Dinitrophenol	3	mg/kg	1.1	ND
2,4-Dinitrotoluene	3	mg/kg	0.22	ND
2,6-Dinitrotoluene	3	mg/kg	0.22	ND
2-Chloronaphthalene	3	mg/kg	0.22	ND
2-Chlorophenol	3	mg/kg	0.22	ND
2-Methylnaphthalene	3	mg/kg	0.22	ND
2-Methylphenol	3	mg/kg	0.054	ND
2-Nitroaniline	3	mg/kg	0.22	ND
2-Nitrophenol	3	mg/kg	0.22	ND
3&4-Methylphenol	3	mg/kg	0.054	ND
3,3'-Dichlorobenzidine	3	mg/kg	0.22	ND
3-Nitroaniline	3	mg/kg	0.22	ND
4,6-Dinitro-2-methylphenol	3	mg/kg	1.1	ND
4-Bromophenyl-phenylether	3	mg/kg	0.22	ND
4-Chloro-3-methylphenol	3	mg/kg	0.22	ND
4-Chloroaniline	3	mg/kg	0.10	ND
4-Chlorophenyl-phenylether	3	mg/kg	0.22	ND
4-Nitroaniline	3	mg/kg	0.22	ND
4-Nitrophenol	3	mg/kg	0.22	ND
Acenaphthene	**3**	**mg/kg**	**0.22**	**0.29**
Acenaphthylene	3	mg/kg	0.22	ND
Acetophenone	3	mg/kg	0.22	ND
Anthracene	**3**	**mg/kg**	**0.22**	**0.87**
Atrazine	3	mg/kg	0.22	ND
Benzaldehyde	3	mg/kg	0.22	ND
Benzo[a]anthracene	**3**	**mg/kg**	**0.22**	**2.9**
Benzo[a]pyrene	**3**	**mg/kg**	**0.22**	**2.5**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.22**	**2.9**
Benzo[g,h,i]perylene	**3**	**mg/kg**	**0.22**	**1.9**
Benzo[k]fluoranthene	**3**	**mg/kg**	**0.22**	**1.4**
bis(2-Chloroethoxy)methane	3	mg/kg	0.22	ND
bis(2-Chloroethyl)ether	3	mg/kg	0.054	ND
bis(2-Chloroisopropyl)ether	3	mg/kg	0.22	ND
bis(2-Ethylhexyl)phthalate	3	mg/kg	0.22	ND
Butylbenzylphthalate	3	mg/kg	0.22	ND
Caprolactam	3	mg/kg	0.22	ND
Carbazole	3	mg/kg	0.22	ND
Chrysene	**3**	**mg/kg**	**0.22**	**2.4**
Dibenzo[a,h]anthracene	**3**	**mg/kg**	**0.22**	**0.45**
Dibenzofuran	**3**	**mg/kg**	**0.054**	**0.14**
Diethylphthalate	3	mg/kg	0.22	ND
Dimethylphthalate	3	mg/kg	0.22	ND
Di-n-butylphthalate	3	mg/kg	0.11	ND
Di-n-octylphthalate	3	mg/kg	0.22	ND
Fluoranthene	**3**	**mg/kg**	**0.22**	**5.4**
Fluorene	3	mg/kg	0.22	ND
Hexachlorobenzene	3	mg/kg	0.22	ND
Hexachlorobutadiene	3	mg/kg	0.22	ND
Hexachlorocyclopentadiene	3	mg/kg	0.22	ND
Hexachloroethane	3	mg/kg	0.22	ND
Indeno[1,2,3-cd]pyrene	**3**	**mg/kg**	**0.22**	**1.6**
Isophorone	3	mg/kg	0.22	ND
Naphthalene	3	mg/kg	0.054	ND
Nitrobenzene	3	mg/kg	0.22	ND
N-Nitroso-di-n-propylamine	3	mg/kg	0.054	ND
N-Nitrosodiphenylamine	3	mg/kg	0.22	ND
Pentachlorophenol	3	mg/kg	1.1	ND
Phenanthrene	**3**	**mg/kg**	**0.22**	**3.7**
Phenol	3	mg/kg	0.22	ND
Pyrene	**3**	**mg/kg**	**0.22**	**5.6**

Sample ID: MW-01-0-2.0' **Collection Date: 9/25/2014**
Lab#: AC81071-003 **Receipt Date: 9/25/2014**
Matrix: Soil

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**13000**
Arsenic	**1**	**mg/kg**	**4.3**	**6.2**
Barium	**1**	**mg/kg**	**11**	**160**
Calcium	**1**	**mg/kg**	**1100**	**19000**
Chromium	**1**	**mg/kg**	**5.4**	**35**
Cobalt	**1**	**mg/kg**	**2.7**	**9.3**
Copper	**1**	**mg/kg**	**5.4**	**43**
Iron	**1**	**mg/kg**	**220**	**26000**
Lead	**1**	**mg/kg**	**5.4**	**470**
Magnesium	**1**	**mg/kg**	**540**	**7900**
Manganese	**1**	**mg/kg**	**11**	**360**
Nickel	**1**	**mg/kg**	**5.4**	**24**
Potassium	**1**	**mg/kg**	**540**	**4200**
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**52**
Zinc	**1**	**mg/kg**	**11**	**130**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.86	ND
Beryllium	1	mg/kg	0.22	ND
Cadmium	1	mg/kg	0.43	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	1	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	mg/kg	0.0022	ND
1,1,2-Trichloroethane	1	mg/kg	0.0022	ND
1,1-Dichloroethane	1	mg/kg	0.0022	ND
1,1-Dichloroethene	1	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	1	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	1	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	1	mg/kg	0.0022	ND
1,2-Dibromoethane	1	mg/kg	0.0022	ND
1,2-Dichlorobenzene	1	mg/kg	0.0022	ND
1,2-Dichloroethane	1	mg/kg	0.0011	ND
1,2-Dichloropropane	1	mg/kg	0.0022	ND
1,3-Dichlorobenzene	1	mg/kg	0.0022	ND
1,4-Dichlorobenzene	1	mg/kg	0.0022	ND
1,4-Dioxane	1	mg/kg	0.11	ND
2-Butanone	1	mg/kg	0.0022	ND
2-Hexanone	1	mg/kg	0.0022	ND
4-Methyl-2-pentanone	1	mg/kg	0.0022	ND
Acetone	**1**	**mg/kg**	**0.011**	**0.10**
Benzene	1	mg/kg	0.0011	ND
Bromochloromethane	1	mg/kg	0.0022	ND
Bromodichloromethane	1	mg/kg	0.0022	ND
Bromoform	1	mg/kg	0.0022	ND
Bromomethane	1	mg/kg	0.0022	ND
Carbon disulfide	1	mg/kg	0.0022	ND
Carbon tetrachloride	1	mg/kg	0.0022	ND
Chlorobenzene	1	mg/kg	0.0022	ND
Chloroethane	1	mg/kg	0.0022	ND
Chloroform	1	mg/kg	0.0022	ND

Sample ID: MW-01-0-2.0' **Collection Date: 9/25/2014**
Lab#: AC81071-003 **Receipt Date: 9/25/2014**
Matrix: Soil

Chloromethane	1	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	1	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	1	mg/kg	0.0022	ND
Cyclohexane	1	mg/kg	0.0022	ND
Dibromochloromethane	1	mg/kg	0.0022	ND
Dichlorodifluoromethane	1	mg/kg	0.0022	ND
Ethylbenzene	1	mg/kg	0.0011	ND
Isopropylbenzene	1	mg/kg	0.0011	ND
m&p-Xylenes	1	mg/kg	0.0011	ND
Methyl Acetate	1	mg/kg	0.0022	ND
Methylcyclohexane	1	mg/kg	0.0022	ND
Methylene chloride	**1**	**mg/kg**	**0.0022**	**0.049**
Methyl-t-butyl ether	1	mg/kg	0.0011	ND
o-Xylene	1	mg/kg	0.0011	ND
Styrene	1	mg/kg	0.0022	ND
Tetrachloroethene	1	mg/kg	0.0022	ND
Toluene	1	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	1	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	1	mg/kg	0.0022	ND
Trichloroethene	1	mg/kg	0.0022	ND
Trichlorofluoromethane	1	mg/kg	0.0022	ND
Vinyl chloride	1	mg/kg	0.0022	ND
Xylenes (Total)	1	mg/kg	0.0011	ND

Sample ID: MW-01-14.0-15.0' **Collection Date: 9/25/2014**
Lab#: AC81071-004 **Receipt Date: 9/25/2014**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**88**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**20**	**mg/kg**	**1.9**	**29**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0057	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.028	ND
delta-BHC	1	mg/kg	0.0057	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0057	ND
Endosulfan II	1	mg/kg	0.0057	ND
Endosulfan Sulfate	1	mg/kg	0.0057	ND
Endrin	1	mg/kg	0.0057	ND
Endrin Aldehyde	1	mg/kg	0.0057	ND
Endrin Ketone	1	mg/kg	0.0057	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0057	ND
Heptachlor Epoxide	1	mg/kg	0.0057	ND
Methoxychlor	1	mg/kg	0.0057	ND
p,p'-DDD	1	mg/kg	0.0028	ND
p,p'-DDE	1	mg/kg	0.0028	ND
p,p'-DDT	1	mg/kg	0.0028	ND
Toxaphene	1	mg/kg	0.028	ND

PCB 8082

Analyte	DF	Units	RL	Result

Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.038	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.038	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.038	ND
2,4,5-Trichlorophenol	1	mg/kg	0.038	ND
2,4,6-Trichlorophenol	1	mg/kg	0.038	ND
2,4-Dichlorophenol	1	mg/kg	0.0095	ND
2,4-Dimethylphenol	1	mg/kg	0.0095	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.038	ND
2,6-Dinitrotoluene	1	mg/kg	0.038	ND
2-Chloronaphthalene	1	mg/kg	0.038	ND
2-Chlorophenol	1	mg/kg	0.038	ND
2-Methylnaphthalene	1	mg/kg	0.038	ND
2-Methylphenol	1	mg/kg	0.0095	ND
2-Nitroaniline	1	mg/kg	0.038	ND
2-Nitrophenol	1	mg/kg	0.038	ND
3&4-Methylphenol	1	mg/kg	0.0095	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.038	ND
3-Nitroaniline	1	mg/kg	0.038	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.038	ND
4-Chloro-3-methylphenol	1	mg/kg	0.038	ND
4-Chloroaniline	1	mg/kg	0.018	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.038	ND
4-Nitroaniline	1	mg/kg	0.038	ND
4-Nitrophenol	1	mg/kg	0.038	ND
Acenaphthene	1	mg/kg	0.038	ND
Acenaphthylene	1	mg/kg	0.038	ND
Acetophenone	1	mg/kg	0.038	ND
Anthracene	**1**	**mg/kg**	**0.038**	**0.071**
Atrazine	1	mg/kg	0.038	ND
Benzaldehyde	1	mg/kg	0.038	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.038**	**0.23**
Benzo[a]pyrene	**1**	**mg/kg**	**0.038**	**0.21**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.038**	**0.25**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.038**	**0.16**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.038**	**0.074**
bis(2-Chloroethoxy)methane	1	mg/kg	0.038	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0095	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.038	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.038	ND
Butylbenzylphthalate	1	mg/kg	0.038	ND
Caprolactam	1	mg/kg	0.038	ND
Carbazole	1	mg/kg	0.038	ND
Chrysene	**1**	**mg/kg**	**0.038**	**0.19**
Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.038**	**0.044**
Dibenzofuran	**1**	**mg/kg**	**0.0095**	**0.023**
Diethylphthalate	1	mg/kg	0.038	ND

Dimethylphthalate	1	mg/kg	0.038	ND
Di-n-butylphthalate	1	mg/kg	0.019	ND
Di-n-octylphthalate	1	mg/kg	0.038	ND
Fluoranthene	**1**	**mg/kg**	**0.038**	**0.38**
Fluorene	1	mg/kg	0.038	ND
Hexachlorobenzene	1	mg/kg	0.038	ND
Hexachlorobutadiene	1	mg/kg	0.038	ND
Hexachlorocyclopentadiene	1	mg/kg	0.038	ND
Hexachloroethane	1	mg/kg	0.038	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.038**	**0.13**
Isophorone	1	mg/kg	0.038	ND
Naphthalene	**1**	**mg/kg**	**0.0095**	**0.025**
Nitrobenzene	1	mg/kg	0.038	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0095	ND
N-Nitrosodiphenylamine	1	mg/kg	0.038	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	**1**	**mg/kg**	**0.038**	**0.34**
Phenol	1	mg/kg	0.038	ND
Pyrene	**1**	**mg/kg**	**0.038**	**0.39**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**230**	**8400**
Arsenic	1	mg/kg	4.5	ND
Barium	**1**	**mg/kg**	**11**	**100**
Calcium	**1**	**mg/kg**	**1100**	**19000**
Chromium	**1**	**mg/kg**	**5.7**	**20**
Cobalt	**1**	**mg/kg**	**2.8**	**8.3**
Copper	**1**	**mg/kg**	**5.7**	**32**
Iron	**1**	**mg/kg**	**230**	**17000**
Lead	**1**	**mg/kg**	**5.7**	**140**
Magnesium	**1**	**mg/kg**	**570**	**6000**
Manganese	**1**	**mg/kg**	**11**	**1200**
Nickel	**1**	**mg/kg**	**5.7**	**30**
Potassium	**1**	**mg/kg**	**570**	**2200**
Sodium	1	mg/kg	280	ND
Thallium	1	mg/kg	1.7	ND
Vanadium	**1**	**mg/kg**	**11**	**27**
Zinc	**1**	**mg/kg**	**11**	**92**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.91	ND
Beryllium	**1**	**mg/kg**	**0.23**	**0.34**
Cadmium	1	mg/kg	0.45	ND
Selenium	1	mg/kg	2.3	ND
Silver	1	mg/kg	0.23	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.994	mg/kg	0.0023	ND
1,1,2,2-Tetrachloroethane	0.994	mg/kg	0.0023	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.994	mg/kg	0.0023	ND
1,1,2-Trichloroethane	0.994	mg/kg	0.0023	ND
1,1-Dichloroethane	0.994	mg/kg	0.0023	ND
1,1-Dichloroethene	0.994	mg/kg	0.0023	ND
1,2,3-Trichlorobenzene	0.994	mg/kg	0.0023	ND
1,2,4-Trichlorobenzene	0.994	mg/kg	0.0023	ND
1,2-Dibromo-3-chloropropane	0.994	mg/kg	0.0023	ND
1,2-Dibromoethane	0.994	mg/kg	0.0023	ND
1,2-Dichlorobenzene	0.994	mg/kg	0.0023	ND

Sample ID: MW-01-14.0-15.0' **Collection Date: 9/25/2014**
Lab#: AC81071-004 **Receipt Date: 9/25/2014**
Matrix: Soil

1,2-Dichloroethane	0.994	mg/kg	0.0011	ND
1,2-Dichloropropane	0.994	mg/kg	0.0023	ND
1,3-Dichlorobenzene	0.994	mg/kg	0.0023	ND
1,4-Dichlorobenzene	0.994	mg/kg	0.0023	ND
1,4-Dioxane	0.994	mg/kg	0.11	ND
2-Butanone	0.994	mg/kg	0.0023	ND
2-Hexanone	0.994	mg/kg	0.0023	ND
4-Methyl-2-pentanone	0.994	mg/kg	0.0023	ND
Acetone	**0.994**	**mg/kg**	**0.011**	**0.061**
Benzene	0.994	mg/kg	0.0011	ND
Bromochloromethane	0.994	mg/kg	0.0023	ND
Bromodichloromethane	0.994	mg/kg	0.0023	ND
Bromoform	0.994	mg/kg	0.0023	ND
Bromomethane	0.994	mg/kg	0.0023	ND
Carbon disulfide	0.994	mg/kg	0.0023	ND
Carbon tetrachloride	0.994	mg/kg	0.0023	ND
Chlorobenzene	0.994	mg/kg	0.0023	ND
Chloroethane	0.994	mg/kg	0.0023	ND
Chloroform	0.994	mg/kg	0.0023	ND
Chloromethane	0.994	mg/kg	0.0023	ND
cis-1,2-Dichloroethene	0.994	mg/kg	0.0023	ND
cis-1,3-Dichloropropene	0.994	mg/kg	0.0023	ND
Cyclohexane	0.994	mg/kg	0.0023	ND
Dibromochloromethane	0.994	mg/kg	0.0023	ND
Dichlorodifluoromethane	0.994	mg/kg	0.0023	ND
Ethylbenzene	0.994	mg/kg	0.0011	ND
Isopropylbenzene	0.994	mg/kg	0.0011	ND
m&p-Xylenes	0.994	mg/kg	0.0011	ND
Methyl Acetate	0.994	mg/kg	0.0023	ND
Methylcyclohexane	0.994	mg/kg	0.0023	ND
Methylene chloride	**0.994**	**mg/kg**	**0.0023**	**0.024**
Methyl-t-butyl ether	0.994	mg/kg	0.0011	ND
o-Xylene	0.994	mg/kg	0.0011	ND
Styrene	0.994	mg/kg	0.0023	ND
Tetrachloroethene	0.994	mg/kg	0.0023	ND
Toluene	0.994	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.994	mg/kg	0.0023	ND
trans-1,3-Dichloropropene	0.994	mg/kg	0.0023	ND
Trichloroethene	0.994	mg/kg	0.0023	ND
Trichlorofluoromethane	0.994	mg/kg	0.0023	ND
Vinyl chloride	0.994	mg/kg	0.0023	ND
Xylenes (Total)	0.994	mg/kg	0.0011	ND

Sample ID: SB-04-11-12.0' **Collection Date: 9/25/2014**
Lab#: AC81071-005 **Receipt Date: 9/25/2014**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**94**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.089**	**0.70**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0053	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND

delta-BHC	1	mg/kg	0.0053	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0053	ND
Endosulfan II	1	mg/kg	0.0053	ND
Endosulfan Sulfate	1	mg/kg	0.0053	ND
Endrin	1	mg/kg	0.0053	ND
Endrin Aldehyde	1	mg/kg	0.0053	ND
Endrin Ketone	1	mg/kg	0.0053	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0053	ND
Heptachlor Epoxide	1	mg/kg	0.0053	ND
Methoxychlor	1	mg/kg	0.0053	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.071	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.071	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.071	ND
2,4,5-Trichlorophenol	1	mg/kg	0.071	ND
2,4,6-Trichlorophenol	1	mg/kg	0.071	ND
2,4-Dichlorophenol	1	mg/kg	0.018	ND
2,4-Dimethylphenol	1	mg/kg	0.018	ND
2,4-Dinitrophenol	1	mg/kg	0.35	ND
2,4-Dinitrotoluene	1	mg/kg	0.071	ND
2,6-Dinitrotoluene	1	mg/kg	0.071	ND
2-Chloronaphthalene	1	mg/kg	0.071	ND
2-Chlorophenol	1	mg/kg	0.071	ND
2-Methylnaphthalene	1	mg/kg	0.071	ND
2-Methylphenol	1	mg/kg	0.018	ND
2-Nitroaniline	1	mg/kg	0.071	ND
2-Nitrophenol	1	mg/kg	0.071	ND
3&4-Methylphenol	1	mg/kg	0.018	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.071	ND
3-Nitroaniline	1	mg/kg	0.071	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.35	ND
4-Bromophenyl-phenylether	1	mg/kg	0.071	ND
4-Chloro-3-methylphenol	1	mg/kg	0.071	ND
4-Chloroaniline	1	mg/kg	0.034	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.071	ND
4-Nitroaniline	1	mg/kg	0.071	ND
4-Nitrophenol	1	mg/kg	0.071	ND
Acenaphthene	**1**	**mg/kg**	**0.071**	**0.39**
Acenaphthylene	**1**	**mg/kg**	**0.071**	**0.074**
Acetophenone	1	mg/kg	0.071	ND

Anthracene	**1**	**mg/kg**	**0.071**	**0.84**
Atrazine	1	mg/kg	0.071	ND
Benzaldehyde	1	mg/kg	0.071	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.071**	**3.0**
Benzo[a]pyrene	**1**	**mg/kg**	**0.071**	**2.6**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.071**	**3.1**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.071**	**1.7**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.071**	**0.95**
bis(2-Chloroethoxy)methane	1	mg/kg	0.071	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.018	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.071	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.071	ND
Butylbenzylphthalate	1	mg/kg	0.071	ND
Caprolactam	1	mg/kg	0.071	ND
Carbazole	**1**	**mg/kg**	**0.071**	**0.27**
Chrysene	**1**	**mg/kg**	**0.071**	**2.7**
Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.071**	**0.44**
Dibenzofuran	**1**	**mg/kg**	**0.018**	**0.16**
Diethylphthalate	1	mg/kg	0.071	ND
Dimethylphthalate	1	mg/kg	0.071	ND
Di-n-butylphthalate	1	mg/kg	0.036	ND
Di-n-octylphthalate	1	mg/kg	0.071	ND
Fluoranthene	**1**	**mg/kg**	**0.071**	**5.9**
Fluorene	**1**	**mg/kg**	**0.071**	**0.26**
Hexachlorobenzene	1	mg/kg	0.071	ND
Hexachlorobutadiene	1	mg/kg	0.071	ND
Hexachlorocyclopentadiene	1	mg/kg	0.071	ND
Hexachloroethane	1	mg/kg	0.071	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.071**	**1.5**
Isophorone	1	mg/kg	0.071	ND
Naphthalene	**1**	**mg/kg**	**0.018**	**0.058**
Nitrobenzene	1	mg/kg	0.071	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.018	ND
N-Nitrosodiphenylamine	1	mg/kg	0.071	ND
Pentachlorophenol	1	mg/kg	0.35	ND
Phenanthrene	**1**	**mg/kg**	**0.071**	**4.5**
Phenol	1	mg/kg	0.071	ND
Pyrene	**1**	**mg/kg**	**0.071**	**5.9**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**210**	**6300**
Arsenic	1	mg/kg	4.3	ND
Barium	**1**	**mg/kg**	**11**	**220**
Calcium	**1**	**mg/kg**	**1100**	**9000**
Chromium	**1**	**mg/kg**	**5.3**	**20**
Cobalt	**1**	**mg/kg**	**2.7**	**5.2**
Copper	**1**	**mg/kg**	**5.3**	**32**
Iron	**1**	**mg/kg**	**210**	**14000**
Lead	**1**	**mg/kg**	**5.3**	**370**
Magnesium	**1**	**mg/kg**	**530**	**5500**
Manganese	**1**	**mg/kg**	**11**	**250**
Nickel	**1**	**mg/kg**	**5.3**	**13**
Potassium	**1**	**mg/kg**	**530**	**1900**
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**32**
Zinc	**1**	**mg/kg**	**11**	**120**

TAL Metals 6020

Analyte	DF	Units	RL	Result

Sample ID: SB-04-11-12.0' **Collection Date: 9/25/2014**
Lab#: AC81071-005 **Receipt Date: 9/25/2014**
Matrix: Soil

Antimony	1	mg/kg	0.85	ND
Beryllium	**1**	**mg/kg**	**0.21**	**0.28**
Cadmium	**1**	**mg/kg**	**0.43**	**0.74**
Selenium	1	mg/kg	2.1	ND
Silver	1	mg/kg	0.21	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.996	mg/kg	0.0021	ND
1,1,2,2-Tetrachloroethane	0.996	mg/kg	0.0021	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.996	mg/kg	0.0021	ND
1,1,2-Trichloroethane	0.996	mg/kg	0.0021	ND
1,1-Dichloroethane	0.996	mg/kg	0.0021	ND
1,1-Dichloroethene	0.996	mg/kg	0.0021	ND
1,2,3-Trichlorobenzene	0.996	mg/kg	0.0021	ND
1,2,4-Trichlorobenzene	0.996	mg/kg	0.0021	ND
1,2-Dibromo-3-chloropropane	0.996	mg/kg	0.0021	ND
1,2-Dibromoethane	0.996	mg/kg	0.0021	ND
1,2-Dichlorobenzene	0.996	mg/kg	0.0021	ND
1,2-Dichloroethane	0.996	mg/kg	0.0011	ND
1,2-Dichloropropane	0.996	mg/kg	0.0021	ND
1,3-Dichlorobenzene	0.996	mg/kg	0.0021	ND
1,4-Dichlorobenzene	0.996	mg/kg	0.0021	ND
1,4-Dioxane	0.996	mg/kg	0.11	ND
2-Butanone	0.996	mg/kg	0.0021	ND
2-Hexanone	0.996	mg/kg	0.0021	ND
4-Methyl-2-pentanone	0.996	mg/kg	0.0021	ND
Acetone	**0.996**	**mg/kg**	**0.011**	**0.063**
Benzene	0.996	mg/kg	0.0011	ND
Bromochloromethane	0.996	mg/kg	0.0021	ND
Bromodichloromethane	0.996	mg/kg	0.0021	ND
Bromoform	0.996	mg/kg	0.0021	ND
Bromomethane	0.996	mg/kg	0.0021	ND
Carbon disulfide	0.996	mg/kg	0.0021	ND
Carbon tetrachloride	0.996	mg/kg	0.0021	ND
Chlorobenzene	0.996	mg/kg	0.0021	ND
Chloroethane	0.996	mg/kg	0.0021	ND
Chloroform	0.996	mg/kg	0.0021	ND
Chloromethane	0.996	mg/kg	0.0021	ND
cis-1,2-Dichloroethene	0.996	mg/kg	0.0021	ND
cis-1,3-Dichloropropene	0.996	mg/kg	0.0021	ND
Cyclohexane	0.996	mg/kg	0.0021	ND
Dibromochloromethane	0.996	mg/kg	0.0021	ND
Dichlorodifluoromethane	0.996	mg/kg	0.0021	ND
Ethylbenzene	0.996	mg/kg	0.0011	ND
Isopropylbenzene	0.996	mg/kg	0.0011	ND
m&p-Xylenes	0.996	mg/kg	0.0011	ND
Methyl Acetate	0.996	mg/kg	0.0021	ND
Methylcyclohexane	0.996	mg/kg	0.0021	ND
Methylene chloride	**0.996**	**mg/kg**	**0.0021**	**0.048**
Methyl-t-butyl ether	0.996	mg/kg	0.0011	ND
o-Xylene	0.996	mg/kg	0.0011	ND
Styrene	0.996	mg/kg	0.0021	ND
Tetrachloroethene	0.996	mg/kg	0.0021	ND
Toluene	0.996	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.996	mg/kg	0.0021	ND
trans-1,3-Dichloropropene	0.996	mg/kg	0.0021	ND
Trichloroethene	0.996	mg/kg	0.0021	ND
Trichlorofluoromethane	0.996	mg/kg	0.0021	ND
Vinyl chloride	0.996	mg/kg	0.0021	ND
Xylenes (Total)	0.996	mg/kg	0.0011	ND

HamptonClarke-Veritech Laboratories
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

HC·V HamptonClarke Veritech WBE/DBE/SBE 800.426.9992
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CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 4092531

Page 1 of 1

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Customer Information

1a) Customer: LiRO Engineers, Inc.
Address: 690 Delaware Ave. Buffalo, NY
1b) Email/Cell/Fax/Ph: franks@liro.com
1c) Send Invoice to: same.
1d) Send Report to: Steve Frank

Project Information

2a) Project: South Bronx Family Site. 110 East 149 str.
2b) Project Mgr: Steve Frank
2c) Project Location (City/State): Bronx NY
2d) Quote/PO # (If Applicable): —

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
1 Business Day (100%)	Data Summary	Hazsite/CSV
2 Business Days (75%)	Results + QC (Waste)	EnviroData
3 Business Days (50%)	NJ Reduced	Excel - NJ Regulatory
4 Business Days (35%)	NY Reduced	Excel - NY Regulatory
1 Week (25%)	PA Reduced	Excel - PA Regulatory
10 Calendar Days (10%)	Full / Category B	EQuIS (specify below):
2 Weeks	Category A	4-File/EZ/NYS/Reg. 2 or 5
Other: As per contract		Other: PDF

Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓

Batch # AC81071

Check If Contingent ===>

Matrix Codes
DW - Drinking Water, S - Soil, A - Air
GW - Ground Water, SL - Sludge
WW - Waste Water, OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis Request <=== Check If Contingent

8) # of Bottles 5

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	CP-51 VOCs	TCL/TAL *	None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
-001	SB-01-6.5-7.0'	S	9-24-14	1030		X	X		X								
-002	SB-01-11.0-12.0'	S	"	1035	X			X	X								
-003	MW-01-0-2.0'	S	9-25-14	1100	X			X	X								
-004	MW-01-14.0-15.0'	S	↓	1105	X			X	X								
-005	SB-04-11-12.0'	S	↓	1300	X			X	X								

10) Relinquished by:	Accepted by:	Date	Time
Eva Jakubowska	[signature]	9/25/14	1400
	[signature]	9/25/14	1700

Comments, Notes, Special Requirements, HAZARDS

Note: Check if low-level groundwater methods required to meet current standards:
- ☐ BN or BNA (8270C SIM)
- ☐ VOC (8260B SIM or 8011)

* Includes: VOC, SVOCs, PCBs, Pesticides & metals

Note: Check if applicable:
- ☐ Project-Specific Reporting Limits
- ☐ High Contaminant Concentrations
- ☐ NJ LSRP Project

Cooler Temperature: 2.1°C

Additional Notes

11) Sampler (print name): EVA JAKUBOWSKA Date: 9/25/14

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Hampton-Clarke Report Of Analysis

Client: LIRO Engineers, Inc. **HC Project #:** 4092918

Project: South Bronx Family

Sample ID: SB-03-2.0-4.0' **Collection Date:** 9/26/2014
Lab#: AC81143-001 **Receipt Date:** 9/29/2014
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**92**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.091**	**0.63**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0054	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0054	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0054	ND
Endosulfan II	1	mg/kg	0.0054	ND
Endosulfan Sulfate	1	mg/kg	0.0054	ND
Endrin	1	mg/kg	0.0054	ND
Endrin Aldehyde	1	mg/kg	0.0054	ND
Endrin Ketone	1	mg/kg	0.0054	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0054	ND
Heptachlor Epoxide	1	mg/kg	0.0054	ND
Methoxychlor	1	mg/kg	0.0054	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	3	mg/kg	0.22	ND
1,2,4,5-Tetrachlorobenzene	3	mg/kg	0.22	ND
2,3,4,6-Tetrachlorophenol	3	mg/kg	0.22	ND
2,4,5-Trichlorophenol	3	mg/kg	0.22	ND
2,4,6-Trichlorophenol	3	mg/kg	0.22	ND
2,4-Dichlorophenol	3	mg/kg	0.054	ND
2,4-Dimethylphenol	3	mg/kg	0.054	ND
2,4-Dinitrophenol	3	mg/kg	1.1	ND
2,4-Dinitrotoluene	3	mg/kg	0.22	ND

Sample ID: SB-03-2.0-4.0' **Collection Date: 9/26/2014**
Lab#: AC81143-001 **Receipt Date: 9/29/2014**
Matrix: Soil

2,6-Dinitrotoluene	3	mg/kg	0.22	ND
2-Chloronaphthalene	3	mg/kg	0.22	ND
2-Chlorophenol	3	mg/kg	0.22	ND
2-Methylnaphthalene	3	mg/kg	0.22	ND
2-Methylphenol	3	mg/kg	0.054	ND
2-Nitroaniline	3	mg/kg	0.22	ND
2-Nitrophenol	3	mg/kg	0.22	ND
3&4-Methylphenol	3	mg/kg	0.054	ND
3,3'-Dichlorobenzidine	3	mg/kg	0.22	ND
3-Nitroaniline	3	mg/kg	0.22	ND
4,6-Dinitro-2-methylphenol	3	mg/kg	1.1	ND
4-Bromophenyl-phenylether	3	mg/kg	0.22	ND
4-Chloro-3-methylphenol	3	mg/kg	0.22	ND
4-Chloroaniline	3	mg/kg	0.10	ND
4-Chlorophenyl-phenylether	3	mg/kg	0.22	ND
4-Nitroaniline	3	mg/kg	0.22	ND
4-Nitrophenol	3	mg/kg	0.22	ND
Acenaphthene	3	mg/kg	0.22	ND
Acenaphthylene	3	mg/kg	0.22	ND
Acetophenone	3	mg/kg	0.22	ND
Anthracene	**3**	**mg/kg**	**0.22**	**0.22**
Atrazine	3	mg/kg	0.22	ND
Benzaldehyde	3	mg/kg	0.22	ND
Benzo[a]anthracene	**3**	**mg/kg**	**0.22**	**0.78**
Benzo[a]pyrene	**3**	**mg/kg**	**0.22**	**0.74**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.22**	**0.93**
Benzo[g,h,i]perylene	**3**	**mg/kg**	**0.22**	**0.57**
Benzo[k]fluoranthene	**3**	**mg/kg**	**0.22**	**0.29**
bis(2-Chloroethoxy)methane	3	mg/kg	0.22	ND
bis(2-Chloroethyl)ether	3	mg/kg	0.054	ND
bis(2-Chloroisopropyl)ether	3	mg/kg	0.22	ND
bis(2-Ethylhexyl)phthalate	3	mg/kg	0.22	ND
Butylbenzylphthalate	3	mg/kg	0.22	ND
Caprolactam	3	mg/kg	0.22	ND
Carbazole	3	mg/kg	0.22	ND
Chrysene	**3**	**mg/kg**	**0.22**	**0.75**
Dibenzo[a,h]anthracene	3	mg/kg	0.22	ND
Dibenzofuran	3	mg/kg	0.054	ND
Diethylphthalate	3	mg/kg	0.22	ND
Dimethylphthalate	3	mg/kg	0.22	ND
Di-n-butylphthalate	3	mg/kg	0.11	ND
Di-n-octylphthalate	3	mg/kg	0.22	ND
Fluoranthene	**3**	**mg/kg**	**0.22**	**1.2**
Fluorene	3	mg/kg	0.22	ND
Hexachlorobenzene	3	mg/kg	0.22	ND
Hexachlorobutadiene	3	mg/kg	0.22	ND
Hexachlorocyclopentadiene	3	mg/kg	0.22	ND
Hexachloroethane	3	mg/kg	0.22	ND
Indeno[1,2,3-cd]pyrene	**3**	**mg/kg**	**0.22**	**0.44**
Isophorone	3	mg/kg	0.22	ND
Naphthalene	3	mg/kg	0.054	ND
Nitrobenzene	3	mg/kg	0.22	ND
N-Nitroso-di-n-propylamine	3	mg/kg	0.054	ND
N-Nitrosodiphenylamine	3	mg/kg	0.22	ND
Pentachlorophenol	3	mg/kg	1.1	ND
Phenanthrene	**3**	**mg/kg**	**0.22**	**0.90**
Phenol	3	mg/kg	0.22	ND
Pyrene	**3**	**mg/kg**	**0.22**	**1.3**

TAL Metals 6010

Analyte	DF	Units	RL	Result

Aluminum	**1**	**mg/kg**	**220**	**5600**
Arsenic	1	mg/kg	4.3	ND
Barium	**1**	**mg/kg**	**11**	**76**
Calcium	**1**	**mg/kg**	**1100**	**15000**
Chromium	**1**	**mg/kg**	**5.4**	**16**
Cobalt	**1**	**mg/kg**	**2.7**	**4.9**
Copper	**1**	**mg/kg**	**5.4**	**42**
Iron	**1**	**mg/kg**	**220**	**11000**
Lead	**1**	**mg/kg**	**5.4**	**280**
Magnesium	**1**	**mg/kg**	**540**	**5200**
Manganese	**1**	**mg/kg**	**11**	**260**
Nickel	**1**	**mg/kg**	**5.4**	**14**
Potassium	**1**	**mg/kg**	**540**	**1100**
Sodium	**1**	**mg/kg**	**270**	**290**
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**26**
Zinc	**1**	**mg/kg**	**11**	**140**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.87	ND
Beryllium	**1**	**mg/kg**	**0.22**	**0.22**
Cadmium	1	mg/kg	0.43	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.994	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.994	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.994	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.994	mg/kg	0.0022	ND
1,1-Dichloroethane	0.994	mg/kg	0.0022	ND
1,1-Dichloroethene	0.994	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.994	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.994	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.994	mg/kg	0.0022	ND
1,2-Dibromoethane	0.994	mg/kg	0.0022	ND
1,2-Dichlorobenzene	0.994	mg/kg	0.0022	ND
1,2-Dichloroethane	0.994	mg/kg	0.0011	ND
1,2-Dichloropropane	0.994	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.994	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.994	mg/kg	0.0022	ND
1,4-Dioxane	0.994	mg/kg	0.11	ND
2-Butanone	0.994	mg/kg	0.0022	ND
2-Hexanone	0.994	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.994	mg/kg	0.0022	ND
Acetone	0.994	mg/kg	0.011	ND
Benzene	0.994	mg/kg	0.0011	ND
Bromochloromethane	0.994	mg/kg	0.0022	ND
Bromodichloromethane	0.994	mg/kg	0.0022	ND
Bromoform	0.994	mg/kg	0.0022	ND
Bromomethane	0.994	mg/kg	0.0022	ND
Carbon disulfide	0.994	mg/kg	0.0022	ND
Carbon tetrachloride	0.994	mg/kg	0.0022	ND
Chlorobenzene	0.994	mg/kg	0.0022	ND
Chloroethane	0.994	mg/kg	0.0022	ND
Chloroform	0.994	mg/kg	0.0022	ND
Chloromethane	0.994	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.994	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.994	mg/kg	0.0022	ND

Sample ID: SB-03-2.0-4.0' **Collection Date: 9/26/2014**
Lab#: AC81143-001 **Receipt Date: 9/29/2014**
Matrix: Soil

Cyclohexane	0.994	mg/kg	0.0022	ND
Dibromochloromethane	0.994	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.994	mg/kg	0.0022	ND
Ethylbenzene	0.994	mg/kg	0.0011	ND
Isopropylbenzene	0.994	mg/kg	0.0011	ND
m&p-Xylenes	0.994	mg/kg	0.0011	ND
Methyl Acetate	0.994	mg/kg	0.0022	ND
Methylcyclohexane	0.994	mg/kg	0.0022	ND
Methylene chloride	**0.994**	**mg/kg**	**0.0022**	**0.031**
Methyl-t-butyl ether	0.994	mg/kg	0.0011	ND
o-Xylene	0.994	mg/kg	0.0011	ND
Styrene	0.994	mg/kg	0.0022	ND
Tetrachloroethene	0.994	mg/kg	0.0022	ND
Toluene	0.994	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.994	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.994	mg/kg	0.0022	ND
Trichloroethene	0.994	mg/kg	0.0022	ND
Trichlorofluoromethane	0.994	mg/kg	0.0022	ND
Vinyl chloride	0.994	mg/kg	0.0022	ND
Xylenes (Total)	0.994	mg/kg	0.0011	ND

Sample ID: SB-02-0-2.0' **Collection Date: 9/26/2014**
Lab#: AC81143-002 **Receipt Date: 9/29/2014**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**93**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.090**	**0.50**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	2	mg/kg	0.011	ND
Alpha-BHC	2	mg/kg	0.0022	ND
beta-BHC	2	mg/kg	0.0022	ND
Chlordane	2	mg/kg	0.054	ND
delta-BHC	2	mg/kg	0.011	ND
Dieldrin	2	mg/kg	0.0022	ND
Endosulfan I	2	mg/kg	0.011	ND
Endosulfan II	2	mg/kg	0.011	ND
Endosulfan Sulfate	2	mg/kg	0.011	ND
Endrin	2	mg/kg	0.011	ND
Endrin Aldehyde	2	mg/kg	0.011	ND
Endrin Ketone	2	mg/kg	0.011	ND
gamma-BHC	2	mg/kg	0.0022	ND
Heptachlor	2	mg/kg	0.011	ND
Heptachlor Epoxide	2	mg/kg	0.011	ND
Methoxychlor	2	mg/kg	0.011	ND
p,p'-DDD	2	mg/kg	0.0054	ND
p,p'-DDE	2	mg/kg	0.0054	ND
p,p'-DDT	2	mg/kg	0.0054	ND
Toxaphene	2	mg/kg	0.054	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND

Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	3	mg/kg	0.22	ND
1,2,4,5-Tetrachlorobenzene	3	mg/kg	0.22	ND
2,3,4,6-Tetrachlorophenol	3	mg/kg	0.22	ND
2,4,5-Trichlorophenol	3	mg/kg	0.22	ND
2,4,6-Trichlorophenol	3	mg/kg	0.22	ND
2,4-Dichlorophenol	3	mg/kg	0.054	ND
2,4-Dimethylphenol	3	mg/kg	0.054	ND
2,4-Dinitrophenol	3	mg/kg	1.1	ND
2,4-Dinitrotoluene	3	mg/kg	0.22	ND
2,6-Dinitrotoluene	3	mg/kg	0.22	ND
2-Chloronaphthalene	3	mg/kg	0.22	ND
2-Chlorophenol	3	mg/kg	0.22	ND
2-Methylnaphthalene	3	mg/kg	0.22	ND
2-Methylphenol	3	mg/kg	0.054	ND
2-Nitroaniline	3	mg/kg	0.22	ND
2-Nitrophenol	3	mg/kg	0.22	ND
3&4-Methylphenol	3	mg/kg	0.054	ND
3,3'-Dichlorobenzidine	3	mg/kg	0.22	ND
3-Nitroaniline	3	mg/kg	0.22	ND
4,6-Dinitro-2-methylphenol	3	mg/kg	1.1	ND
4-Bromophenyl-phenylether	3	mg/kg	0.22	ND
4-Chloro-3-methylphenol	3	mg/kg	0.22	ND
4-Chloroaniline	3	mg/kg	0.10	ND
4-Chlorophenyl-phenylether	3	mg/kg	0.22	ND
4-Nitroaniline	3	mg/kg	0.22	ND
4-Nitrophenol	3	mg/kg	0.22	ND
Acenaphthene	3	mg/kg	0.22	ND
Acenaphthylene	3	mg/kg	0.22	ND
Acetophenone	3	mg/kg	0.22	ND
Anthracene	3	mg/kg	0.22	ND
Atrazine	3	mg/kg	0.22	ND
Benzaldehyde	3	mg/kg	0.22	ND
Benzo[a]anthracene	**3**	**mg/kg**	**0.22**	**0.83**
Benzo[a]pyrene	**3**	**mg/kg**	**0.22**	**0.75**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.22**	**0.92**
Benzo[g,h,i]perylene	**3**	**mg/kg**	**0.22**	**0.72**
Benzo[k]fluoranthene	**3**	**mg/kg**	**0.22**	**0.28**
bis(2-Chloroethoxy)methane	3	mg/kg	0.22	ND
bis(2-Chloroethyl)ether	3	mg/kg	0.054	ND
bis(2-Chloroisopropyl)ether	3	mg/kg	0.22	ND
bis(2-Ethylhexyl)phthalate	3	mg/kg	0.22	ND
Butylbenzylphthalate	3	mg/kg	0.22	ND
Caprolactam	3	mg/kg	0.22	ND
Carbazole	3	mg/kg	0.22	ND
Chrysene	**3**	**mg/kg**	**0.22**	**0.78**
Dibenzo[a,h]anthracene	3	mg/kg	0.22	ND
Dibenzofuran	3	mg/kg	0.054	ND
Diethylphthalate	3	mg/kg	0.22	ND
Dimethylphthalate	3	mg/kg	0.22	ND
Di-n-butylphthalate	3	mg/kg	0.11	ND
Di-n-octylphthalate	3	mg/kg	0.22	ND

Fluoranthene	**3**	**mg/kg**	**0.22**	**1.2**
Fluorene	3	mg/kg	0.22	ND
Hexachlorobenzene	3	mg/kg	0.22	ND
Hexachlorobutadiene	3	mg/kg	0.22	ND
Hexachlorocyclopentadiene	3	mg/kg	0.22	ND
Hexachloroethane	3	mg/kg	0.22	ND
Indeno[1,2,3-cd]pyrene	**3**	**mg/kg**	**0.22**	**0.47**
Isophorone	3	mg/kg	0.22	ND
Naphthalene	3	mg/kg	0.054	ND
Nitrobenzene	3	mg/kg	0.22	ND
N-Nitroso-di-n-propylamine	3	mg/kg	0.054	ND
N-Nitrosodiphenylamine	3	mg/kg	0.22	ND
Pentachlorophenol	3	mg/kg	1.1	ND
Phenanthrene	**3**	**mg/kg**	**0.22**	**0.68**
Phenol	3	mg/kg	0.22	ND
Pyrene	**3**	**mg/kg**	**0.22**	**1.3**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**6100**
Arsenic	1	mg/kg	4.3	ND
Barium	**1**	**mg/kg**	**11**	**96**
Calcium	**1**	**mg/kg**	**1100**	**17000**
Chromium	**1**	**mg/kg**	**5.4**	**17**
Cobalt	**1**	**mg/kg**	**2.7**	**6.0**
Copper	**1**	**mg/kg**	**5.4**	**30**
Iron	**1**	**mg/kg**	**220**	**13000**
Lead	**1**	**mg/kg**	**5.4**	**140**
Magnesium	**1**	**mg/kg**	**540**	**5300**
Manganese	**1**	**mg/kg**	**11**	**250**
Nickel	**1**	**mg/kg**	**5.4**	**15**
Potassium	**1**	**mg/kg**	**540**	**1600**
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**31**
Zinc	**1**	**mg/kg**	**11**	**110**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.86	ND
Beryllium	1	mg/kg	0.22	ND
Cadmium	1	mg/kg	0.43	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.996	mg/kg	0.0021	ND
1,1,2,2-Tetrachloroethane	0.996	mg/kg	0.0021	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.996	mg/kg	0.0021	ND
1,1,2-Trichloroethane	0.996	mg/kg	0.0021	ND
1,1-Dichloroethane	0.996	mg/kg	0.0021	ND
1,1-Dichloroethene	0.996	mg/kg	0.0021	ND
1,2,3-Trichlorobenzene	0.996	mg/kg	0.0021	ND
1,2,4-Trichlorobenzene	0.996	mg/kg	0.0021	ND
1,2-Dibromo-3-chloropropane	0.996	mg/kg	0.0021	ND
1,2-Dibromoethane	0.996	mg/kg	0.0021	ND
1,2-Dichlorobenzene	0.996	mg/kg	0.0021	ND
1,2-Dichloroethane	0.996	mg/kg	0.0011	ND
1,2-Dichloropropane	0.996	mg/kg	0.0021	ND
1,3-Dichlorobenzene	0.996	mg/kg	0.0021	ND

Sample ID: SB-02-0-2.0' **Collection Date: 9/26/2014**
Lab#: AC81143-002 **Receipt Date: 9/29/2014**
Matrix: Soil

1,4-Dichlorobenzene	0.996	mg/kg	0.0021	ND
1,4-Dioxane	0.996	mg/kg	0.11	ND
2-Butanone	0.996	mg/kg	0.0021	ND
2-Hexanone	0.996	mg/kg	0.0021	ND
4-Methyl-2-pentanone	0.996	mg/kg	0.0021	ND
Acetone	0.996	mg/kg	0.011	ND
Benzene	0.996	mg/kg	0.0011	ND
Bromochloromethane	0.996	mg/kg	0.0021	ND
Bromodichloromethane	0.996	mg/kg	0.0021	ND
Bromoform	0.996	mg/kg	0.0021	ND
Bromomethane	0.996	mg/kg	0.0021	ND
Carbon disulfide	0.996	mg/kg	0.0021	ND
Carbon tetrachloride	0.996	mg/kg	0.0021	ND
Chlorobenzene	0.996	mg/kg	0.0021	ND
Chloroethane	0.996	mg/kg	0.0021	ND
Chloroform	0.996	mg/kg	0.0021	ND
Chloromethane	0.996	mg/kg	0.0021	ND
cis-1,2-Dichloroethene	0.996	mg/kg	0.0021	ND
cis-1,3-Dichloropropene	0.996	mg/kg	0.0021	ND
Cyclohexane	0.996	mg/kg	0.0021	ND
Dibromochloromethane	0.996	mg/kg	0.0021	ND
Dichlorodifluoromethane	0.996	mg/kg	0.0021	ND
Ethylbenzene	0.996	mg/kg	0.0011	ND
Isopropylbenzene	0.996	mg/kg	0.0011	ND
m&p-Xylenes	0.996	mg/kg	0.0011	ND
Methyl Acetate	0.996	mg/kg	0.0021	ND
Methylcyclohexane	0.996	mg/kg	0.0021	ND
Methylene chloride	**0.996**	**mg/kg**	**0.0021**	**0.041**
Methyl-t-butyl ether	0.996	mg/kg	0.0011	ND
o-Xylene	0.996	mg/kg	0.0011	ND
Styrene	0.996	mg/kg	0.0021	ND
Tetrachloroethene	0.996	mg/kg	0.0021	ND
Toluene	0.996	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.996	mg/kg	0.0021	ND
trans-1,3-Dichloropropene	0.996	mg/kg	0.0021	ND
Trichloroethene	0.996	mg/kg	0.0021	ND
Trichlorofluoromethane	0.996	mg/kg	0.0021	ND
Vinyl chloride	0.996	mg/kg	0.0021	ND
Xylenes (Total)	0.996	mg/kg	0.0011	ND

Sample ID: SB-02-5.0-7.0' **Collection Date: 9/26/2014**
Lab#: AC81143-003 **Receipt Date: 9/29/2014**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**90**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.093**	**0.60**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0056	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.028	ND
delta-BHC	1	mg/kg	0.0056	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0056	ND

Endosulfan II	1	mg/kg	0.0056	ND
Endosulfan Sulfate	1	mg/kg	0.0056	ND
Endrin	1	mg/kg	0.0056	ND
Endrin Aldehyde	1	mg/kg	0.0056	ND
Endrin Ketone	1	mg/kg	0.0056	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0056	ND
Heptachlor Epoxide	1	mg/kg	0.0056	ND
Methoxychlor	1	mg/kg	0.0056	ND
p,p'-DDD	1	mg/kg	0.0028	ND
p,p'-DDE	1	mg/kg	0.0028	ND
p,p'-DDT	1	mg/kg	0.0028	ND
Toxaphene	1	mg/kg	0.028	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.037	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.037	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.037	ND
2,4,5-Trichlorophenol	1	mg/kg	0.037	ND
2,4,6-Trichlorophenol	1	mg/kg	0.037	ND
2,4-Dichlorophenol	1	mg/kg	0.0093	ND
2,4-Dimethylphenol	1	mg/kg	0.0093	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.037	ND
2,6-Dinitrotoluene	1	mg/kg	0.037	ND
2-Chloronaphthalene	1	mg/kg	0.037	ND
2-Chlorophenol	1	mg/kg	0.037	ND
2-Methylnaphthalene	1	mg/kg	0.037	ND
2-Methylphenol	1	mg/kg	0.0093	ND
2-Nitroaniline	1	mg/kg	0.037	ND
2-Nitrophenol	1	mg/kg	0.037	ND
3&4-Methylphenol	1	mg/kg	0.0093	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.037	ND
3-Nitroaniline	1	mg/kg	0.037	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.037	ND
4-Chloro-3-methylphenol	1	mg/kg	0.037	ND
4-Chloroaniline	1	mg/kg	0.018	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.037	ND
4-Nitroaniline	1	mg/kg	0.037	ND
4-Nitrophenol	1	mg/kg	0.037	ND
Acenaphthene	1	mg/kg	0.037	ND
Acenaphthylene	1	mg/kg	0.037	ND
Acetophenone	1	mg/kg	0.037	ND
Anthracene	1	mg/kg	0.037	ND
Atrazine	1	mg/kg	0.037	ND
Benzaldehyde	1	mg/kg	0.037	ND

Benzo[a]anthracene	**1**	**mg/kg**	**0.037**	**0.15**
Benzo[a]pyrene	**1**	**mg/kg**	**0.037**	**0.14**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.037**	**0.17**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.037**	**0.11**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.037**	**0.054**
bis(2-Chloroethoxy)methane	1	mg/kg	0.037	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0093	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.037	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.037**	**0.065**
Butylbenzylphthalate	1	mg/kg	0.037	ND
Caprolactam	1	mg/kg	0.037	ND
Carbazole	1	mg/kg	0.037	ND
Chrysene	**1**	**mg/kg**	**0.037**	**0.14**
Dibenzo[a,h]anthracene	1	mg/kg	0.037	ND
Dibenzofuran	1	mg/kg	0.0093	ND
Diethylphthalate	1	mg/kg	0.037	ND
Dimethylphthalate	1	mg/kg	0.037	ND
Di-n-butylphthalate	1	mg/kg	0.019	ND
Di-n-octylphthalate	1	mg/kg	0.037	ND
Fluoranthene	**1**	**mg/kg**	**0.037**	**0.24**
Fluorene	1	mg/kg	0.037	ND
Hexachlorobenzene	1	mg/kg	0.037	ND
Hexachlorobutadiene	1	mg/kg	0.037	ND
Hexachlorocyclopentadiene	1	mg/kg	0.037	ND
Hexachloroethane	1	mg/kg	0.037	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.037**	**0.089**
Isophorone	1	mg/kg	0.037	ND
Naphthalene	1	mg/kg	0.0093	ND
Nitrobenzene	1	mg/kg	0.037	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0093	ND
N-Nitrosodiphenylamine	1	mg/kg	0.037	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	**1**	**mg/kg**	**0.037**	**0.15**
Phenol	1	mg/kg	0.037	ND
Pyrene	**1**	**mg/kg**	**0.037**	**0.26**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**8300**
Arsenic	1	mg/kg	4.4	ND
Barium	**1**	**mg/kg**	**11**	**57**
Calcium	**1**	**mg/kg**	**1100**	**7600**
Chromium	**1**	**mg/kg**	**5.6**	**15**
Cobalt	**1**	**mg/kg**	**2.8**	**5.2**
Copper	**1**	**mg/kg**	**5.6**	**22**
Iron	**1**	**mg/kg**	**220**	**13000**
Lead	**1**	**mg/kg**	**5.6**	**42**
Magnesium	**1**	**mg/kg**	**560**	**6200**
Manganese	**1**	**mg/kg**	**11**	**330**
Nickel	**1**	**mg/kg**	**5.6**	**21**
Potassium	**1**	**mg/kg**	**560**	**930**
Sodium	1	mg/kg	280	ND
Thallium	1	mg/kg	1.7	ND
Vanadium	**1**	**mg/kg**	**11**	**21**
Zinc	**1**	**mg/kg**	**11**	**46**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.89	ND
Beryllium	**1**	**mg/kg**	**0.22**	**0.43**
Cadmium	1	mg/kg	0.44	ND

Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.996	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.996	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.996	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.996	mg/kg	0.0022	ND
1,1-Dichloroethane	0.996	mg/kg	0.0022	ND
1,1-Dichloroethene	0.996	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.996	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.996	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.996	mg/kg	0.0022	ND
1,2-Dibromoethane	0.996	mg/kg	0.0022	ND
1,2-Dichlorobenzene	0.996	mg/kg	0.0022	ND
1,2-Dichloroethane	0.996	mg/kg	0.0011	ND
1,2-Dichloropropane	0.996	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.996	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.996	mg/kg	0.0022	ND
1,4-Dioxane	0.996	mg/kg	0.11	ND
2-Butanone	0.996	mg/kg	0.0022	ND
2-Hexanone	0.996	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.996	mg/kg	0.0022	ND
Acetone	0.996	mg/kg	0.011	ND
Benzene	0.996	mg/kg	0.0011	ND
Bromochloromethane	0.996	mg/kg	0.0022	ND
Bromodichloromethane	0.996	mg/kg	0.0022	ND
Bromoform	0.996	mg/kg	0.0022	ND
Bromomethane	0.996	mg/kg	0.0022	ND
Carbon disulfide	0.996	mg/kg	0.0022	ND
Carbon tetrachloride	0.996	mg/kg	0.0022	ND
Chlorobenzene	0.996	mg/kg	0.0022	ND
Chloroethane	0.996	mg/kg	0.0022	ND
Chloroform	0.996	mg/kg	0.0022	ND
Chloromethane	0.996	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.996	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.996	mg/kg	0.0022	ND
Cyclohexane	0.996	mg/kg	0.0022	ND
Dibromochloromethane	0.996	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.996	mg/kg	0.0022	ND
Ethylbenzene	0.996	mg/kg	0.0011	ND
Isopropylbenzene	0.996	mg/kg	0.0011	ND
m&p-Xylenes	0.996	mg/kg	0.0011	ND
Methyl Acetate	0.996	mg/kg	0.0022	ND
Methylcyclohexane	0.996	mg/kg	0.0022	ND
Methylene chloride	**0.996**	**mg/kg**	**0.0022**	**0.012**
Methyl-t-butyl ether	0.996	mg/kg	0.0011	ND
o-Xylene	0.996	mg/kg	0.0011	ND
Styrene	0.996	mg/kg	0.0022	ND
Tetrachloroethene	0.996	mg/kg	0.0022	ND
Toluene	0.996	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.996	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.996	mg/kg	0.0022	ND
Trichloroethene	0.996	mg/kg	0.0022	ND
Trichlorofluoromethane	0.996	mg/kg	0.0022	ND
Vinyl chloride	0.996	mg/kg	0.0022	ND
Xylenes (Total)	0.996	mg/kg	0.0011	ND

Sample ID:	**MW-04-0-2.0'**	**Collection Date:**	**9/26/2014**
Lab#:	**AC81143-004**	**Receipt Date:**	**9/29/2014**
Matrix:	**Soil**		

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**89**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.094**	**1.6**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0056	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.028	ND
delta-BHC	1	mg/kg	0.0056	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0056	ND
Endosulfan II	1	mg/kg	0.0056	ND
Endosulfan Sulfate	1	mg/kg	0.0056	ND
Endrin	1	mg/kg	0.0056	ND
Endrin Aldehyde	1	mg/kg	0.0056	ND
Endrin Ketone	1	mg/kg	0.0056	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0056	ND
Heptachlor Epoxide	1	mg/kg	0.0056	ND
Methoxychlor	1	mg/kg	0.0056	ND
p,p'-DDD	1	mg/kg	0.0028	ND
p,p'-DDE	1	mg/kg	0.0028	ND
p,p'-DDT	**1**	**mg/kg**	**0.0028**	**0.0039**
Toxaphene	1	mg/kg	0.028	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.075	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.075	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.075	ND
2,4,5-Trichlorophenol	1	mg/kg	0.075	ND
2,4,6-Trichlorophenol	1	mg/kg	0.075	ND
2,4-Dichlorophenol	1	mg/kg	0.019	ND
2,4-Dimethylphenol	1	mg/kg	0.019	ND
2,4-Dinitrophenol	1	mg/kg	0.37	ND
2,4-Dinitrotoluene	1	mg/kg	0.075	ND
2,6-Dinitrotoluene	1	mg/kg	0.075	ND
2-Chloronaphthalene	1	mg/kg	0.075	ND
2-Chlorophenol	1	mg/kg	0.075	ND
2-Methylnaphthalene	1	mg/kg	0.075	ND
2-Methylphenol	1	mg/kg	0.019	ND
2-Nitroaniline	1	mg/kg	0.075	ND

2-Nitrophenol	1	mg/kg	0.075	ND
3&4-Methylphenol	1	mg/kg	0.019	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.075	ND
3-Nitroaniline	1	mg/kg	0.075	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.37	ND
4-Bromophenyl-phenylether	1	mg/kg	0.075	ND
4-Chloro-3-methylphenol	1	mg/kg	0.075	ND
4-Chloroaniline	1	mg/kg	0.036	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.075	ND
4-Nitroaniline	1	mg/kg	0.075	ND
4-Nitrophenol	1	mg/kg	0.075	ND
Acenaphthene	1	mg/kg	0.075	ND
Acenaphthylene	**1**	**mg/kg**	**0.075**	**0.078**
Acetophenone	1	mg/kg	0.075	ND
Anthracene	**1**	**mg/kg**	**0.075**	**0.16**
Atrazine	1	mg/kg	0.075	ND
Benzaldehyde	1	mg/kg	0.075	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.075**	**0.87**
Benzo[a]pyrene	**1**	**mg/kg**	**0.075**	**0.85**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.075**	**1.1**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.075**	**0.80**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.075**	**0.29**
bis(2-Chloroethoxy)methane	1	mg/kg	0.075	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.019	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.075	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.075	ND
Butylbenzylphthalate	1	mg/kg	0.075	ND
Caprolactam	1	mg/kg	0.075	ND
Carbazole	1	mg/kg	0.075	ND
Chrysene	**1**	**mg/kg**	**0.075**	**0.75**
Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.075**	**0.17**
Dibenzofuran	**1**	**mg/kg**	**0.019**	**0.021**
Diethylphthalate	1	mg/kg	0.075	ND
Dimethylphthalate	1	mg/kg	0.075	ND
Di-n-butylphthalate	**1**	**mg/kg**	**0.038**	**0.043**
Di-n-octylphthalate	1	mg/kg	0.075	ND
Fluoranthene	**1**	**mg/kg**	**0.075**	**1.4**
Fluorene	1	mg/kg	0.075	ND
Hexachlorobenzene	1	mg/kg	0.075	ND
Hexachlorobutadiene	1	mg/kg	0.075	ND
Hexachlorocyclopentadiene	1	mg/kg	0.075	ND
Hexachloroethane	1	mg/kg	0.075	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.075**	**0.60**
Isophorone	1	mg/kg	0.075	ND
Naphthalene	**1**	**mg/kg**	**0.019**	**0.032**
Nitrobenzene	1	mg/kg	0.075	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.019	ND
N-Nitrosodiphenylamine	1	mg/kg	0.075	ND
Pentachlorophenol	1	mg/kg	0.37	ND
Phenanthrene	**1**	**mg/kg**	**0.075**	**0.73**
Phenol	1	mg/kg	0.075	ND
Pyrene	**1**	**mg/kg**	**0.075**	**1.3**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**5400**
Arsenic	**1**	**mg/kg**	**4.5**	**4.5**
Barium	**1**	**mg/kg**	**11**	**140**
Calcium	**1**	**mg/kg**	**1100**	**15000**
Chromium	**1**	**mg/kg**	**5.6**	**19**
Cobalt	**1**	**mg/kg**	**2.8**	**5.1**

Copper	**1**	**mg/kg**	**5.6**	**52**
Iron	**1**	**mg/kg**	**220**	**12000**
Lead	**1**	**mg/kg**	**5.6**	**280**
Magnesium	**1**	**mg/kg**	**560**	**2700**
Manganese	**1**	**mg/kg**	**11**	**210**
Nickel	**1**	**mg/kg**	**5.6**	**13**
Potassium	**1**	**mg/kg**	**560**	**1000**
Sodium	**1**	**mg/kg**	**280**	**360**
Thallium	1	mg/kg	1.7	ND
Vanadium	**1**	**mg/kg**	**11**	**28**
Zinc	**1**	**mg/kg**	**11**	**200**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.90	ND
Beryllium	**1**	**mg/kg**	**0.22**	**0.23**
Cadmium	**1**	**mg/kg**	**0.45**	**0.92**
Selenium	1	mg/kg	2.2	ND
Silver	**1**	**mg/kg**	**0.22**	**0.23**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.986	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.986	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.986	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.986	mg/kg	0.0022	ND
1,1-Dichloroethane	0.986	mg/kg	0.0022	ND
1,1-Dichloroethene	0.986	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.986	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.986	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.986	mg/kg	0.0022	ND
1,2-Dibromoethane	0.986	mg/kg	0.0022	ND
1,2-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,2-Dichloroethane	0.986	mg/kg	0.0011	ND
1,2-Dichloropropane	0.986	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,4-Dioxane	0.986	mg/kg	0.11	ND
2-Butanone	0.986	mg/kg	0.0022	ND
2-Hexanone	0.986	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.986	mg/kg	0.0022	ND
Acetone	0.986	mg/kg	0.011	ND
Benzene	0.986	mg/kg	0.0011	ND
Bromochloromethane	0.986	mg/kg	0.0022	ND
Bromodichloromethane	0.986	mg/kg	0.0022	ND
Bromoform	0.986	mg/kg	0.0022	ND
Bromomethane	0.986	mg/kg	0.0022	ND
Carbon disulfide	0.986	mg/kg	0.0022	ND
Carbon tetrachloride	0.986	mg/kg	0.0022	ND
Chlorobenzene	0.986	mg/kg	0.0022	ND
Chloroethane	0.986	mg/kg	0.0022	ND
Chloroform	0.986	mg/kg	0.0022	ND
Chloromethane	0.986	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.986	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.986	mg/kg	0.0022	ND
Cyclohexane	0.986	mg/kg	0.0022	ND
Dibromochloromethane	0.986	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.986	mg/kg	0.0022	ND
Ethylbenzene	0.986	mg/kg	0.0011	ND
Isopropylbenzene	0.986	mg/kg	0.0011	ND
m&p-Xylenes	0.986	mg/kg	0.0011	ND

Sample ID: MW-04-0-2.0' **Collection Date: 9/26/2014**
Lab#: AC81143-004 **Receipt Date: 9/29/2014**
Matrix: Soil

Methyl Acetate	0.986	mg/kg	0.0022	ND
Methylcyclohexane	0.986	mg/kg	0.0022	ND
Methylene chloride	**0.986**	**mg/kg**	**0.0022**	**0.022**
Methyl-t-butyl ether	0.986	mg/kg	0.0011	ND
o-Xylene	0.986	mg/kg	0.0011	ND
Styrene	0.986	mg/kg	0.0022	ND
Tetrachloroethene	0.986	mg/kg	0.0022	ND
Toluene	0.986	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.986	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.986	mg/kg	0.0022	ND
Trichloroethene	0.986	mg/kg	0.0022	ND
Trichlorofluoromethane	0.986	mg/kg	0.0022	ND
Vinyl chloride	0.986	mg/kg	0.0022	ND
Xylenes (Total)	0.986	mg/kg	0.0011	ND

Sample ID: MW-04-2.0-4.0' **Collection Date: 9/26/2014**
Lab#: AC81143-005 **Receipt Date: 9/29/2014**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**91**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.092**	**0.79**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0055	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0055	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0055	ND
Endosulfan II	1	mg/kg	0.0055	ND
Endosulfan Sulfate	1	mg/kg	0.0055	ND
Endrin	1	mg/kg	0.0055	ND
Endrin Aldehyde	1	mg/kg	0.0055	ND
Endrin Ketone	1	mg/kg	0.0055	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0055	ND
Heptachlor Epoxide	1	mg/kg	0.0055	ND
Methoxychlor	1	mg/kg	0.0055	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	**1**	**mg/kg**	**0.0027**	**0.0054**
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND

Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.037	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.037	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.037	ND
2,4,5-Trichlorophenol	1	mg/kg	0.037	ND
2,4,6-Trichlorophenol	1	mg/kg	0.037	ND
2,4-Dichlorophenol	1	mg/kg	0.0092	ND
2,4-Dimethylphenol	1	mg/kg	0.0092	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.037	ND
2,6-Dinitrotoluene	1	mg/kg	0.037	ND
2-Chloronaphthalene	1	mg/kg	0.037	ND
2-Chlorophenol	1	mg/kg	0.037	ND
2-Methylnaphthalene	1	mg/kg	0.037	ND
2-Methylphenol	1	mg/kg	0.0092	ND
2-Nitroaniline	1	mg/kg	0.037	ND
2-Nitrophenol	1	mg/kg	0.037	ND
3&4-Methylphenol	1	mg/kg	0.0092	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.037	ND
3-Nitroaniline	1	mg/kg	0.037	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.037	ND
4-Chloro-3-methylphenol	1	mg/kg	0.037	ND
4-Chloroaniline	1	mg/kg	0.017	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.037	ND
4-Nitroaniline	1	mg/kg	0.037	ND
4-Nitrophenol	1	mg/kg	0.037	ND
Acenaphthene	1	mg/kg	0.037	ND
Acenaphthylene	1	mg/kg	0.037	ND
Acetophenone	1	mg/kg	0.037	ND
Anthracene	1	mg/kg	0.037	ND
Atrazine	1	mg/kg	0.037	ND
Benzaldehyde	1	mg/kg	0.037	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.037**	**0.16**
Benzo[a]pyrene	**1**	**mg/kg**	**0.037**	**0.15**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.037**	**0.19**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.037**	**0.12**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.037**	**0.069**
bis(2-Chloroethoxy)methane	1	mg/kg	0.037	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.0092	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.037	ND
bis(2-Ethylhexyl)phthalate	**1**	**mg/kg**	**0.037**	**0.097**
Butylbenzylphthalate	1	mg/kg	0.037	ND
Caprolactam	1	mg/kg	0.037	ND
Carbazole	1	mg/kg	0.037	ND
Chrysene	**1**	**mg/kg**	**0.037**	**0.18**
Dibenzo[a,h]anthracene	1	mg/kg	0.037	ND
Dibenzofuran	1	mg/kg	0.0092	ND
Diethylphthalate	1	mg/kg	0.037	ND
Dimethylphthalate	1	mg/kg	0.037	ND
Di-n-butylphthalate	1	mg/kg	0.018	ND
Di-n-octylphthalate	1	mg/kg	0.037	ND
Fluoranthene	**1**	**mg/kg**	**0.037**	**0.24**
Fluorene	1	mg/kg	0.037	ND
Hexachlorobenzene	1	mg/kg	0.037	ND
Hexachlorobutadiene	1	mg/kg	0.037	ND
Hexachlorocyclopentadiene	1	mg/kg	0.037	ND
Hexachloroethane	1	mg/kg	0.037	ND

Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.037**	**0.10**
Isophorone	1	mg/kg	0.037	ND
Naphthalene	1	mg/kg	0.0092	ND
Nitrobenzene	1	mg/kg	0.037	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0092	ND
N-Nitrosodiphenylamine	1	mg/kg	0.037	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	**1**	**mg/kg**	**0.037**	**0.11**
Phenol	1	mg/kg	0.037	ND
Pyrene	**1**	**mg/kg**	**0.037**	**0.25**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**5600**
Arsenic	1	mg/kg	4.4	ND
Barium	**1**	**mg/kg**	**11**	**63**
Calcium	**1**	**mg/kg**	**1100**	**3300**
Chromium	**1**	**mg/kg**	**5.5**	**11**
Cobalt	**1**	**mg/kg**	**2.7**	**4.1**
Copper	**1**	**mg/kg**	**5.5**	**18**
Iron	**1**	**mg/kg**	**220**	**10000**
Lead	**1**	**mg/kg**	**5.5**	**53**
Magnesium	**1**	**mg/kg**	**550**	**2400**
Manganese	**1**	**mg/kg**	**11**	**320**
Nickel	**1**	**mg/kg**	**5.5**	**9.6**
Potassium	**1**	**mg/kg**	**550**	**1000**
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**15**
Zinc	**1**	**mg/kg**	**11**	**42**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.88	ND
Beryllium	**1**	**mg/kg**	**0.22**	**0.24**
Cadmium	1	mg/kg	0.44	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.998	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.998	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.998	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.998	mg/kg	0.0022	ND
1,1-Dichloroethane	0.998	mg/kg	0.0022	ND
1,1-Dichloroethene	0.998	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.998	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.998	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.998	mg/kg	0.0022	ND
1,2-Dibromoethane	0.998	mg/kg	0.0022	ND
1,2-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,2-Dichloroethane	0.998	mg/kg	0.0011	ND
1,2-Dichloropropane	0.998	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.998	mg/kg	0.0022	ND
1,4-Dioxane	0.998	mg/kg	0.11	ND
2-Butanone	0.998	mg/kg	0.0022	ND
2-Hexanone	0.998	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.998	mg/kg	0.0022	ND
Acetone	0.998	mg/kg	0.011	ND

Sample ID: MW-04-2.0-4.0' **Collection Date: 9/26/2014**
Lab#: AC81143-005 **Receipt Date: 9/29/2014**
Matrix: Soil

Benzene	0.998	mg/kg	0.0011	ND
Bromochloromethane	0.998	mg/kg	0.0022	ND
Bromodichloromethane	0.998	mg/kg	0.0022	ND
Bromoform	0.998	mg/kg	0.0022	ND
Bromomethane	0.998	mg/kg	0.0022	ND
Carbon disulfide	0.998	mg/kg	0.0022	ND
Carbon tetrachloride	0.998	mg/kg	0.0022	ND
Chlorobenzene	0.998	mg/kg	0.0022	ND
Chloroethane	0.998	mg/kg	0.0022	ND
Chloroform	0.998	mg/kg	0.0022	ND
Chloromethane	0.998	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.998	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.998	mg/kg	0.0022	ND
Cyclohexane	0.998	mg/kg	0.0022	ND
Dibromochloromethane	0.998	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.998	mg/kg	0.0022	ND
Ethylbenzene	0.998	mg/kg	0.0011	ND
Isopropylbenzene	0.998	mg/kg	0.0011	ND
m&p-Xylenes	0.998	mg/kg	0.0011	ND
Methyl Acetate	0.998	mg/kg	0.0022	ND
Methylcyclohexane	0.998	mg/kg	0.0022	ND
Methylene chloride	**0.998**	**mg/kg**	**0.0022**	**0.068**
Methyl-t-butyl ether	0.998	mg/kg	0.0011	ND
o-Xylene	0.998	mg/kg	0.0011	ND
Styrene	0.998	mg/kg	0.0022	ND
Tetrachloroethene	0.998	mg/kg	0.0022	ND
Toluene	0.998	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.998	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.998	mg/kg	0.0022	ND
Trichloroethene	0.998	mg/kg	0.0022	ND
Trichlorofluoromethane	0.998	mg/kg	0.0022	ND
Vinyl chloride	0.998	mg/kg	0.0022	ND
Xylenes (Total)	0.998	mg/kg	0.0011	ND

Sample ID: SB-05-2.0-4.0' **Collection Date: 9/26/2014**
Lab#: AC81143-006 **Receipt Date: 9/29/2014**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**88**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.095**	**0.21**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0057	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.028	ND
delta-BHC	1	mg/kg	0.0057	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0057	ND
Endosulfan II	1	mg/kg	0.0057	ND
Endosulfan Sulfate	1	mg/kg	0.0057	ND
Endrin	1	mg/kg	0.0057	ND
Endrin Aldehyde	1	mg/kg	0.0057	ND
Endrin Ketone	1	mg/kg	0.0057	ND
gamma-BHC	1	mg/kg	0.0011	ND

Heptachlor	1	mg/kg	0.0057	ND
Heptachlor Epoxide	1	mg/kg	0.0057	ND
Methoxychlor	1	mg/kg	0.0057	ND
p,p'-DDD	1	mg/kg	0.0028	ND
p,p'-DDE	1	mg/kg	0.0028	ND
p,p'-DDT	**1**	**mg/kg**	**0.0028**	**0.0086**
Toxaphene	1	mg/kg	0.028	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	5	mg/kg	0.38	ND
1,2,4,5-Tetrachlorobenzene	5	mg/kg	0.38	ND
2,3,4,6-Tetrachlorophenol	5	mg/kg	0.38	ND
2,4,5-Trichlorophenol	5	mg/kg	0.38	ND
2,4,6-Trichlorophenol	5	mg/kg	0.38	ND
2,4-Dichlorophenol	5	mg/kg	0.095	ND
2,4-Dimethylphenol	5	mg/kg	0.095	ND
2,4-Dinitrophenol	5	mg/kg	1.9	ND
2,4-Dinitrotoluene	5	mg/kg	0.38	ND
2,6-Dinitrotoluene	5	mg/kg	0.38	ND
2-Chloronaphthalene	5	mg/kg	0.38	ND
2-Chlorophenol	5	mg/kg	0.38	ND
2-Methylnaphthalene	5	mg/kg	0.38	ND
2-Methylphenol	5	mg/kg	0.095	ND
2-Nitroaniline	5	mg/kg	0.38	ND
2-Nitrophenol	5	mg/kg	0.38	ND
3&4-Methylphenol	5	mg/kg	0.095	ND
3,3'-Dichlorobenzidine	5	mg/kg	0.38	ND
3-Nitroaniline	5	mg/kg	0.38	ND
4,6-Dinitro-2-methylphenol	5	mg/kg	1.9	ND
4-Bromophenyl-phenylether	5	mg/kg	0.38	ND
4-Chloro-3-methylphenol	5	mg/kg	0.38	ND
4-Chloroaniline	5	mg/kg	0.18	ND
4-Chlorophenyl-phenylether	5	mg/kg	0.38	ND
4-Nitroaniline	5	mg/kg	0.38	ND
4-Nitrophenol	5	mg/kg	0.38	ND
Acenaphthene	**5**	**mg/kg**	**0.38**	**2.0**
Acenaphthylene	5	mg/kg	0.38	ND
Acetophenone	5	mg/kg	0.38	ND
Anthracene	**5**	**mg/kg**	**0.38**	**5.0**
Atrazine	5	mg/kg	0.38	ND
Benzaldehyde	5	mg/kg	0.38	ND
Benzo[a]anthracene	**5**	**mg/kg**	**0.38**	**9.7**
Benzo[a]pyrene	**5**	**mg/kg**	**0.38**	**8.1**
Benzo[b]fluoranthene	**5**	**mg/kg**	**0.38**	**9.3**
Benzo[g,h,i]perylene	**5**	**mg/kg**	**0.38**	**5.8**
Benzo[k]fluoranthene	**5**	**mg/kg**	**0.38**	**3.3**
bis(2-Chloroethoxy)methane	5	mg/kg	0.38	ND

bis(2-Chloroethyl)ether	5	mg/kg	0.095	ND
bis(2-Chloroisopropyl)ether	5	mg/kg	0.38	ND
bis(2-Ethylhexyl)phthalate	5	mg/kg	0.38	ND
Butylbenzylphthalate	5	mg/kg	0.38	ND
Caprolactam	5	mg/kg	0.38	ND
Carbazole	**5**	**mg/kg**	**0.38**	**0.95**
Chrysene	**5**	**mg/kg**	**0.38**	**8.2**
Dibenzo[a,h]anthracene	**5**	**mg/kg**	**0.38**	**1.3**
Dibenzofuran	**5**	**mg/kg**	**0.095**	**1.0**
Diethylphthalate	5	mg/kg	0.38	ND
Dimethylphthalate	5	mg/kg	0.38	ND
Di-n-butylphthalate	5	mg/kg	0.19	ND
Di-n-octylphthalate	5	mg/kg	0.38	ND
Fluoranthene	**5**	**mg/kg**	**0.38**	**23**
Fluorene	**5**	**mg/kg**	**0.38**	**1.5**
Hexachlorobenzene	5	mg/kg	0.38	ND
Hexachlorobutadiene	5	mg/kg	0.38	ND
Hexachlorocyclopentadiene	5	mg/kg	0.38	ND
Hexachloroethane	5	mg/kg	0.38	ND
Indeno[1,2,3-cd]pyrene	**5**	**mg/kg**	**0.38**	**4.8**
Isophorone	5	mg/kg	0.38	ND
Naphthalene	**5**	**mg/kg**	**0.095**	**0.36**
Nitrobenzene	5	mg/kg	0.38	ND
N-Nitroso-di-n-propylamine	5	mg/kg	0.095	ND
N-Nitrosodiphenylamine	5	mg/kg	0.38	ND
Pentachlorophenol	5	mg/kg	1.9	ND
Phenanthrene	**5**	**mg/kg**	**0.38**	**23**
Phenol	5	mg/kg	0.38	ND
Pyrene	**5**	**mg/kg**	**0.38**	**22**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**230**	**8000**
Arsenic	**1**	**mg/kg**	**4.5**	**7.9**
Barium	**1**	**mg/kg**	**11**	**48**
Calcium	**1**	**mg/kg**	**1100**	**22000**
Chromium	**1**	**mg/kg**	**5.7**	**11**
Cobalt	**1**	**mg/kg**	**2.8**	**26**
Copper	**1**	**mg/kg**	**5.7**	**64**
Iron	**1**	**mg/kg**	**230**	**15000**
Lead	**1**	**mg/kg**	**5.7**	**22**
Magnesium	**1**	**mg/kg**	**570**	**3000**
Manganese	**1**	**mg/kg**	**11**	**330**
Nickel	**1**	**mg/kg**	**5.7**	**37**
Potassium	**1**	**mg/kg**	**570**	**960**
Sodium	1	mg/kg	280	ND
Thallium	1	mg/kg	1.7	ND
Vanadium	**1**	**mg/kg**	**11**	**17**
Zinc	**1**	**mg/kg**	**11**	**150**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.91	ND
Beryllium	**1**	**mg/kg**	**0.23**	**0.37**
Cadmium	1	mg/kg	0.45	ND
Selenium	1	mg/kg	2.3	ND
Silver	1	mg/kg	0.23	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.996	mg/kg	0.0023	ND

Sample ID: SB-05-2.0-4.0' **Collection Date: 9/26/2014**
Lab#: AC81143-006 **Receipt Date: 9/29/2014**
Matrix: Soil

1,1,2,2-Tetrachloroethane	0.996	mg/kg	0.0023	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.996	mg/kg	0.0023	ND
1,1,2-Trichloroethane	0.996	mg/kg	0.0023	ND
1,1-Dichloroethane	0.996	mg/kg	0.0023	ND
1,1-Dichloroethene	0.996	mg/kg	0.0023	ND
1,2,3-Trichlorobenzene	0.996	mg/kg	0.0023	ND
1,2,4-Trichlorobenzene	0.996	mg/kg	0.0023	ND
1,2-Dibromo-3-chloropropane	0.996	mg/kg	0.0023	ND
1,2-Dibromoethane	0.996	mg/kg	0.0023	ND
1,2-Dichlorobenzene	0.996	mg/kg	0.0023	ND
1,2-Dichloroethane	0.996	mg/kg	0.0011	ND
1,2-Dichloropropane	0.996	mg/kg	0.0023	ND
1,3-Dichlorobenzene	0.996	mg/kg	0.0023	ND
1,4-Dichlorobenzene	0.996	mg/kg	0.0023	ND
1,4-Dioxane	0.996	mg/kg	0.11	ND
2-Butanone	0.996	mg/kg	0.0023	ND
2-Hexanone	0.996	mg/kg	0.0023	ND
4-Methyl-2-pentanone	0.996	mg/kg	0.0023	ND
Acetone	0.996	mg/kg	0.011	ND
Benzene	0.996	mg/kg	0.0011	ND
Bromochloromethane	0.996	mg/kg	0.0023	ND
Bromodichloromethane	0.996	mg/kg	0.0023	ND
Bromoform	0.996	mg/kg	0.0023	ND
Bromomethane	0.996	mg/kg	0.0023	ND
Carbon disulfide	0.996	mg/kg	0.0023	ND
Carbon tetrachloride	0.996	mg/kg	0.0023	ND
Chlorobenzene	0.996	mg/kg	0.0023	ND
Chloroethane	0.996	mg/kg	0.0023	ND
Chloroform	0.996	mg/kg	0.0023	ND
Chloromethane	0.996	mg/kg	0.0023	ND
cis-1,2-Dichloroethene	0.996	mg/kg	0.0023	ND
cis-1,3-Dichloropropene	0.996	mg/kg	0.0023	ND
Cyclohexane	0.996	mg/kg	0.0023	ND
Dibromochloromethane	0.996	mg/kg	0.0023	ND
Dichlorodifluoromethane	0.996	mg/kg	0.0023	ND
Ethylbenzene	0.996	mg/kg	0.0011	ND
Isopropylbenzene	0.996	mg/kg	0.0011	ND
m&p-Xylenes	0.996	mg/kg	0.0011	ND
Methyl Acetate	0.996	mg/kg	0.0023	ND
Methylcyclohexane	0.996	mg/kg	0.0023	ND
Methylene chloride	**0.996**	**mg/kg**	**0.0023**	**0.029**
Methyl-t-butyl ether	0.996	mg/kg	0.0011	ND
o-Xylene	0.996	mg/kg	0.0011	ND
Styrene	0.996	mg/kg	0.0023	ND
Tetrachloroethene	0.996	mg/kg	0.0023	ND
Toluene	0.996	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.996	mg/kg	0.0023	ND
trans-1,3-Dichloropropene	0.996	mg/kg	0.0023	ND
Trichloroethene	0.996	mg/kg	0.0023	ND
Trichlorofluoromethane	0.996	mg/kg	0.0023	ND
Vinyl chloride	0.996	mg/kg	0.0023	ND
Xylenes (Total)	0.996	mg/kg	0.0011	ND

Sample ID: MW-05-2.0-4.0' **Collection Date: 9/26/2014**
Lab#: AC81143-007 **Receipt Date: 9/29/2014**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**89**

Sample ID:	**MW-05-2.0-4.0'**	**Collection Date:**	**9/26/2014**
Lab#:	**AC81143-007**	**Receipt Date:**	**9/29/2014**
Matrix:	**Soil**		

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.094**	**0.81**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0056	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.028	ND
delta-BHC	1	mg/kg	0.0056	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0056	ND
Endosulfan II	1	mg/kg	0.0056	ND
Endosulfan Sulfate	1	mg/kg	0.0056	ND
Endrin	1	mg/kg	0.0056	ND
Endrin Aldehyde	1	mg/kg	0.0056	ND
Endrin Ketone	1	mg/kg	0.0056	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0056	ND
Heptachlor Epoxide	1	mg/kg	0.0056	ND
Methoxychlor	1	mg/kg	0.0056	ND
p,p'-DDD	1	mg/kg	0.0028	ND
p,p'-DDE	1	mg/kg	0.0028	ND
p,p'-DDT	1	mg/kg	0.0028	ND
Toxaphene	1	mg/kg	0.028	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	3	mg/kg	0.22	ND
1,2,4,5-Tetrachlorobenzene	3	mg/kg	0.22	ND
2,3,4,6-Tetrachlorophenol	3	mg/kg	0.22	ND
2,4,5-Trichlorophenol	3	mg/kg	0.22	ND
2,4,6-Trichlorophenol	3	mg/kg	0.22	ND
2,4-Dichlorophenol	3	mg/kg	0.056	ND
2,4-Dimethylphenol	3	mg/kg	0.056	ND
2,4-Dinitrophenol	3	mg/kg	1.1	ND
2,4-Dinitrotoluene	3	mg/kg	0.22	ND
2,6-Dinitrotoluene	3	mg/kg	0.22	ND
2-Chloronaphthalene	3	mg/kg	0.22	ND
2-Chlorophenol	3	mg/kg	0.22	ND
2-Methylnaphthalene	3	mg/kg	0.22	ND
2-Methylphenol	3	mg/kg	0.056	ND
2-Nitroaniline	3	mg/kg	0.22	ND
2-Nitrophenol	3	mg/kg	0.22	ND
3&4-Methylphenol	3	mg/kg	0.056	ND
3,3'-Dichlorobenzidine	3	mg/kg	0.22	ND
3-Nitroaniline	3	mg/kg	0.22	ND

Sample ID: MW-05-2.0-4.0' **Collection Date: 9/26/2014**
Lab#: AC81143-007 **Receipt Date: 9/29/2014**
Matrix: Soil

4,6-Dinitro-2-methylphenol	3	mg/kg	1.1	ND
4-Bromophenyl-phenylether	3	mg/kg	0.22	ND
4-Chloro-3-methylphenol	3	mg/kg	0.22	ND
4-Chloroaniline	3	mg/kg	0.11	ND
4-Chlorophenyl-phenylether	3	mg/kg	0.22	ND
4-Nitroaniline	3	mg/kg	0.22	ND
4-Nitrophenol	3	mg/kg	0.22	ND
Acenaphthene	**3**	**mg/kg**	**0.22**	**1.8**
Acenaphthylene	3	mg/kg	0.22	ND
Acetophenone	3	mg/kg	0.22	ND
Anthracene	**3**	**mg/kg**	**0.22**	**6.2**
Atrazine	3	mg/kg	0.22	ND
Benzaldehyde	3	mg/kg	0.22	ND
Benzo[a]anthracene	**3**	**mg/kg**	**0.22**	**8.9**
Benzo[a]pyrene	**3**	**mg/kg**	**0.22**	**5.9**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.22**	**8.2**
Benzo[g,h,i]perylene	**3**	**mg/kg**	**0.22**	**3.0**
Benzo[k]fluoranthene	**3**	**mg/kg**	**0.22**	**2.3**
bis(2-Chloroethoxy)methane	3	mg/kg	0.22	ND
bis(2-Chloroethyl)ether	3	mg/kg	0.056	ND
bis(2-Chloroisopropyl)ether	3	mg/kg	0.22	ND
bis(2-Ethylhexyl)phthalate	3	mg/kg	0.22	ND
Butylbenzylphthalate	3	mg/kg	0.22	ND
Caprolactam	3	mg/kg	0.22	ND
Carbazole	**3**	**mg/kg**	**0.22**	**1.4**
Chrysene	**3**	**mg/kg**	**0.22**	**7.2**
Dibenzo[a,h]anthracene	**3**	**mg/kg**	**0.22**	**1.1**
Dibenzofuran	**3**	**mg/kg**	**0.056**	**1.2**
Diethylphthalate	3	mg/kg	0.22	ND
Dimethylphthalate	3	mg/kg	0.22	ND
Di-n-butylphthalate	3	mg/kg	0.11	ND
Di-n-octylphthalate	3	mg/kg	0.22	ND
Fluoranthene	**3**	**mg/kg**	**0.22**	**21**
Fluorene	**3**	**mg/kg**	**0.22**	**1.9**
Hexachlorobenzene	3	mg/kg	0.22	ND
Hexachlorobutadiene	3	mg/kg	0.22	ND
Hexachlorocyclopentadiene	3	mg/kg	0.22	ND
Hexachloroethane	3	mg/kg	0.22	ND
Indeno[1,2,3-cd]pyrene	**3**	**mg/kg**	**0.22**	**3.1**
Isophorone	3	mg/kg	0.22	ND
Naphthalene	**3**	**mg/kg**	**0.056**	**0.15**
Nitrobenzene	3	mg/kg	0.22	ND
N-Nitroso-di-n-propylamine	3	mg/kg	0.056	ND
N-Nitrosodiphenylamine	3	mg/kg	0.22	ND
Pentachlorophenol	3	mg/kg	1.1	ND
Phenanthrene	**3**	**mg/kg**	**0.22**	**22E**
Phenol	3	mg/kg	0.22	ND
Pyrene	**3**	**mg/kg**	**0.22**	**16**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**6600**
Arsenic	**1**	**mg/kg**	**4.5**	**5.0**
Barium	**1**	**mg/kg**	**11**	**150**
Calcium	**1**	**mg/kg**	**1100**	**18000**
Chromium	**1**	**mg/kg**	**5.6**	**14**
Cobalt	**1**	**mg/kg**	**2.8**	**24**
Copper	**1**	**mg/kg**	**5.6**	**37**
Iron	**1**	**mg/kg**	**220**	**15000**
Lead	**1**	**mg/kg**	**5.6**	**220**
Magnesium	**1**	**mg/kg**	**560**	**5800**

Manganese	**1**	**mg/kg**	**11**	**250**
Nickel	**1**	**mg/kg**	**5.6**	**14**
Potassium	**1**	**mg/kg**	**560**	**1200**
Sodium	1	mg/kg	280	ND
Thallium	1	mg/kg	1.7	ND
Vanadium	**1**	**mg/kg**	**11**	**22**
Zinc	**1**	**mg/kg**	**11**	**200**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.90	ND
Beryllium	**1**	**mg/kg**	**0.22**	**0.28**
Cadmium	1	mg/kg	0.45	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.986	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.986	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.986	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.986	mg/kg	0.0022	ND
1,1-Dichloroethane	0.986	mg/kg	0.0022	ND
1,1-Dichloroethene	0.986	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.986	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.986	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.986	mg/kg	0.0022	ND
1,2-Dibromoethane	0.986	mg/kg	0.0022	ND
1,2-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,2-Dichloroethane	0.986	mg/kg	0.0011	ND
1,2-Dichloropropane	0.986	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,4-Dioxane	0.986	mg/kg	0.11	ND
2-Butanone	0.986	mg/kg	0.0022	ND
2-Hexanone	0.986	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.986	mg/kg	0.0022	ND
Acetone	0.986	mg/kg	0.011	ND
Benzene	0.986	mg/kg	0.0011	ND
Bromochloromethane	0.986	mg/kg	0.0022	ND
Bromodichloromethane	0.986	mg/kg	0.0022	ND
Bromoform	0.986	mg/kg	0.0022	ND
Bromomethane	0.986	mg/kg	0.0022	ND
Carbon disulfide	0.986	mg/kg	0.0022	ND
Carbon tetrachloride	0.986	mg/kg	0.0022	ND
Chlorobenzene	0.986	mg/kg	0.0022	ND
Chloroethane	0.986	mg/kg	0.0022	ND
Chloroform	0.986	mg/kg	0.0022	ND
Chloromethane	0.986	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.986	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.986	mg/kg	0.0022	ND
Cyclohexane	0.986	mg/kg	0.0022	ND
Dibromochloromethane	0.986	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.986	mg/kg	0.0022	ND
Ethylbenzene	0.986	mg/kg	0.0011	ND
Isopropylbenzene	0.986	mg/kg	0.0011	ND
m&p-Xylenes	0.986	mg/kg	0.0011	ND
Methyl Acetate	0.986	mg/kg	0.0022	ND
Methylcyclohexane	0.986	mg/kg	0.0022	ND
Methylene chloride	**0.986**	**mg/kg**	**0.0022**	**0.028**
Methyl-t-butyl ether	0.986	mg/kg	0.0011	ND

Sample ID: MW-05-2.0-4.0' **Collection Date: 9/26/2014**
Lab#: AC81143-007 **Receipt Date: 9/29/2014**
Matrix: Soil

o-Xylene	0.986	mg/kg	0.0011	ND
Styrene	0.986	mg/kg	0.0022	ND
Tetrachloroethene	0.986	mg/kg	0.0022	ND
Toluene	0.986	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.986	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.986	mg/kg	0.0022	ND
Trichloroethene	0.986	mg/kg	0.0022	ND
Trichlorofluoromethane	0.986	mg/kg	0.0022	ND
Vinyl chloride	0.986	mg/kg	0.0022	ND
Xylenes (Total)	0.986	mg/kg	0.0011	ND

Sample ID: SB-06-2.0-4.0' **Collection Date: 9/26/2014**
Lab#: AC81143-008 **Receipt Date: 9/29/2014**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**88**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.095**	**0.77**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0057	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.028	ND
delta-BHC	1	mg/kg	0.0057	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0057	ND
Endosulfan II	1	mg/kg	0.0057	ND
Endosulfan Sulfate	1	mg/kg	0.0057	ND
Endrin	1	mg/kg	0.0057	ND
Endrin Aldehyde	1	mg/kg	0.0057	ND
Endrin Ketone	1	mg/kg	0.0057	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0057	ND
Heptachlor Epoxide	1	mg/kg	0.0057	ND
Methoxychlor	1	mg/kg	0.0057	ND
p,p'-DDD	1	mg/kg	0.0028	ND
p,p'-DDE	**1**	**mg/kg**	**0.0028**	**0.0049**
p,p'-DDT	**1**	**mg/kg**	**0.0028**	**0.017**
Toxaphene	1	mg/kg	0.028	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result

Sample ID: SB-06-2.0-4.0' **Collection Date: 9/26/2014**
Lab#: AC81143-008 **Receipt Date: 9/29/2014**
Matrix: Soil

1,1'-Biphenyl	5	mg/kg	0.57	ND
1,2,4,5-Tetrachlorobenzene	5	mg/kg	0.57	ND
2,3,4,6-Tetrachlorophenol	5	mg/kg	0.57	ND
2,4,5-Trichlorophenol	5	mg/kg	0.57	ND
2,4,6-Trichlorophenol	5	mg/kg	0.57	ND
2,4-Dichlorophenol	5	mg/kg	0.14	ND
2,4-Dimethylphenol	5	mg/kg	0.14	ND
2,4-Dinitrophenol	5	mg/kg	2.8	ND
2,4-Dinitrotoluene	5	mg/kg	0.57	ND
2,6-Dinitrotoluene	5	mg/kg	0.57	ND
2-Chloronaphthalene	5	mg/kg	0.57	ND
2-Chlorophenol	5	mg/kg	0.57	ND
2-Methylnaphthalene	5	mg/kg	0.57	ND
2-Methylphenol	5	mg/kg	0.14	ND
2-Nitroaniline	5	mg/kg	0.57	ND
2-Nitrophenol	5	mg/kg	0.57	ND
3&4-Methylphenol	5	mg/kg	0.14	ND
3,3'-Dichlorobenzidine	5	mg/kg	0.57	ND
3-Nitroaniline	5	mg/kg	0.57	ND
4,6-Dinitro-2-methylphenol	5	mg/kg	2.8	ND
4-Bromophenyl-phenylether	5	mg/kg	0.57	ND
4-Chloro-3-methylphenol	5	mg/kg	0.57	ND
4-Chloroaniline	5	mg/kg	0.27	ND
4-Chlorophenyl-phenylether	5	mg/kg	0.57	ND
4-Nitroaniline	5	mg/kg	0.57	ND
4-Nitrophenol	5	mg/kg	0.57	ND
Acenaphthene	5	mg/kg	0.57	ND
Acenaphthylene	5	mg/kg	0.57	ND
Acetophenone	5	mg/kg	0.57	ND
Anthracene	5	mg/kg	0.57	ND
Atrazine	5	mg/kg	0.57	ND
Benzaldehyde	5	mg/kg	0.57	ND
Benzo[a]anthracene	**5**	**mg/kg**	**0.57**	**1.8**
Benzo[a]pyrene	**5**	**mg/kg**	**0.57**	**1.8**
Benzo[b]fluoranthene	**5**	**mg/kg**	**0.57**	**2.6**
Benzo[g,h,i]perylene	**5**	**mg/kg**	**0.57**	**1.0**
Benzo[k]fluoranthene	**5**	**mg/kg**	**0.57**	**0.77**
bis(2-Chloroethoxy)methane	5	mg/kg	0.57	ND
bis(2-Chloroethyl)ether	5	mg/kg	0.14	ND
bis(2-Chloroisopropyl)ether	5	mg/kg	0.57	ND
bis(2-Ethylhexyl)phthalate	5	mg/kg	0.57	ND
Butylbenzylphthalate	5	mg/kg	0.57	ND
Caprolactam	5	mg/kg	0.57	ND
Carbazole	5	mg/kg	0.57	ND
Chrysene	**5**	**mg/kg**	**0.57**	**2.1**
Dibenzo[a,h]anthracene	5	mg/kg	0.57	ND
Dibenzofuran	5	mg/kg	0.14	ND
Diethylphthalate	5	mg/kg	0.57	ND
Dimethylphthalate	5	mg/kg	0.57	ND
Di-n-butylphthalate	5	mg/kg	0.29	ND
Di-n-octylphthalate	5	mg/kg	0.57	ND
Fluoranthene	**5**	**mg/kg**	**0.57**	**2.4**
Fluorene	5	mg/kg	0.57	ND
Hexachlorobenzene	5	mg/kg	0.57	ND
Hexachlorobutadiene	5	mg/kg	0.57	ND
Hexachlorocyclopentadiene	5	mg/kg	0.57	ND
Hexachloroethane	5	mg/kg	0.57	ND
Indeno[1,2,3-cd]pyrene	**5**	**mg/kg**	**0.57**	**0.85**
Isophorone	5	mg/kg	0.57	ND
Naphthalene	5	mg/kg	0.14	ND
Nitrobenzene	5	mg/kg	0.57	ND

N-Nitroso-di-n-propylamine	5	mg/kg	0.14	ND
N-Nitrosodiphenylamine	5	mg/kg	0.57	ND
Pentachlorophenol	5	mg/kg	2.8	ND
Phenanthrene	**5**	**mg/kg**	**0.57**	**1.3**
Phenol	5	mg/kg	0.57	ND
Pyrene	**5**	**mg/kg**	**0.57**	**2.7**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**230**	**7100**
Arsenic	1	mg/kg	4.5	ND
Barium	**2**	**mg/kg**	**23**	**5500**
Calcium	**1**	**mg/kg**	**1100**	**13000**
Chromium	**1**	**mg/kg**	**5.7**	**920**
Cobalt	**1**	**mg/kg**	**2.8**	**19**
Copper	**1**	**mg/kg**	**5.7**	**120**
Iron	**1**	**mg/kg**	**230**	**19000**
Lead	**2**	**mg/kg**	**11**	**7000**
Magnesium	**1**	**mg/kg**	**570**	**6500**
Manganese	**1**	**mg/kg**	**11**	**220**
Nickel	**1**	**mg/kg**	**5.7**	**14**
Potassium	**1**	**mg/kg**	**570**	**2500**
Sodium	**1**	**mg/kg**	**280**	**300**
Thallium	2	mg/kg	3.4	ND
Vanadium	**1**	**mg/kg**	**11**	**27**
Zinc	**2**	**mg/kg**	**23**	**6100**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.91	ND
Beryllium	**1**	**mg/kg**	**0.23**	**0.33**
Cadmium	**1**	**mg/kg**	**0.45**	**3.8**
Selenium	1	mg/kg	2.3	ND
Silver	1	mg/kg	0.23	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.99	mg/kg	0.0023	ND
1,1,2,2-Tetrachloroethane	0.99	mg/kg	0.0023	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.99	mg/kg	0.0023	ND
1,1,2-Trichloroethane	0.99	mg/kg	0.0023	ND
1,1-Dichloroethane	0.99	mg/kg	0.0023	ND
1,1-Dichloroethene	0.99	mg/kg	0.0023	ND
1,2,3-Trichlorobenzene	0.99	mg/kg	0.0023	ND
1,2,4-Trichlorobenzene	0.99	mg/kg	0.0023	ND
1,2-Dibromo-3-chloropropane	0.99	mg/kg	0.0023	ND
1,2-Dibromoethane	0.99	mg/kg	0.0023	ND
1,2-Dichlorobenzene	0.99	mg/kg	0.0023	ND
1,2-Dichloroethane	0.99	mg/kg	0.0011	ND
1,2-Dichloropropane	0.99	mg/kg	0.0023	ND
1,3-Dichlorobenzene	0.99	mg/kg	0.0023	ND
1,4-Dichlorobenzene	0.99	mg/kg	0.0023	ND
1,4-Dioxane	0.99	mg/kg	0.11	ND
2-Butanone	0.99	mg/kg	0.0023	ND
2-Hexanone	0.99	mg/kg	0.0023	ND
4-Methyl-2-pentanone	0.99	mg/kg	0.0023	ND
Acetone	0.99	mg/kg	0.011	ND
Benzene	0.99	mg/kg	0.0011	ND
Bromochloromethane	0.99	mg/kg	0.0023	ND
Bromodichloromethane	0.99	mg/kg	0.0023	ND
Bromoform	0.99	mg/kg	0.0023	ND

Sample ID: SB-06-2.0-4.0' **Collection Date: 9/26/2014**
Lab#: AC81143-008 **Receipt Date: 9/29/2014**
Matrix: Soil

Bromomethane	0.99	mg/kg	0.0023	ND
Carbon disulfide	0.99	mg/kg	0.0023	ND
Carbon tetrachloride	0.99	mg/kg	0.0023	ND
Chlorobenzene	0.99	mg/kg	0.0023	ND
Chloroethane	0.99	mg/kg	0.0023	ND
Chloroform	0.99	mg/kg	0.0023	ND
Chloromethane	0.99	mg/kg	0.0023	ND
cis-1,2-Dichloroethene	0.99	mg/kg	0.0023	ND
cis-1,3-Dichloropropene	0.99	mg/kg	0.0023	ND
Cyclohexane	0.99	mg/kg	0.0023	ND
Dibromochloromethane	0.99	mg/kg	0.0023	ND
Dichlorodifluoromethane	0.99	mg/kg	0.0023	ND
Ethylbenzene	0.99	mg/kg	0.0011	ND
Isopropylbenzene	0.99	mg/kg	0.0011	ND
m&p-Xylenes	0.99	mg/kg	0.0011	ND
Methyl Acetate	0.99	mg/kg	0.0023	ND
Methylcyclohexane	0.99	mg/kg	0.0023	ND
Methylene chloride	**0.99**	**mg/kg**	**0.0023**	**0.032**
Methyl-t-butyl ether	0.99	mg/kg	0.0011	ND
o-Xylene	0.99	mg/kg	0.0011	ND
Styrene	0.99	mg/kg	0.0023	ND
Tetrachloroethene	0.99	mg/kg	0.0023	ND
Toluene	0.99	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.99	mg/kg	0.0023	ND
trans-1,3-Dichloropropene	0.99	mg/kg	0.0023	ND
Trichloroethene	0.99	mg/kg	0.0023	ND
Trichlorofluoromethane	0.99	mg/kg	0.0023	ND
Vinyl chloride	0.99	mg/kg	0.0023	ND
Xylenes (Total)	0.99	mg/kg	0.0011	ND

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175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
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Project # (Lab Use Only): 4092918

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
1 Business Day (100%)	Data Summary	Hazsite/CSV
2 Business Days (75%)	Results + QC (Waste)	EnviroData
3 Business Days (50%)	NJ Reduced	Excel - NJ Regulatory
4 Business Days (35%)	NY Reduced	Excel - NY Regulatory
1 Week (25%)	PA Reduced	Excel - PA Regulatory
10 Calendar Days (10%)	Full / Category B	EQuIS (specify below):
2 Weeks	Category A	4-File/EZ/NYS/Reg. 2 or 5
Other: as per contract		Other: PDF

Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: LiRO Engineers, Inc.
Address: 690 Delaware Ave Buffalo, NY
1b) Email/Cell/Fax/Ph: franks@liro.com
1c) Send Invoice to: same
1d) Send Report to: Steve Frank

Project Information

2a) Project: South Bronx Family Residence - Samaritan Village
2b) Project Mgr: Steve Frank
2c) Project Location (City/State): 110 E. 149 str. Bronx, NY
2d) Quote/PO # (If Applicable): —

FOR LAB USE ONLY ↓

Batch # AC81143

Check If Contingent ===>

Matrix Codes
DW - Drinking Water; S - Soil; A - Air; GW - Ground Water; SL - Sludge; WW - Waste Water; OL - Oil; OT - Other (please specify under item 9, Comments)

7) Analysis Request <=== Check If Contingent

8) # of Bottles

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	TCL/TAL *	None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
-001	SB-03-2.0-4.0'	S	9/26/14	1420	X		X	X								16 oz jars
-002	SB-02-0-2.0'	S		1040	X		X	X								
-003	SB-02-5.0-7.0'	S		1050	X		X	X								
-004	MW-04-0-2.0'	S		1230	X		X	X								
-005	MW-04-2.0-4.0'	S		1240	X		X	X								
-006	SB-05-2.0-4.0'	S		1130	X		X	X								
-007	MW-05-2.0-4.0'	S		0900	X		X	X								
-008	SB-06-2.0-4.0'	S		0945	X		X	X								

10) Relinquished by:	Accepted by:	Date	Time
V. Ortiz 9/29/14		9/29/14	1335
		9/29/14	1700

Comments, Notes, Special Requirements, HAZARDS

Note: Check if low-level groundwater methods required to meet current standards:
- ☐ BN or BNA (8270C SIM)
- ☐ VOC (8260B SIM or 8011)

Note: Check if applicable:
- ☐ Project-Specific Reporting Limits
- ☐ High Contaminant Concentrations
- ☐ NJ LSRP Project

Cooler Temperature: 2.8c

Additional Notes
* Includes: VOCs, SVOCs, PCBs, Pesticides & Metals

11) Sampler (print name): EVA JAKUBOWSKA Date: 9/26/2014

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Hampton-Clarke Report Of Analysis

Client: LIRO Engineers, Inc. **HC Project #:** 4092919

Project: South Bronx Family

Sample ID: MW-03-3'-4'- **Collection Date:** 9/29/2014

Lab#: AC81144-001 **Receipt Date:** 9/29/2014

Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**91**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.092**	**0.31**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0055	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0055	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0055	ND
Endosulfan II	1	mg/kg	0.0055	ND
Endosulfan Sulfate	1	mg/kg	0.0055	ND
Endrin	1	mg/kg	0.0055	ND
Endrin Aldehyde	1	mg/kg	0.0055	ND
Endrin Ketone	1	mg/kg	0.0055	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0055	ND
Heptachlor Epoxide	1	mg/kg	0.0055	ND
Methoxychlor	1	mg/kg	0.0055	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	3	mg/kg	0.22	ND
1,2,4,5-Tetrachlorobenzene	3	mg/kg	0.22	ND
2,3,4,6-Tetrachlorophenol	3	mg/kg	0.22	ND
2,4,5-Trichlorophenol	3	mg/kg	0.22	ND
2,4,6-Trichlorophenol	3	mg/kg	0.22	ND
2,4-Dichlorophenol	3	mg/kg	0.055	ND
2,4-Dimethylphenol	3	mg/kg	0.055	ND
2,4-Dinitrophenol	3	mg/kg	1.1	ND
2,4-Dinitrotoluene	3	mg/kg	0.22	ND

Sample ID: MW-03-3'-4'- **Collection Date: 9/29/2014**
Lab#: AC81144-001 **Receipt Date: 9/29/2014**
Matrix: Soil

2,6-Dinitrotoluene	3	mg/kg	0.22	ND
2-Chloronaphthalene	3	mg/kg	0.22	ND
2-Chlorophenol	3	mg/kg	0.22	ND
2-Methylnaphthalene	3	mg/kg	0.22	ND
2-Methylphenol	3	mg/kg	0.055	ND
2-Nitroaniline	3	mg/kg	0.22	ND
2-Nitrophenol	3	mg/kg	0.22	ND
3&4-Methylphenol	3	mg/kg	0.055	ND
3,3'-Dichlorobenzidine	3	mg/kg	0.22	ND
3-Nitroaniline	3	mg/kg	0.22	ND
4,6-Dinitro-2-methylphenol	3	mg/kg	1.1	ND
4-Bromophenyl-phenylether	3	mg/kg	0.22	ND
4-Chloro-3-methylphenol	3	mg/kg	0.22	ND
4-Chloroaniline	3	mg/kg	0.10	ND
4-Chlorophenyl-phenylether	3	mg/kg	0.22	ND
4-Nitroaniline	3	mg/kg	0.22	ND
4-Nitrophenol	3	mg/kg	0.22	ND
Acenaphthene	**3**	**mg/kg**	**0.22**	**0.29**
Acenaphthylene	3	mg/kg	0.22	ND
Acetophenone	3	mg/kg	0.22	ND
Anthracene	**3**	**mg/kg**	**0.22**	**0.74**
Atrazine	3	mg/kg	0.22	ND
Benzaldehyde	3	mg/kg	0.22	ND
Benzo[a]anthracene	**3**	**mg/kg**	**0.22**	**2.3**
Benzo[a]pyrene	**3**	**mg/kg**	**0.22**	**1.9**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.22**	**2.3**
Benzo[g,h,i]perylene	**3**	**mg/kg**	**0.22**	**1.2**
Benzo[k]fluoranthene	**3**	**mg/kg**	**0.22**	**0.62**
bis(2-Chloroethoxy)methane	3	mg/kg	0.22	ND
bis(2-Chloroethyl)ether	3	mg/kg	0.055	ND
bis(2-Chloroisopropyl)ether	3	mg/kg	0.22	ND
bis(2-Ethylhexyl)phthalate	3	mg/kg	0.22	ND
Butylbenzylphthalate	3	mg/kg	0.22	ND
Caprolactam	3	mg/kg	0.22	ND
Carbazole	3	mg/kg	0.22	ND
Chrysene	**3**	**mg/kg**	**0.22**	**1.9**
Dibenzo[a,h]anthracene	**3**	**mg/kg**	**0.22**	**0.29**
Dibenzofuran	**3**	**mg/kg**	**0.055**	**0.12**
Diethylphthalate	3	mg/kg	0.22	ND
Dimethylphthalate	3	mg/kg	0.22	ND
Di-n-butylphthalate	3	mg/kg	0.11	ND
Di-n-octylphthalate	3	mg/kg	0.22	ND
Fluoranthene	**3**	**mg/kg**	**0.22**	**4.1**
Fluorene	3	mg/kg	0.22	ND
Hexachlorobenzene	3	mg/kg	0.22	ND
Hexachlorobutadiene	3	mg/kg	0.22	ND
Hexachlorocyclopentadiene	3	mg/kg	0.22	ND
Hexachloroethane	3	mg/kg	0.22	ND
Indeno[1,2,3-cd]pyrene	**3**	**mg/kg**	**0.22**	**1.0**
Isophorone	3	mg/kg	0.22	ND
Naphthalene	**3**	**mg/kg**	**0.055**	**0.072**
Nitrobenzene	3	mg/kg	0.22	ND
N-Nitroso-di-n-propylamine	3	mg/kg	0.055	ND
N-Nitrosodiphenylamine	3	mg/kg	0.22	ND
Pentachlorophenol	3	mg/kg	1.1	ND
Phenanthrene	**3**	**mg/kg**	**0.22**	**3.4**
Phenol	3	mg/kg	0.22	ND
Pyrene	**3**	**mg/kg**	**0.22**	**5.3**

TAL Metals 6010

Analyte	DF	Units	RL	Result

Sample ID: MW-03-3'-4'- **Collection Date: 9/29/2014**
Lab#: AC81144-001 **Receipt Date: 9/29/2014**
Matrix: Soil

Aluminum	**1**	**mg/kg**	**220**	**6100**
Arsenic	1	mg/kg	4.4	ND
Barium	**1**	**mg/kg**	**11**	**100**
Calcium	**1**	**mg/kg**	**1100**	**11000**
Chromium	**1**	**mg/kg**	**5.5**	**13**
Cobalt	**1**	**mg/kg**	**2.7**	**5.6**
Copper	**1**	**mg/kg**	**5.5**	**24**
Iron	**1**	**mg/kg**	**220**	**12000**
Lead	**1**	**mg/kg**	**5.5**	**86**
Magnesium	**1**	**mg/kg**	**550**	**3800**
Manganese	**1**	**mg/kg**	**11**	**160**
Nickel	**1**	**mg/kg**	**5.5**	**15**
Potassium	**1**	**mg/kg**	**550**	**2100**
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**24**
Zinc	**1**	**mg/kg**	**11**	**37**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.88	ND
Beryllium	1	mg/kg	0.22	ND
Cadmium	1	mg/kg	0.44	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.986	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.986	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.986	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.986	mg/kg	0.0022	ND
1,1-Dichloroethane	0.986	mg/kg	0.0022	ND
1,1-Dichloroethene	0.986	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.986	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.986	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.986	mg/kg	0.0022	ND
1,2-Dibromoethane	0.986	mg/kg	0.0022	ND
1,2-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,2-Dichloroethane	0.986	mg/kg	0.0011	ND
1,2-Dichloropropane	0.986	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,4-Dioxane	0.986	mg/kg	0.11	ND
2-Butanone	0.986	mg/kg	0.0022	ND
2-Hexanone	0.986	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.986	mg/kg	0.0022	ND
Acetone	**0.986**	**mg/kg**	**0.011**	**0.033**
Benzene	0.986	mg/kg	0.0011	ND
Bromochloromethane	0.986	mg/kg	0.0022	ND
Bromodichloromethane	0.986	mg/kg	0.0022	ND
Bromoform	0.986	mg/kg	0.0022	ND
Bromomethane	0.986	mg/kg	0.0022	ND
Carbon disulfide	0.986	mg/kg	0.0022	ND
Carbon tetrachloride	0.986	mg/kg	0.0022	ND
Chlorobenzene	0.986	mg/kg	0.0022	ND
Chloroethane	0.986	mg/kg	0.0022	ND
Chloroform	0.986	mg/kg	0.0022	ND
Chloromethane	0.986	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.986	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.986	mg/kg	0.0022	ND

Sample ID: MW-03-3'-4'- **Collection Date: 9/29/2014**
Lab#: AC81144-001 **Receipt Date: 9/29/2014**
Matrix: Soil

Cyclohexane	0.986	mg/kg	0.0022	ND
Dibromochloromethane	0.986	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.986	mg/kg	0.0022	ND
Ethylbenzene	**0.986**	**mg/kg**	**0.0011**	**0.0039**
Isopropylbenzene	**0.986**	**mg/kg**	**0.0011**	**0.0014**
m&p-Xylenes	**0.986**	**mg/kg**	**0.0011**	**0.0069**
Methyl Acetate	0.986	mg/kg	0.0022	ND
Methylcyclohexane	0.986	mg/kg	0.0022	ND
Methylene chloride	**0.986**	**mg/kg**	**0.0022**	**0.031**
Methyl-t-butyl ether	0.986	mg/kg	0.0011	ND
o-Xylene	0.986	mg/kg	0.0011	ND
Styrene	0.986	mg/kg	0.0022	ND
Tetrachloroethene	0.986	mg/kg	0.0022	ND
Toluene	0.986	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.986	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.986	mg/kg	0.0022	ND
Trichloroethene	0.986	mg/kg	0.0022	ND
Trichlorofluoromethane	0.986	mg/kg	0.0022	ND
Vinyl chloride	0.986	mg/kg	0.0022	ND
Xylenes (Total)	**0.986**	**mg/kg**	**0.0011**	**0.0069**

Sample ID: MW-03-11'-11.5' **Collection Date: 9/29/2014**
Lab#: AC81144-002 **Receipt Date: 9/29/2014**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**74**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	**99.4**	**mg/kg**	**0.13**	**0.54**
1,3,5-Trimethylbenzene	**99.4**	**mg/kg**	**0.13**	**0.19**
4-Isopropyltoluene	99.4	mg/kg	0.13	ND
Benzene	**99.4**	**mg/kg**	**0.067**	**0.17**
Ethylbenzene	**99.4**	**mg/kg**	**0.13**	**0.33**
Isopropylbenzene	**99.4**	**mg/kg**	**0.13**	**2.3**
m&p-Xylenes	**99.4**	**mg/kg**	**0.13**	**0.81**
Naphthalene	**99.4**	**mg/kg**	**0.13**	**0.68**
n-Butylbenzene	**99.4**	**mg/kg**	**0.13**	**7.8**
n-Propylbenzene	**99.4**	**mg/kg**	**0.13**	**7.6**
o-Xylene	**99.4**	**mg/kg**	**0.13**	**0.26**
sec-Butylbenzene	**99.4**	**mg/kg**	**0.13**	**2.2**
t-Butylbenzene	**99.4**	**mg/kg**	**0.13**	**0.30**
Toluene	99.4	mg/kg	0.13	ND
Xylenes (Total)	**99.4**	**mg/kg**	**0.13**	**1.07**

HamptonClarke-Veritech Laboratories
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

HC·V HamptonClarke Veritech WBE/DBE/SBE 800.426.9992
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CHAIN OF CUSTODY RECORD

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Project # (Lab Use Only): 4092919

Page ____ of ____

Customer Information

1a) Customer: LIRO ENGINEERS INC.
Address: 690 DELAWARE AVE. BUFFALO NY 14209
1b) Email/Cell/Fax/Ph: FRANKS@LIRO.COM
1c) Send Invoice to: SAME
1d) Send Report to: STEVE FRANK

Project Information

2a) Project: SOUTH BRONX FAMILY RESIDENCE-SAMARITAN VILLAGE
2b) Project Mgr: STEVE FRANK
2c) Project Location (City/State): 110 EAST 149TH ST. BRONX NY.
2d) Quote/PO # (If Applicable): —

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
1 Business Day (100%)	Data Summary	Hazsite/CSV
2 Business Days (75%)	~~Results + QC~~ (Waste)	EnviroData
3 Business Days (50%)	NJ Reduced	Excel - NJ Regulatory
4 Business Days (35%)	NY Reduced	Excel - NY Regulatory
1 Week (25%)	PA Reduced	Excel - PA Regulatory
10 Calendar Days (10%)	Full / Category B	EQuIS (specify below):
2 Weeks	Category A	4-File/EZ/NYS/Reg. 2 or 5
Other: AS PER CONTRACT.		Other: PDF.

Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY

Batch # A081144

Check If Contingent ===>

Matrix Codes
DW - Drinking Water; S - Soil; A - Air; GW - Ground Water; SL - Sludge; WW - Waste Water; OL - Oil; OT - Other (please specify under item 9, Comments)

7) Analysis Request <=== Check If Contingent

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	TCL/TAL	CP-51 LIST VOCs	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other	9) Comments
-001	MW-03-3'-4'	S	9/29	10:00		✓	✓										(1) 16 OZ JAR
-002	MW-03-11'-11.5'	S	9/29	10:00		✓		✓									(1) 4 OZ JAR

10) Relinquished by:	Accepted by:	Date	Time
V. ORTIZ 9/29/14		9/29/14	1335
		9/29/14	1710

Comments, Notes, Special Requirements, HAZARDS

Note: Check if low-level groundwater methods required to meet current standards:
- [ ] BN or BNA (8270C SIM)
- [ ] VOC (8260B SIM or 8011)

Note: Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project

Cooler Temperature: 2.8c

Additional Notes

11) Sampler (print name): VLADIMIR ORTIZ. Date: 9-29-2014.

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Hampton-Clarke Report Of Analysis

Client: LIRO Engineers, Inc. **HC Project #:** 4093010

Project: South Bronx Family

Sample ID: MW-02-15'-16'- **Collection Date:** 9/30/2014

Lab#: AC81154-001 **Receipt Date:** 9/30/2014

Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**84**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.099**	**2.0**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0060	ND
Alpha-BHC	1	mg/kg	0.0012	ND
beta-BHC	1	mg/kg	0.0012	ND
Chlordane	1	mg/kg	0.030	ND
delta-BHC	1	mg/kg	0.0060	ND
Dieldrin	1	mg/kg	0.0012	ND
Endosulfan I	1	mg/kg	0.0060	ND
Endosulfan II	1	mg/kg	0.0060	ND
Endosulfan Sulfate	1	mg/kg	0.0060	ND
Endrin	1	mg/kg	0.0060	ND
Endrin Aldehyde	1	mg/kg	0.0060	ND
Endrin Ketone	1	mg/kg	0.0060	ND
gamma-BHC	1	mg/kg	0.0012	ND
Heptachlor	1	mg/kg	0.0060	ND
Heptachlor Epoxide	1	mg/kg	0.0060	ND
Methoxychlor	1	mg/kg	0.0060	ND
p,p'-DDD	1	mg/kg	0.0030	ND
p,p'-DDE	1	mg/kg	0.0030	ND
p,p'-DDT	1	mg/kg	0.0030	ND
Toxaphene	1	mg/kg	0.030	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	5	mg/kg	0.20	ND
1,2,4,5-Tetrachlorobenzene	5	mg/kg	0.20	ND
2,3,4,6-Tetrachlorophenol	5	mg/kg	0.20	ND
2,4,5-Trichlorophenol	5	mg/kg	0.20	ND
2,4,6-Trichlorophenol	5	mg/kg	0.20	ND
2,4-Dichlorophenol	5	mg/kg	0.050	ND
2,4-Dimethylphenol	5	mg/kg	0.050	ND
2,4-Dinitrophenol	5	mg/kg	0.99	ND
2,4-Dinitrotoluene	5	mg/kg	0.20	ND

2,6-Dinitrotoluene	5	mg/kg	0.20	ND
2-Chloronaphthalene	5	mg/kg	0.20	ND
2-Chlorophenol	5	mg/kg	0.20	ND
2-Methylnaphthalene	**5**	**mg/kg**	**0.20**	**5.0**
2-Methylphenol	5	mg/kg	0.050	ND
2-Nitroaniline	5	mg/kg	0.20	ND
2-Nitrophenol	5	mg/kg	0.20	ND
3&4-Methylphenol	5	mg/kg	0.050	ND
3,3'-Dichlorobenzidine	5	mg/kg	0.20	ND
3-Nitroaniline	5	mg/kg	0.20	ND
4,6-Dinitro-2-methylphenol	5	mg/kg	0.99	ND
4-Bromophenyl-phenylether	5	mg/kg	0.20	ND
4-Chloro-3-methylphenol	5	mg/kg	0.20	ND
4-Chloroaniline	5	mg/kg	0.094	ND
4-Chlorophenyl-phenylether	5	mg/kg	0.20	ND
4-Nitroaniline	5	mg/kg	0.20	ND
4-Nitrophenol	5	mg/kg	0.20	ND
Acenaphthene	5	mg/kg	0.20	ND
Acenaphthylene	5	mg/kg	0.20	ND
Acetophenone	5	mg/kg	0.20	ND
Anthracene	5	mg/kg	0.20	ND
Atrazine	5	mg/kg	0.20	ND
Benzaldehyde	5	mg/kg	0.20	ND
Benzo[a]anthracene	**5**	**mg/kg**	**0.20**	**0.28**
Benzo[a]pyrene	5	mg/kg	0.20	ND
Benzo[b]fluoranthene	**5**	**mg/kg**	**0.20**	**0.27**
Benzo[g,h,i]perylene	5	mg/kg	0.20	ND
Benzo[k]fluoranthene	5	mg/kg	0.20	ND
bis(2-Chloroethoxy)methane	5	mg/kg	0.20	ND
bis(2-Chloroethyl)ether	5	mg/kg	0.050	ND
bis(2-Chloroisopropyl)ether	5	mg/kg	0.20	ND
bis(2-Ethylhexyl)phthalate	5	mg/kg	0.20	ND
Butylbenzylphthalate	5	mg/kg	0.20	ND
Caprolactam	5	mg/kg	0.20	ND
Carbazole	5	mg/kg	0.20	ND
Chrysene	**5**	**mg/kg**	**0.20**	**0.21**
Dibenzo[a,h]anthracene	5	mg/kg	0.20	ND
Dibenzofuran	**5**	**mg/kg**	**0.050**	**0.062**
Diethylphthalate	5	mg/kg	0.20	ND
Dimethylphthalate	5	mg/kg	0.20	ND
Di-n-butylphthalate	5	mg/kg	0.10	ND
Di-n-octylphthalate	5	mg/kg	0.20	ND
Fluoranthene	**5**	**mg/kg**	**0.20**	**0.58**
Fluorene	5	mg/kg	0.20	ND
Hexachlorobenzene	5	mg/kg	0.20	ND
Hexachlorobutadiene	5	mg/kg	0.20	ND
Hexachlorocyclopentadiene	5	mg/kg	0.20	ND
Hexachloroethane	5	mg/kg	0.20	ND
Indeno[1,2,3-cd]pyrene	5	mg/kg	0.20	ND
Isophorone	5	mg/kg	0.20	ND
Naphthalene	**5**	**mg/kg**	**0.050**	**14**
Nitrobenzene	5	mg/kg	0.20	ND
N-Nitroso-di-n-propylamine	5	mg/kg	0.050	ND
N-Nitrosodiphenylamine	5	mg/kg	0.20	ND
Pentachlorophenol	5	mg/kg	0.99	ND
Phenanthrene	**5**	**mg/kg**	**0.20**	**0.63**
Phenol	5	mg/kg	0.20	ND
Pyrene	**5**	**mg/kg**	**0.20**	**0.61**

TAL Metals 6010

Analyte	DF	Units	RL	Result

Aluminum	**1**	**mg/kg**	**240**	**6500**
Arsenic	1	mg/kg	4.8	ND
Barium	**1**	**mg/kg**	**12**	**130**
Calcium	**1**	**mg/kg**	**1200**	**5400**
Chromium	**1**	**mg/kg**	**6.0**	**25**
Cobalt	**1**	**mg/kg**	**3.0**	**5.3**
Copper	**1**	**mg/kg**	**6.0**	**42**
Iron	**1**	**mg/kg**	**240**	**13000**
Lead	**1**	**mg/kg**	**6.0**	**290**
Magnesium	**1**	**mg/kg**	**600**	**3600**
Manganese	**1**	**mg/kg**	**12**	**230**
Nickel	**1**	**mg/kg**	**6.0**	**20**
Potassium	**1**	**mg/kg**	**600**	**970**
Sodium	1	mg/kg	300	ND
Vanadium	**1**	**mg/kg**	**12**	**17**
Zinc	**1**	**mg/kg**	**12**	**120**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.95	ND
Beryllium	**1**	**mg/kg**	**0.24**	**0.34**
Cadmium	1	mg/kg	0.48	ND
Selenium	1	mg/kg	2.4	ND
Silver	1	mg/kg	0.24	ND
Thallium	1	mg/kg	0.48	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	99.6	mg/kg	0.12	ND
1,1,2,2-Tetrachloroethane	99.6	mg/kg	0.12	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	99.6	mg/kg	0.12	ND
1,1,2-Trichloroethane	99.6	mg/kg	0.12	ND
1,1-Dichloroethane	99.6	mg/kg	0.12	ND
1,1-Dichloroethene	99.6	mg/kg	0.12	ND
1,2,3-Trichlorobenzene	99.6	mg/kg	0.12	ND
1,2,4-Trichlorobenzene	99.6	mg/kg	0.12	ND
1,2-Dibromo-3-chloropropane	99.6	mg/kg	0.12	ND
1,2-Dibromoethane	99.6	mg/kg	0.12	ND
1,2-Dichlorobenzene	99.6	mg/kg	0.12	ND
1,2-Dichloroethane	99.6	mg/kg	0.059	ND
1,2-Dichloropropane	99.6	mg/kg	0.12	ND
1,3-Dichlorobenzene	99.6	mg/kg	0.12	ND
1,4-Dichlorobenzene	99.6	mg/kg	0.12	ND
1,4-Dioxane	99.6	mg/kg	5.9	ND
2-Butanone	99.6	mg/kg	0.12	ND
2-Hexanone	99.6	mg/kg	0.12	ND
4-Methyl-2-pentanone	99.6	mg/kg	0.12	ND
Acetone	99.6	mg/kg	0.59	ND
Benzene	**99.6**	**mg/kg**	**0.059**	**0.40**
Bromochloromethane	99.6	mg/kg	0.12	ND
Bromodichloromethane	99.6	mg/kg	0.12	ND
Bromoform	99.6	mg/kg	0.12	ND
Bromomethane	99.6	mg/kg	0.12	ND
Carbon disulfide	99.6	mg/kg	0.12	ND
Carbon tetrachloride	99.6	mg/kg	0.12	ND
Chlorobenzene	99.6	mg/kg	0.12	ND
Chloroethane	99.6	mg/kg	0.12	ND
Chloroform	99.6	mg/kg	0.12	ND
Chloromethane	99.6	mg/kg	0.12	ND
cis-1,2-Dichloroethene	99.6	mg/kg	0.12	ND
cis-1,3-Dichloropropene	99.6	mg/kg	0.12	ND

Sample ID: MW-02-15'-16'- **Collection Date: 9/30/2014**
Lab#: AC81154-001 **Receipt Date: 9/30/2014**
Matrix: Soil

Cyclohexane	**99.6**	**mg/kg**	**0.12**	**4.4**
Dibromochloromethane	99.6	mg/kg	0.12	ND
Dichlorodifluoromethane	99.6	mg/kg	0.12	ND
Ethylbenzene	**99.6**	**mg/kg**	**0.12**	**27**
Isopropylbenzene	**99.6**	**mg/kg**	**0.12**	**7.7**
m&p-Xylenes	**99.6**	**mg/kg**	**0.12**	**43**
Methyl Acetate	99.6	mg/kg	0.12	ND
Methylcyclohexane	**99.6**	**mg/kg**	**0.12**	**45**
Methylene chloride	99.6	mg/kg	0.12	ND
Methyl-t-butyl ether	99.6	mg/kg	0.059	ND
o-Xylene	**99.6**	**mg/kg**	**0.12**	**3.0**
Styrene	99.6	mg/kg	0.12	ND
Tetrachloroethene	99.6	mg/kg	0.12	ND
Toluene	**99.6**	**mg/kg**	**0.12**	**0.62**
trans-1,2-Dichloroethene	99.6	mg/kg	0.12	ND
trans-1,3-Dichloropropene	99.6	mg/kg	0.12	ND
Trichloroethene	99.6	mg/kg	0.12	ND
Trichlorofluoromethane	99.6	mg/kg	0.12	ND
Vinyl chloride	99.6	mg/kg	0.12	ND
Xylenes (Total)	**99.6**	**mg/kg**	**0.12**	**46**

Sample ID: MW-02-18-18.5'- **Collection Date: 9/30/2014**
Lab#: AC81154-002 **Receipt Date: 9/30/2014**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**78**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	**100**	**mg/kg**	**0.13**	**0.84**
1,3,5-Trimethylbenzene	**100**	**mg/kg**	**0.13**	**0.18**
4-Isopropyltoluene	**100**	**mg/kg**	**0.13**	**1.5**
Benzene	**100**	**mg/kg**	**0.064**	**2.1**
Ethylbenzene	**100**	**mg/kg**	**0.13**	**1.3**
Isopropylbenzene	**100**	**mg/kg**	**0.13**	**1.3**
m&p-Xylenes	**100**	**mg/kg**	**0.13**	**3.5**
Naphthalene	**100**	**mg/kg**	**0.13**	**2.7**
n-Butylbenzene	**100**	**mg/kg**	**0.13**	**0.98**
n-Propylbenzene	**100**	**mg/kg**	**0.13**	**2.7**
o-Xylene	**100**	**mg/kg**	**0.13**	**0.33**
sec-Butylbenzene	**100**	**mg/kg**	**0.13**	**0.53**
t-Butylbenzene	100	mg/kg	0.13	ND
Toluene	**100**	**mg/kg**	**0.13**	**0.69**
Xylenes (Total)	**100**	**mg/kg**	**0.13**	**3.83**

Sample ID: DUPLICATE-SOIL **Collection Date: 9/30/2014**
Lab#: AC81154-003 **Receipt Date: 9/30/2014**
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**84**

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.099**	**2.2**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result

Aldrin	1	mg/kg	0.0060	ND
Alpha-BHC	1	mg/kg	0.0012	ND
beta-BHC	1	mg/kg	0.0012	ND
Chlordane	1	mg/kg	0.030	ND
delta-BHC	1	mg/kg	0.0060	ND
Dieldrin	1	mg/kg	0.0012	ND
Endosulfan I	1	mg/kg	0.0060	ND
Endosulfan II	1	mg/kg	0.0060	ND
Endosulfan Sulfate	1	mg/kg	0.0060	ND
Endrin	1	mg/kg	0.0060	ND
Endrin Aldehyde	1	mg/kg	0.0060	ND
Endrin Ketone	1	mg/kg	0.0060	ND
gamma-BHC	1	mg/kg	0.0012	ND
Heptachlor	1	mg/kg	0.0060	ND
Heptachlor Epoxide	1	mg/kg	0.0060	ND
Methoxychlor	1	mg/kg	0.0060	ND
p,p'-DDD	1	mg/kg	0.0030	ND
p,p'-DDE	1	mg/kg	0.0030	ND
p,p'-DDT	1	mg/kg	0.0030	ND
Toxaphene	1	mg/kg	0.030	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	10	mg/kg	0.40	ND
1,2,4,5-Tetrachlorobenzene	10	mg/kg	0.40	ND
2,3,4,6-Tetrachlorophenol	10	mg/kg	0.40	ND
2,4,5-Trichlorophenol	10	mg/kg	0.40	ND
2,4,6-Trichlorophenol	10	mg/kg	0.40	ND
2,4-Dichlorophenol	10	mg/kg	0.099	ND
2,4-Dimethylphenol	10	mg/kg	0.099	ND
2,4-Dinitrophenol	10	mg/kg	2.0	ND
2,4-Dinitrotoluene	10	mg/kg	0.40	ND
2,6-Dinitrotoluene	10	mg/kg	0.40	ND
2-Chloronaphthalene	10	mg/kg	0.40	ND
2-Chlorophenol	10	mg/kg	0.40	ND
2-Methylnaphthalene	**10**	**mg/kg**	**0.40**	**7.7**
2-Methylphenol	10	mg/kg	0.099	ND
2-Nitroaniline	10	mg/kg	0.40	ND
2-Nitrophenol	10	mg/kg	0.40	ND
3&4-Methylphenol	10	mg/kg	0.099	ND
3,3'-Dichlorobenzidine	10	mg/kg	0.40	ND
3-Nitroaniline	10	mg/kg	0.40	ND
4,6-Dinitro-2-methylphenol	10	mg/kg	2.0	ND
4-Bromophenyl-phenylether	10	mg/kg	0.40	ND
4-Chloro-3-methylphenol	10	mg/kg	0.40	ND
4-Chloroaniline	10	mg/kg	0.19	ND
4-Chlorophenyl-phenylether	10	mg/kg	0.40	ND
4-Nitroaniline	10	mg/kg	0.40	ND

Sample ID:	**DUPLICATE-SOIL**	**Collection Date:**	**9/30/2014**
Lab#:	**AC81154-003**	**Receipt Date:**	**9/30/2014**
Matrix:	**Soil**		

4-Nitrophenol	10	mg/kg	0.40	ND
Acenaphthene	10	mg/kg	0.40	ND
Acenaphthylene	10	mg/kg	0.40	ND
Acetophenone	10	mg/kg	0.40	ND
Anthracene	10	mg/kg	0.40	ND
Atrazine	10	mg/kg	0.40	ND
Benzaldehyde	10	mg/kg	0.40	ND
Benzo[a]anthracene	10	mg/kg	0.40	ND
Benzo[a]pyrene	10	mg/kg	0.40	ND
Benzo[b]fluoranthene	10	mg/kg	0.40	ND
Benzo[g,h,i]perylene	10	mg/kg	0.40	ND
Benzo[k]fluoranthene	10	mg/kg	0.40	ND
bis(2-Chloroethoxy)methane	10	mg/kg	0.40	ND
bis(2-Chloroethyl)ether	10	mg/kg	0.099	ND
bis(2-Chloroisopropyl)ether	10	mg/kg	0.40	ND
bis(2-Ethylhexyl)phthalate	10	mg/kg	0.40	ND
Butylbenzylphthalate	10	mg/kg	0.40	ND
Caprolactam	10	mg/kg	0.40	ND
Carbazole	10	mg/kg	0.40	ND
Chrysene	10	mg/kg	0.40	ND
Dibenzo[a,h]anthracene	10	mg/kg	0.40	ND
Dibenzofuran	10	mg/kg	0.099	ND
Diethylphthalate	10	mg/kg	0.40	ND
Dimethylphthalate	10	mg/kg	0.40	ND
Di-n-butylphthalate	10	mg/kg	0.20	ND
Di-n-octylphthalate	10	mg/kg	0.40	ND
Fluoranthene	**10**	**mg/kg**	**0.40**	**0.79**
Fluorene	10	mg/kg	0.40	ND
Hexachlorobenzene	10	mg/kg	0.40	ND
Hexachlorobutadiene	10	mg/kg	0.40	ND
Hexachlorocyclopentadiene	10	mg/kg	0.40	ND
Hexachloroethane	10	mg/kg	0.40	ND
Indeno[1,2,3-cd]pyrene	10	mg/kg	0.40	ND
Isophorone	10	mg/kg	0.40	ND
Naphthalene	**10**	**mg/kg**	**0.099**	**19**
Nitrobenzene	10	mg/kg	0.40	ND
N-Nitroso-di-n-propylamine	10	mg/kg	0.099	ND
N-Nitrosodiphenylamine	10	mg/kg	0.40	ND
Pentachlorophenol	10	mg/kg	2.0	ND
Phenanthrene	**10**	**mg/kg**	**0.40**	**0.92**
Phenol	10	mg/kg	0.40	ND
Pyrene	**10**	**mg/kg**	**0.40**	**0.92**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**240**	**7500**
Arsenic	1	mg/kg	4.8	ND
Barium	**1**	**mg/kg**	**12**	**180**
Calcium	**1**	**mg/kg**	**1200**	**9200**
Chromium	**1**	**mg/kg**	**6.0**	**25**
Cobalt	**1**	**mg/kg**	**3.0**	**6.3**
Copper	**1**	**mg/kg**	**6.0**	**56**
Iron	**1**	**mg/kg**	**240**	**14000**
Lead	**1**	**mg/kg**	**6.0**	**320**
Magnesium	**1**	**mg/kg**	**600**	**4100**
Manganese	**1**	**mg/kg**	**12**	**270**
Nickel	**1**	**mg/kg**	**6.0**	**25**
Potassium	**1**	**mg/kg**	**600**	**1300**
Sodium	1	mg/kg	300	ND
Vanadium	**1**	**mg/kg**	**12**	**21**
Zinc	**1**	**mg/kg**	**12**	**130**

Sample ID:	**DUPLICATE-SOIL**	**Collection Date:**	**9/30/2014**
Lab#:	**AC81154-003**	**Receipt Date:**	**9/30/2014**
Matrix:	**Soil**		

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.95	ND
Beryllium	**1**	**mg/kg**	**0.24**	**0.29**
Cadmium	1	mg/kg	0.48	ND
Selenium	1	mg/kg	2.4	ND
Silver	**1**	**mg/kg**	**0.24**	**29**
Thallium	1	mg/kg	0.48	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	99.6	mg/kg	0.12	ND
1,1,2,2-Tetrachloroethane	99.6	mg/kg	0.12	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	99.6	mg/kg	0.12	ND
1,1,2-Trichloroethane	99.6	mg/kg	0.12	ND
1,1-Dichloroethane	99.6	mg/kg	0.12	ND
1,1-Dichloroethene	99.6	mg/kg	0.12	ND
1,2,3-Trichlorobenzene	99.6	mg/kg	0.12	ND
1,2,4-Trichlorobenzene	99.6	mg/kg	0.12	ND
1,2-Dibromo-3-chloropropane	99.6	mg/kg	0.12	ND
1,2-Dibromoethane	99.6	mg/kg	0.12	ND
1,2-Dichlorobenzene	99.6	mg/kg	0.12	ND
1,2-Dichloroethane	99.6	mg/kg	0.059	ND
1,2-Dichloropropane	99.6	mg/kg	0.12	ND
1,3-Dichlorobenzene	99.6	mg/kg	0.12	ND
1,4-Dichlorobenzene	99.6	mg/kg	0.12	ND
1,4-Dioxane	99.6	mg/kg	5.9	ND
2-Butanone	99.6	mg/kg	0.12	ND
2-Hexanone	99.6	mg/kg	0.12	ND
4-Methyl-2-pentanone	99.6	mg/kg	0.12	ND
Acetone	99.6	mg/kg	0.59	ND
Benzene	**99.6**	**mg/kg**	**0.059**	**0.17**
Bromochloromethane	99.6	mg/kg	0.12	ND
Bromodichloromethane	99.6	mg/kg	0.12	ND
Bromoform	99.6	mg/kg	0.12	ND
Bromomethane	99.6	mg/kg	0.12	ND
Carbon disulfide	99.6	mg/kg	0.12	ND
Carbon tetrachloride	99.6	mg/kg	0.12	ND
Chlorobenzene	99.6	mg/kg	0.12	ND
Chloroethane	99.6	mg/kg	0.12	ND
Chloroform	99.6	mg/kg	0.12	ND
Chloromethane	99.6	mg/kg	0.12	ND
cis-1,2-Dichloroethene	99.6	mg/kg	0.12	ND
cis-1,3-Dichloropropene	99.6	mg/kg	0.12	ND
Cyclohexane	**99.6**	**mg/kg**	**0.12**	**3.6**
Dibromochloromethane	99.6	mg/kg	0.12	ND
Dichlorodifluoromethane	99.6	mg/kg	0.12	ND
Ethylbenzene	**99.6**	**mg/kg**	**0.12**	**36**
Isopropylbenzene	**99.6**	**mg/kg**	**0.12**	**9.5**
m&p-Xylenes	**99.6**	**mg/kg**	**0.12**	**53**
Methyl Acetate	99.6	mg/kg	0.12	ND
Methylcyclohexane	**99.6**	**mg/kg**	**0.12**	**44**
Methylene chloride	99.6	mg/kg	0.12	ND
Methyl-t-butyl ether	99.6	mg/kg	0.059	ND
o-Xylene	**99.6**	**mg/kg**	**0.12**	**3.3**
Styrene	99.6	mg/kg	0.12	ND
Tetrachloroethene	99.6	mg/kg	0.12	ND
Toluene	**99.6**	**mg/kg**	**0.12**	**0.54**
trans-1,2-Dichloroethene	99.6	mg/kg	0.12	ND
trans-1,3-Dichloropropene	99.6	mg/kg	0.12	ND

Sample ID:	**DUPLICATE-SOIL**	**Collection Date:**	**9/30/2014**
Lab#:	**AC81154-003**	**Receipt Date:**	**9/30/2014**
Matrix:	**Soil**		

Trichloroethene	99.6	mg/kg	0.12	ND
Trichlorofluoromethane	99.6	mg/kg	0.12	ND
Vinyl chloride	99.6	mg/kg	0.12	ND
Xylenes (Total)	**99.6**	**mg/kg**	**0.12**	**56.3**

HamptonClarke-Veritech Laboratories
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

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CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 4093010

Page _____ of _____

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Customer Information

1a) Customer: LIRO ENGINEERS INC.
Address: 690 DELAWARE AVENUE BUFFALO NY 14209
1b) Email/Cell/Fax/Ph: FRANKS@LIRO.COM.
1c) Send Invoice to: STEVE FRANK
1d) Send Report to: STEVE FRANK

Project Information

2a) Project: SOUTH BRONX FAMILY RESIDENCE-SAMARITAN VILL.
2b) Project Mgr: STEVE FRANK
2c) Project Location (City/State): 110 EAST 149TH ST BRONX NY.
2d) Quote/PO # (If Applicable): ——

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
1 Business Day (100%)	Data Summary	Hazsite/CSV
2 Business Days (75%)	Results + QC (Waste)	EnviroData
3 Business Days (50%)	NJ Reduced	Excel - NJ Regulatory
4 Business Days (35%)	NY Reduced	Excel - NY Regulatory
1 Week (25%)	PA Reduced	Excel - PA Regulatory
10 Calendar Days (10%)	Full / Category B	EQuIS (specify below):
2 Weeks	Category A	4-File/EZ/NYS/Reg. 2 or 5
Other: AS PER CONTRACT.		Other: PDF.

Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY

Batch # AC81154

Check If Contingent ===>

Matrix Codes
DW - Drinking Water, S - Soil, A - Air, GW - Ground Water, SL - Sludge, WW - Waste Water, OL - Oil, OT - Other (please specify under item 9, Comments)

7) Analysis Request

<=== Check If Contingent

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	TCL/TAL	CP-51 LIST VOC	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
-001	MW-02-15'-16'-	S	9/30	11:00		✓	✓										(1) 16 OZ JAR
-002	MW-02-18-18.5'	S	9/30	11:00		✓		✓									(1) 4 OZ JAR
-003	DUPLICATE-SOIL	S	—	—			✓										(1) 16 OZ JAR

3.

10) Relinquished by:	Accepted by:	Date	Time
V. ORTIZ 9/30	[signature]	9/30/14	1330
[signature]	[signature]	9/30/14	1410

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Note: Check if low-level groundwater methods required to meet current standards:
- [ ] BN or BNA (8270C SIM)
- [ ] VOC (8260B SIM or 8011)

Note: Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project

Cooler Temperature: 3.0

11) Sampler (print name): VLADIMIR ORTIZ Date: 9/30/14.

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Hampton-Clarke Report Of Analysis

Client: LIRO Engineers, Inc. **HC Project #:** 4101313

Project: South Bronx Family Resid.

Sample ID: 149-TWP-1-GRAB U **Collection Date:** 10/13/2014
Lab#: AC81399-001 **Receipt Date:** 10/13/2014
Matrix: Aqueous

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	ug/l	0.010	ND
Aldrin	1	ug/l	0.010	ND
Alpha-BHC	1	ug/l	0.010	ND
beta-BHC	1	ug/l	0.010	ND
delta-BHC	1	ug/l	0.010	ND
Dieldrin	1	ug/l	0.010	ND
Endosulfan I	1	ug/l	0.010	ND
Endosulfan II	1	ug/l	0.010	ND
Endosulfan Sulfate	1	ug/l	0.010	ND
Endrin	1	ug/l	0.010	ND
Endrin Aldehyde	1	ug/l	0.010	ND
Endrin Ketone	1	ug/l	0.010	ND
gamma-BHC	1	ug/l	0.010	ND
Heptachlor	1	ug/l	0.010	ND
Heptachlor Epoxide	1	ug/l	0.010	ND
Methoxychlor	1	ug/l	0.010	ND
p,p'-DDD	1	ug/l	0.010	ND
p,p'-DDE	1	ug/l	0.010	ND
p,p'-DDT	1	ug/l	0.010	ND
Toxaphene	1	ug/l	0.25	ND
y-Chlordane	1	ug/l	0.010	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.1	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.1	ND
2,4,5-Trichlorophenol	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	2.1	ND
2,4-Dimethylphenol	1	ug/l	0.52	ND
2,4-Dinitrophenol	1	ug/l	10	ND

Sample ID: 149-TWP-1-GRAB U **Collection Date: 10/13/2014**
Lab#: AC81399-001 **Receipt Date: 10/13/2014**
Matrix: Aqueous

2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Methylnaphthalene	1	ug/l	2.1	ND
2-Methylphenol	1	ug/l	0.52	ND
2-Nitroaniline	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3&4-Methylphenol	1	ug/l	0.52	ND
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND
3-Nitroaniline	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chloroaniline	1	ug/l	0.52	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitroaniline	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Acetophenone	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Atrazine	1	ug/l	2.1	ND
Benzaldehyde	1	ug/l	2.1	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.52	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Caprolactam	1	ug/l	2.1	ND
Carbazole	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Dibenzofuran	1	ug/l	0.52	ND
Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	0.52	ND
Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND
Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	10	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.52	ND
Nitrobenzene	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.52	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

Sample ID:	**149-TWP-1-GRAB U**	**Collection Date:**	**10/13/2014**
Lab#:	**AC81399-001**	**Receipt Date:**	**10/13/2014**
Matrix:	**Aqueous**		

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**ug/l**	**200**	**63000**
Barium	**1**	**ug/l**	**50**	**440**
Calcium	**1**	**ug/l**	**5000**	**250000**
Chromium	**1**	**ug/l**	**50**	**240**
Copper	**1**	**ug/l**	**50**	**270**
Iron	**1**	**ug/l**	**300**	**98000**
Magnesium	**1**	**ug/l**	**5000**	**51000**
Manganese	**1**	**ug/l**	**40**	**1600**
Nickel	**1**	**ug/l**	**50**	**110**
Potassium	**1**	**ug/l**	**5000**	**26000**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**280000**
Vanadium	**1**	**ug/l**	**50**	**170**
Zinc	**1**	**ug/l**	**50**	**330**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**19**
Beryllium	**1**	**ug/l**	**1.0**	**2.2**
Cadmium	1	ug/l	2.0	ND
Cobalt	**1**	**ug/l**	**2.0**	**32**
Lead	**1**	**ug/l**	**3.0**	**240**
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND

Sample ID: 149-TWP-1-GRAB U **Collection Date: 10/13/2014**
Lab#: AC81399-001 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: 149-TWP-1-GRAB F **Collection Date: 10/13/2014**
Lab#: AC81399-002 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	**1**	**ug/l**	**50**	**150**
Calcium	**1**	**ug/l**	**5000**	**310000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	**1**	**ug/l**	**300**	**1900**
Magnesium	**1**	**ug/l**	**5000**	**57000**
Manganese	**1**	**ug/l**	**40**	**2300**
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**33000**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**230000**
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**16**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID:	**149-TWP-2-GRAB U**	**Collection Date:**	**10/13/2014**
Lab#:	**AC81399-003**	**Receipt Date:**	**10/13/2014**
Matrix:	**Aqueous**		

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	ug/l	0.010	ND
Aldrin	1	ug/l	0.010	ND
Alpha-BHC	1	ug/l	0.010	ND
beta-BHC	1	ug/l	0.010	ND
delta-BHC	1	ug/l	0.010	ND
Dieldrin	1	ug/l	0.010	ND
Endosulfan I	1	ug/l	0.010	ND
Endosulfan II	1	ug/l	0.010	ND
Endosulfan Sulfate	1	ug/l	0.010	ND
Endrin	1	ug/l	0.010	ND
Endrin Aldehyde	1	ug/l	0.010	ND
Endrin Ketone	1	ug/l	0.010	ND
gamma-BHC	1	ug/l	0.010	ND
Heptachlor	1	ug/l	0.010	ND
Heptachlor Epoxide	1	ug/l	0.010	ND
Methoxychlor	1	ug/l	0.010	ND
p,p'-DDD	1	ug/l	0.010	ND
p,p'-DDE	1	ug/l	0.010	ND
p,p'-DDT	1	ug/l	0.010	ND
Toxaphene	1	ug/l	0.25	ND
y-Chlordane	1	ug/l	0.010	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.2	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.2	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.2	ND
2,4,5-Trichlorophenol	1	ug/l	2.2	ND
2,4,6-Trichlorophenol	1	ug/l	2.2	ND
2,4-Dichlorophenol	1	ug/l	2.2	ND
2,4-Dimethylphenol	**1**	**ug/l**	**0.54**	**2.8**
2,4-Dinitrophenol	1	ug/l	11	ND
2,4-Dinitrotoluene	1	ug/l	2.2	ND
2,6-Dinitrotoluene	1	ug/l	2.2	ND
2-Chloronaphthalene	1	ug/l	2.2	ND
2-Chlorophenol	1	ug/l	2.2	ND
2-Methylnaphthalene	1	ug/l	2.2	ND
2-Methylphenol	1	ug/l	0.54	ND

2-Nitroaniline	1	ug/l	2.2	ND
2-Nitrophenol	1	ug/l	2.2	ND
3&4-Methylphenol	1	ug/l	0.54	ND
3,3'-Dichlorobenzidine	1	ug/l	2.2	ND
3-Nitroaniline	1	ug/l	2.2	ND
4,6-Dinitro-2-methylphenol	1	ug/l	11	ND
4-Bromophenyl-phenylether	1	ug/l	2.2	ND
4-Chloro-3-methylphenol	1	ug/l	2.2	ND
4-Chloroaniline	1	ug/l	0.54	ND
4-Chlorophenyl-phenylether	1	ug/l	2.2	ND
4-Nitroaniline	1	ug/l	2.2	ND
4-Nitrophenol	1	ug/l	2.2	ND
Acenaphthene	1	ug/l	2.2	ND
Acenaphthylene	1	ug/l	2.2	ND
Acetophenone	1	ug/l	2.2	ND
Anthracene	1	ug/l	2.2	ND
Atrazine	1	ug/l	2.2	ND
Benzaldehyde	1	ug/l	2.2	ND
Benzo[a]anthracene	1	ug/l	2.2	ND
Benzo[a]pyrene	1	ug/l	2.2	ND
Benzo[b]fluoranthene	1	ug/l	2.2	ND
Benzo[g,h,i]perylene	1	ug/l	2.2	ND
Benzo[k]fluoranthene	1	ug/l	2.2	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.2	ND
bis(2-Chloroethyl)ether	1	ug/l	0.54	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.2	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.2	ND
Butylbenzylphthalate	1	ug/l	2.2	ND
Caprolactam	1	ug/l	2.2	ND
Carbazole	1	ug/l	2.2	ND
Chrysene	1	ug/l	2.2	ND
Dibenzo[a,h]anthracene	1	ug/l	2.2	ND
Dibenzofuran	1	ug/l	0.54	ND
Diethylphthalate	1	ug/l	2.2	ND
Dimethylphthalate	1	ug/l	2.2	ND
Di-n-butylphthalate	1	ug/l	0.54	ND
Di-n-octylphthalate	1	ug/l	2.2	ND
Fluoranthene	1	ug/l	2.2	ND
Fluorene	1	ug/l	2.2	ND
Hexachlorobenzene	1	ug/l	2.2	ND
Hexachlorobutadiene	1	ug/l	2.2	ND
Hexachlorocyclopentadiene	1	ug/l	11	ND
Hexachloroethane	1	ug/l	2.2	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.2	ND
Isophorone	1	ug/l	2.2	ND
Naphthalene	**1**	**ug/l**	**0.54**	**5.2**
Nitrobenzene	1	ug/l	2.2	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.54	ND
N-Nitrosodiphenylamine	1	ug/l	2.2	ND
Pentachlorophenol	1	ug/l	11	ND
Phenanthrene	1	ug/l	2.2	ND
Phenol	**1**	**ug/l**	**2.2**	**4.2**
Pyrene	1	ug/l	2.2	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**ug/l**	**200**	**220**
Barium	**1**	**ug/l**	**50**	**260**
Calcium	**1**	**ug/l**	**5000**	**300000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND

Iron	**1**	**ug/l**	**300**	**22000**
Magnesium	**1**	**ug/l**	**5000**	**55000**
Manganese	**1**	**ug/l**	**40**	**2200**
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**31000**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**220000**
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**40**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	**1**	**ug/l**	**3.0**	**6.5**
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	**1**	**ug/l**	**0.50**	**140**
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	**1**	**ug/l**	**1.0**	**95**
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND

Sample ID: 149-TWP-2-GRAB U **Collection Date: 10/13/2014**
Lab#: AC81399-003 **Receipt Date: 10/13/2014**
Matrix: Aqueous

m&p-Xylenes	**1**	**ug/l**	**1.0**	**73**
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	**1**	**ug/l**	**1.0**	**85**
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	**1**	**ug/l**	**1.0**	**6.6**
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	**1**	**ug/l**	**1.0**	**9.5**
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	**1**	**ug/l**	**1.0**	**79.6**

Sample ID: 149-TWP-2-GRAB F **Collection Date: 10/13/2014**
Lab#: AC81399-004 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	**1**	**ug/l**	**50**	**64**
Calcium	**1**	**ug/l**	**5000**	**230000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	ND
Magnesium	**1**	**ug/l**	**5000**	**36000**
Manganese	**1**	**ug/l**	**40**	**800**
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**21000**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**360000**
Vanadium	1	ug/l	50	ND
Zinc	**1**	**ug/l**	**50**	**83**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**2.2**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: 149-TWP-3-GRAB U **Collection Date: 10/13/2014**
Lab#: AC81399-005 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Sample ID:	**149-TWP-3-GRAB U**	**Collection Date:**	**10/13/2014**
Lab#:	**AC81399-005**	**Receipt Date:**	**10/13/2014**
Matrix:	**Aqueous**		

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	ug/l	0.010	ND
Aldrin	1	ug/l	0.010	ND
Alpha-BHC	1	ug/l	0.010	ND
beta-BHC	1	ug/l	0.010	ND
delta-BHC	1	ug/l	0.010	ND
Dieldrin	1	ug/l	0.010	ND
Endosulfan I	1	ug/l	0.010	ND
Endosulfan II	1	ug/l	0.010	ND
Endosulfan Sulfate	1	ug/l	0.010	ND
Endrin	1	ug/l	0.010	ND
Endrin Aldehyde	1	ug/l	0.010	ND
Endrin Ketone	1	ug/l	0.010	ND
gamma-BHC	1	ug/l	0.010	ND
Heptachlor	1	ug/l	0.010	ND
Heptachlor Epoxide	1	ug/l	0.010	ND
Methoxychlor	1	ug/l	0.010	ND
p,p'-DDD	1	ug/l	0.010	ND
p,p'-DDE	1	ug/l	0.010	ND
p,p'-DDT	1	ug/l	0.010	ND
Toxaphene	1	ug/l	0.25	ND
y-Chlordane	1	ug/l	0.010	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.1	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.1	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.1	ND
2,4,5-Trichlorophenol	1	ug/l	2.1	ND
2,4,6-Trichlorophenol	1	ug/l	2.1	ND
2,4-Dichlorophenol	1	ug/l	2.1	ND
2,4-Dimethylphenol	1	ug/l	0.52	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.1	ND
2,6-Dinitrotoluene	1	ug/l	2.1	ND
2-Chloronaphthalene	1	ug/l	2.1	ND
2-Chlorophenol	1	ug/l	2.1	ND
2-Methylnaphthalene	1	ug/l	2.1	ND
2-Methylphenol	1	ug/l	0.52	ND
2-Nitroaniline	1	ug/l	2.1	ND
2-Nitrophenol	1	ug/l	2.1	ND
3&4-Methylphenol	1	ug/l	0.52	ND
3,3'-Dichlorobenzidine	1	ug/l	2.1	ND

3-Nitroaniline	1	ug/l	2.1	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.1	ND
4-Chloro-3-methylphenol	1	ug/l	2.1	ND
4-Chloroaniline	1	ug/l	0.52	ND
4-Chlorophenyl-phenylether	1	ug/l	2.1	ND
4-Nitroaniline	1	ug/l	2.1	ND
4-Nitrophenol	1	ug/l	2.1	ND
Acenaphthene	1	ug/l	2.1	ND
Acenaphthylene	1	ug/l	2.1	ND
Acetophenone	1	ug/l	2.1	ND
Anthracene	1	ug/l	2.1	ND
Atrazine	1	ug/l	2.1	ND
Benzaldehyde	1	ug/l	2.1	ND
Benzo[a]anthracene	1	ug/l	2.1	ND
Benzo[a]pyrene	1	ug/l	2.1	ND
Benzo[b]fluoranthene	1	ug/l	2.1	ND
Benzo[g,h,i]perylene	1	ug/l	2.1	ND
Benzo[k]fluoranthene	1	ug/l	2.1	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.1	ND
bis(2-Chloroethyl)ether	1	ug/l	0.52	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.1	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.1	ND
Butylbenzylphthalate	1	ug/l	2.1	ND
Caprolactam	1	ug/l	2.1	ND
Carbazole	1	ug/l	2.1	ND
Chrysene	1	ug/l	2.1	ND
Dibenzo[a,h]anthracene	1	ug/l	2.1	ND
Dibenzofuran	1	ug/l	0.52	ND
Diethylphthalate	1	ug/l	2.1	ND
Dimethylphthalate	1	ug/l	2.1	ND
Di-n-butylphthalate	1	ug/l	0.52	ND
Di-n-octylphthalate	1	ug/l	2.1	ND
Fluoranthene	1	ug/l	2.1	ND
Fluorene	1	ug/l	2.1	ND
Hexachlorobenzene	1	ug/l	2.1	ND
Hexachlorobutadiene	1	ug/l	2.1	ND
Hexachlorocyclopentadiene	1	ug/l	10	ND
Hexachloroethane	1	ug/l	2.1	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.1	ND
Isophorone	1	ug/l	2.1	ND
Naphthalene	1	ug/l	0.52	ND
Nitrobenzene	1	ug/l	2.1	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.52	ND
N-Nitrosodiphenylamine	1	ug/l	2.1	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.1	ND
Phenol	1	ug/l	2.1	ND
Pyrene	1	ug/l	2.1	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**ug/l**	**200**	**1800**
Barium	**1**	**ug/l**	**50**	**370**
Calcium	**1**	**ug/l**	**5000**	**180000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	**1**	**ug/l**	**300**	**29000**
Magnesium	**1**	**ug/l**	**5000**	**69000**
Manganese	**1**	**ug/l**	**40**	**2000**
Nickel	1	ug/l	50	ND

Potassium	**1**	**ug/l**	**5000**	**30000**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**130000**
Vanadium	1	ug/l	50	ND
Zinc	**1**	**ug/l**	**50**	**63**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**7.4**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	**1**	**ug/l**	**2.0**	**2.4**
Lead	**1**	**ug/l**	**3.0**	**78**
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	5	ug/l	5.0	ND
1,1,2,2-Tetrachloroethane	5	ug/l	5.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ug/l	5.0	ND
1,1,2-Trichloroethane	5	ug/l	5.0	ND
1,1-Dichloroethane	5	ug/l	5.0	ND
1,1-Dichloroethene	5	ug/l	5.0	ND
1,2,3-Trichlorobenzene	5	ug/l	5.0	ND
1,2,4-Trichlorobenzene	5	ug/l	5.0	ND
1,2-Dibromo-3-chloropropane	5	ug/l	5.0	ND
1,2-Dibromoethane	5	ug/l	5.0	ND
1,2-Dichlorobenzene	5	ug/l	5.0	ND
1,2-Dichloroethane	5	ug/l	2.5	ND
1,2-Dichloropropane	5	ug/l	5.0	ND
1,3-Dichlorobenzene	5	ug/l	5.0	ND
1,4-Dichlorobenzene	5	ug/l	5.0	ND
1,4-Dioxane	5	ug/l	250	ND
2-Butanone	5	ug/l	5.0	ND
2-Hexanone	5	ug/l	5.0	ND
4-Methyl-2-pentanone	5	ug/l	5.0	ND
Acetone	5	ug/l	25	ND
Benzene	**5**	**ug/l**	**2.5**	**52**
Bromochloromethane	5	ug/l	5.0	ND
Bromodichloromethane	5	ug/l	5.0	ND
Bromoform	5	ug/l	5.0	ND
Bromomethane	5	ug/l	5.0	ND
Carbon disulfide	5	ug/l	5.0	ND
Carbon tetrachloride	5	ug/l	5.0	ND
Chlorobenzene	5	ug/l	5.0	ND
Chloroethane	5	ug/l	5.0	ND
Chloroform	5	ug/l	5.0	ND
Chloromethane	5	ug/l	5.0	ND
cis-1,2-Dichloroethene	5	ug/l	5.0	ND
cis-1,3-Dichloropropene	5	ug/l	5.0	ND
Cyclohexane	**5**	**ug/l**	**5.0**	**270**
Dibromochloromethane	5	ug/l	5.0	ND
Dichlorodifluoromethane	5	ug/l	5.0	ND
Ethylbenzene	**5**	**ug/l**	**5.0**	**5.3**
Isopropylbenzene	**5**	**ug/l**	**5.0**	**110**
m&p-Xylenes	**5**	**ug/l**	**5.0**	**23**
Methyl Acetate	5	ug/l	5.0	ND
Methylcyclohexane	**5**	**ug/l**	**5.0**	**540**
Methylene chloride	5	ug/l	5.0	ND

Sample ID: 149-TWP-3-GRAB U **Collection Date: 10/13/2014**
Lab#: AC81399-005 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Methyl-t-butyl ether	5	ug/l	2.5	ND
o-Xylene	**5**	**ug/l**	**5.0**	**6.1**
Styrene	5	ug/l	5.0	ND
Tetrachloroethene	5	ug/l	5.0	ND
Toluene	**5**	**ug/l**	**5.0**	**7.4**
trans-1,2-Dichloroethene	5	ug/l	5.0	ND
trans-1,3-Dichloropropene	5	ug/l	5.0	ND
Trichloroethene	5	ug/l	5.0	ND
Trichlorofluoromethane	5	ug/l	5.0	ND
Vinyl chloride	5	ug/l	5.0	ND
Xylenes (Total)	**5**	**ug/l**	**5.0**	**29.1**

Sample ID: 149-TWP-3-GRAB F **Collection Date: 10/13/2014**
Lab#: AC81399-006 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	**1**	**ug/l**	**50**	**200**
Calcium	**1**	**ug/l**	**5000**	**170000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	**1**	**ug/l**	**300**	**6600**
Magnesium	**1**	**ug/l**	**5000**	**64000**
Manganese	**1**	**ug/l**	**40**	**1800**
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**27000**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**120000**
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**3.1**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: 149-TWP-5-GRAB U **Collection Date: 10/13/2014**
Lab#: AC81399-007 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

Sample ID:	**149-TWP-5-GRAB U**	**Collection Date:**	**10/13/2014**
Lab#:	**AC81399-007**	**Receipt Date:**	**10/13/2014**
Matrix:	**Aqueous**		

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	ug/l	0.010	ND
Aldrin	1	ug/l	0.010	ND
Alpha-BHC	1	ug/l	0.010	ND
beta-BHC	1	ug/l	0.010	ND
delta-BHC	1	ug/l	0.010	ND
Dieldrin	1	ug/l	0.010	ND
Endosulfan I	1	ug/l	0.010	ND
Endosulfan II	1	ug/l	0.010	ND
Endosulfan Sulfate	1	ug/l	0.010	ND
Endrin	1	ug/l	0.010	ND
Endrin Aldehyde	1	ug/l	0.010	ND
Endrin Ketone	1	ug/l	0.010	ND
gamma-BHC	1	ug/l	0.010	ND
Heptachlor	1	ug/l	0.010	ND
Heptachlor Epoxide	1	ug/l	0.010	ND
Methoxychlor	1	ug/l	0.010	ND
p,p'-DDD	1	ug/l	0.010	ND
p,p'-DDE	1	ug/l	0.010	ND
p,p'-DDT	1	ug/l	0.010	ND
Toxaphene	1	ug/l	0.25	ND
y-Chlordane	1	ug/l	0.010	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.55	ND
Aroclor-1016	1	ug/l	0.55	ND
Aroclor-1221	1	ug/l	0.55	ND
Aroclor-1232	1	ug/l	0.55	ND
Aroclor-1242	1	ug/l	0.55	ND
Aroclor-1248	1	ug/l	0.55	ND
Aroclor-1254	1	ug/l	0.55	ND
Aroclor-1260	1	ug/l	0.55	ND
Aroclor-1262	1	ug/l	0.55	ND
Aroclor-1268	1	ug/l	0.55	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	2.0	ND
2,4-Dimethylphenol	1	ug/l	0.51	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.51	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.51	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND

4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.51	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.51	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.51	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.51	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	10	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.51	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.51	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	**1**	**ug/l**	**50**	**81**
Calcium	**1**	**ug/l**	**5000**	**150000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	**1**	**ug/l**	**300**	**680**
Magnesium	**1**	**ug/l**	**5000**	**52000**
Manganese	**1**	**ug/l**	**40**	**1200**
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**6400**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**240000**

Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**2.4**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	**1**	**ug/l**	**3.0**	**10**
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND

Sample ID: 149-TWP-5-GRAB U **Collection Date: 10/13/2014**
Lab#: AC81399-007 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: 149-TWP-5-GRAB F **Collection Date: 10/13/2014**
Lab#: AC81399-008 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	**1**	**ug/l**	**50**	**70**
Calcium	**1**	**ug/l**	**5000**	**140000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	1	ug/l	300	ND
Magnesium	**1**	**ug/l**	**5000**	**49000**
Manganese	**1**	**ug/l**	**40**	**1100**
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**5800**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**230000**
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: 149-TWP-4-GRAB U **Collection Date: 10/13/2014**
Lab#: AC81399-009 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Cyanide (Water) 9012

Analyte	DF	Units	RL	Result
Cyanide	1	mg/l	0.020	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	ug/l	0.010	ND
Aldrin	1	ug/l	0.010	ND

Alpha-BHC	1	ug/l	0.010	ND
beta-BHC	1	ug/l	0.010	ND
delta-BHC	1	ug/l	0.010	ND
Dieldrin	1	ug/l	0.010	ND
Endosulfan I	1	ug/l	0.010	ND
Endosulfan II	1	ug/l	0.010	ND
Endosulfan Sulfate	1	ug/l	0.010	ND
Endrin	1	ug/l	0.010	ND
Endrin Aldehyde	1	ug/l	0.010	ND
Endrin Ketone	1	ug/l	0.010	ND
gamma-BHC	1	ug/l	0.010	ND
Heptachlor	1	ug/l	0.010	ND
Heptachlor Epoxide	1	ug/l	0.010	ND
Methoxychlor	1	ug/l	0.010	ND
p,p'-DDD	1	ug/l	0.010	ND
p,p'-DDE	1	ug/l	0.010	ND
p,p'-DDT	1	ug/l	0.010	ND
Toxaphene	1	ug/l	0.25	ND
y-Chlordane	1	ug/l	0.010	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	2.0	ND
2,4-Dimethylphenol	1	ug/l	0.50	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND

Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.50	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	10	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**ug/l**	**200**	**500**
Barium	**1**	**ug/l**	**50**	**310**
Calcium	**1**	**ug/l**	**5000**	**130000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	**1**	**ug/l**	**300**	**4800**
Magnesium	**1**	**ug/l**	**5000**	**19000**
Manganese	**1**	**ug/l**	**40**	**460**
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**13000**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**260000**
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result

Antimony	1	ug/l	3.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**7.7**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	**1**	**ug/l**	**3.0**	**20**
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	**1**	**ug/l**	**0.50**	**1.5**
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND

Sample ID: 149-TWP-4-GRAB U **Collection Date: 10/13/2014**
Lab#: AC81399-009 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: 149-TWP-4-GRAB F **Collection Date: 10/13/2014**
Lab#: AC81399-010 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.70	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Barium	**1**	**ug/l**	**50**	**290**
Calcium	**1**	**ug/l**	**5000**	**130000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	**1**	**ug/l**	**300**	**1600**
Magnesium	**1**	**ug/l**	**5000**	**20000**
Manganese	**1**	**ug/l**	**40**	**470**
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**14000**
Silver	1	ug/l	20	ND
Sodium	**1**	**ug/l**	**5000**	**270000**
Vanadium	1	ug/l	50	ND
Zinc	1	ug/l	50	ND

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**4.4**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Sample ID: TB 10/2 **Collection Date: 10/13/2014**
Lab#: AC81399-011 **Receipt Date: 10/13/2014**
Matrix: Aqueous

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND

Sample ID: TB 10/2 **Collection Date: 10/13/2014**
Lab#: AC81399-011 **Receipt Date: 10/13/2014**
Matrix: Aqueous

1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

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Project # (Lab Use Only): 4101313

Page 1 of ____

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
1 Business Day (100%)	Data Summary	Hazsite/CSV
2 Business Days (75%)	Results + QC (Waste)	EnviroData
3 Business Days (50%)	NJ Reduced	Excel - NJ Regulatory
4 Business Days (35%)	NY Reduced	Excel - NY Regulatory
1 Week (25%)	PA Reduced	Excel - PA Regulatory
10 Calendar Days (10%)	Full / Category B	EQuIS (specify below):
2 Weeks	Category A	4-File/EZ/NYS/Reg. 2 or 5
Other: AS PER CONTRACT *		Other: ____

Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: LiRo ENGINEERS, INC
Address: 703 LORIMER ST
BROOKLYN NY 11211
1b) Email/Cell/Fax/Ph: franks@liro.com
1c) Send Invoice to: STEVE FRANK
1d) Send Report to: STEVE FRANK

Project Information

2a) Project: SOUTH BX FAMILY RESIDENCE SITE
OER PROJECT # 14EH-A604X
2b) Project Mgr: STEVE FRANK
2c) Project Location (City/State): 110 E 149th STREET
BRONX, NEW YORK
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY ↓

Batch # AC81399

Check If Contingent ===>

Matrix Codes
DW - Drinking Water; S - Soil; A - Air; GW - Ground Water; SL - Sludge; WW - Waste Water; OL - Oil; OT - Other (please specify under item 9, Comments)

7) Analysis Request <=== Check If Contingent

8) # of Bottles

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	TCL PM (INCLUDING DISSOLVED METALS)	None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001/002	149-TWP-1-GRAB	GW	10-13-14	9:15		✓	✓					✓	✓	✓		
003/004	149-TWP-2-GRAB	↓	↓	10:48		✓	✓					✓	✓	✓	✓	
005/006	149-TW-3-GRAB			13:21		✓	✓					✓	✓	✓		
007/008	149-TWP 5-GRAB			12:23		✓	✓					✓	✓	✓		
009/010	149-TWP-4-GRAB	↓	↓	14:10		✓	✓					✓	✓	✓		

10) Relinquished by:	Accepted by:	Date	Time
V. ORTIZ 10/13/14		10/13/14	4:30
		10/13/14	6:20

Comments, Notes, Special Requirements, HAZARDS

Note: Check if low-level groundwater methods required to meet current standards:
- ☐ BN or BNA (8270C SIM)
- ☐ VOC (8260B SIM or 8011)

Note: Check if applicable:
- ☐ Project-Specific Reporting Limits
- ☐ High Contaminant Concentrations
- ☐ NJ LSRP Project

Cooler Temperature: 2.7 2.0 2.4

Additional Notes: IF YOU HAVE ANY QUESTION PLEASE CONTACT STEVE FRANK @ (716) 882 9644 - 336

11) Sampler (print name): FIDELIS IDUKO Date: 10-13-2014

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: South Bronx Family

Client PO: Not Available

Report To: LIRO Engineers, Inc.
703 Lorimer Street
Brooklyn, NY 11211

Attn: Steve Frank

Received Date: 9/29/2014

Report Date: 10/23/2014

Deliverables: NYDOH-S

Lab ID: AC81144

Lab Project No: 4092919

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Robin Cousineau - Quality Assurance Director OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Sample Summary

Client: LIRO Engineers, Inc.
Project: South Bronx Family

HC Project #: 4092919

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AC81144-001	MW-03-3'-4'-	Soil	9/29/2014	9/29/2014
AC81144-002	MW-03-11'-11.5'	Soil	9/29/2014	9/29/2014

Laboratory Chronicle

Client: LIRO Engineers, Inc.
Project: South Bronx Family

HC Project #: 4092919

Lab#: AC81144-001 **Sample ID: MW-03-3'-4'-**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/1/14 00:00	hossain
Mercury (Soil/Waste) 7471A	EPA 7471B	10/02/14	snezana	EPA 7471B	10/2/14 13:14	CJA
Organochlorine Pesticides 8081	3510C/3550C	10/01/14	michi	EPA 8081B	10/2/14 06:16	MLC/KD/ZM
PCB 8082	3510C/3550C	10/01/14	michi	EPA 8082A	10/2/14 04:00	KD/MLC
Semivolatile Organics (no search) 8270	3510C/3550C	10/03/14	jessica	EPA 8270D	10/3/14 19:40	AH/JB
TAL Metals 6010	3005&10/3050	10/02/14	snezana	EPA 6010C	10/2/14 18:04	OA
TAL Metals 6010	3005&10/3050	10/02/14	snezana	EPA 6010C	10/2/14 17:27	OA
TAL Metals 6020	3005&10/3050	10/02/14	snezana	EPA 6020A	10/2/14 15:38	GK
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	10/2/14 18:49	SG

Lab#: AC81144-002 **Sample ID: MW-03-11'-11.5'**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/1/14 00:00	hossain
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260C	10/7/14 11:58	SG

HC Case Narrative

Client: LIRO Engineers, Inc.
Project: South Bronx Family

HC Project: 4092919

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Methylene chloride was recovered in sample AC81144-001 suggesting laboratory contamination.

Sample AC81144-002 was analyzed as a methanol extract due to high concentration of target analytes.

The Method Blank Spike for batches 38067, 38075, 38095, 38103 and 38112 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS, MSD and/or MS/MSD RPD for batch 38067 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

Sample AC81144-001 was analyzed at a dilution due to high concentration of target analytes.

The Matrix Spike and/or Matrix Spike Duplicate for batch 35290 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Sample SMB35290(MS) has a surrogate recovery outside QC limits, but the recovery is greater than 10%, therefore, no corrective action was necessary. Please refer to the applicable Form 2 for the recoveries.

There is no surrogate recovery data for samples AC81067-006, AC81067-006(MS) and AC81067-006(MSD) due to high sample dilution. Please refer to the applicable Form 2 for the recoveries.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

Data conforms to method requirements.

Metals Analysis:

The Matrix Spike, Matrix Spike Duplicate and/or Post Spike for batch 37412 and 37413 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batch 37413. Please refer to the applicable Form 6/9 for the recoveries.

The MS/MSD RPD had recoveries outside QC limits in batch 37412 and 37413. Please refer to the applicable Form 6/9 for the recoveries.

The serial dilution for batches 37412 and 37413 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

Robin Cousineau Quality Assurance Director	Or	Jean Revolus Laboratory Director	10/29/2014 Date

FORM2

Surrogate Recovery

Method: EPA 8270D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
7M67420.D	SMB35290	Soil	10/03/14 16:34	1		97	101	95	96	108	120
7M67428.D	AC81144-001(	Soil	10/03/14 19:40	6		90	97	88	89	91	115
9M59821.D	SMB35290(M	Soil	10/06/14 14:58	1		90	100	110	113	129	136*
9M59822.D	AC81067-006(	Soil	10/06/14 15:22	1000	SD	0*	0*	0*	0*	0*	0*
9M59823.D	AC81067-007(	Soil	10/06/14 15:45	1000	SD	0*	0*	0*	0*	0*	0*
9M59826.D	AC81067-008(	Soil	10/06/14 16:53	1000	SD	0*	0*	0*	0*	0*	0*

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270D

Soil Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	30-130
S2=Phenol-d5	100	30-130
S3=Nitrobenzene-d5	50	30-130
S4=2-Fluorobiphenyl	50	30-130
S5=2,4,6-Tribromophenol	100	30-130
S6=Terphenyl-d14	50	30-130

Form3
Recovery Data
QC Batch: SMB35290

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M59821.D	SMB35290(MS)	10/6/2014 2:58:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	73.6554	0	100	74	20	160
2-Chlorophenol	1	81.0831	0	100	81	70	130
1,4-Dichlorobenzene	1	37.038	0	50	74	70	130
2-Methylphenol	1	79.3886	0	100	79	70	130
N-Nitroso-di-n-propylamine	1	34.0112	0	50	68*	70	130
2,4-Dimethylphenol	1	78.793	0	100	79	70	130
1,2,4-Trichlorobenzene	1	42.0707	0	50	84	70	130
Naphthalene	1	39.2743	0	50	79	70	130
4-Chloro-3-methylphenol	1	86.814	0	100	87	70	130
Acenaphthene	1	38.9445	0	50	78	70	130
2,4-Dinitrotoluene	1	39.7448	0	50	79	70	130
4-Nitrophenol	1	82.0435	0	100	82	20	160
Fluorene	1	40.6957	0	50	81	70	130
Pentachlorophenol	1	86.5893	0	100	87	20	160
Pyrene	1	42.6594	0	50	85	70	130
Butylbenzylphthalate	1	42.6595	0	50	85	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: SMB35290

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M59823.D	AC81067-007(100X)(MS:AC810	10/6/2014 3:45:00 PM
Non Spike(If applicable):	9M59822.D	AC81067-006(100X)	10/6/2014 3:22:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	0	0	100	0*	20	160
2-Chlorophenol	1	0	0	100	0*	70	130
1,4-Dichlorobenzene	1	0	0	50	0*	70	130
2-Methylphenol	1	0	0	100	0*	70	130
N-Nitroso-di-n-propylamine	1	0	0	50	0*	70	130
2,4-Dimethylphenol	1	0	0	100	0*	70	130
1,2,4-Trichlorobenzene	1	0	0	50	0*	70	130
Naphthalene	1	83331.4	100766.7	50	-35000*	70	130
4-Chloro-3-methylphenol	1	0	0	100	0*	70	130
Acenaphthene	1	18019.9	26272.7	50	-17000*	70	130
2,4-Dinitrotoluene	1	0	0	50	0*	70	130
4-Nitrophenol	1	0	0	100	0*	20	160
Fluorene	1	14581.4	18481.8	50	-7800*	70	130
Pentachlorophenol	1	0	0	100	0*	20	160
Pyrene	1	16175.7	19435.9	50	-6500*	70	130
Butylbenzylphthalate	1	0	0	50	0*	70	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M59826.D	AC81067-008(100X)(MSD:AC8	10/6/2014 4:53:00 PM
Non Spike(If applicable):	9M59822.D	AC81067-006(100X)	10/6/2014 3:22:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Phenol	1	0	0	100	0*	20	160
2-Chlorophenol	1	0	0	100	0*	70	130
1,4-Dichlorobenzene	1	0	0	50	0*	70	130
2-Methylphenol	1	0	0	100	0*	70	130
N-Nitroso-di-n-propylamine	1	0	0	50	0*	70	130
2,4-Dimethylphenol	1	0	0	100	0*	70	130
1,2,4-Trichlorobenzene	1	0	0	50	0*	70	130
Naphthalene	1	90750.7	100766.7	50	-20000*	70	130
4-Chloro-3-methylphenol	1	0	0	100	0*	70	130
Acenaphthene	1	20735.9	26272.7	50	-11000*	70	130
2,4-Dinitrotoluene	1	0	0	50	0*	70	130
4-Nitrophenol	1	2750.5	0	100	2750*	20	160
Fluorene	1	16180.5	18481.8	50	-4600*	70	130
Pentachlorophenol	1	0	0	100	0*	20	160
Pyrene	1	17403.8	19435.9	50	-4100*	70	130
Butylbenzylphthalate	1	0	0	50	0*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: SMB35290

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M59826.D	AC81067-008(100X)(MSD:AC8	10/6/2014 4:53:00 PM
Duplicate(If applicable):	9M59823.D	AC81067-007(100X)(MS:AC810	10/6/2014 3:45:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Phenol	1	0	0	NA	30
2-Chlorophenol	1	0	0	NA	30
1,4-Dichlorobenzene	1	0	0	NA	30
2-Methylphenol	1	0	0	NA	30
N-Nitroso-di-n-propylamine	1	0	0	NA	30
2,4-Dimethylphenol	1	0	0	NA	30
1,2,4-Trichlorobenzene	1	0	0	NA	30
Naphthalene	1	90750.7	83331.4	8.5	30
4-Chloro-3-methylphenol	1	0	0	NA	30
Acenaphthene	1	20735.9	18019.9	14	30
2,4-Dinitrotoluene	1	0	0	NA	30
4-Nitrophenol	1	2750.5	0	200*	30
Fluorene	1	16180.5	14581.4	10	30
Pentachlorophenol	1	0	0	NA	30
Pyrene	1	17403.8	16175.7	7.3	30
Butylbenzylphthalate	1	0	0	NA	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data
QC Batch: MBS38067

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M16172.D	MBS38067	9/30/2014 10:43:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	30.625	0	50	61 *	70	130
1,1-Dichloroethene	1	43.8164	0	50	88	70	130
1,1-Dichloroethane	1	43.8046	0	50	88	70	130
Chloroform	1	49.4245	0	50	99	70	130
1,2-Dichloroethane	1	50.4533	0	50	101	70	130
2-Butanone	1	54.7043	0	50	109	70	130
Carbon Tetrachloride	1	62.7387	0	50	125	70	130
Trichloroethene	1	62.3537	0	50	125	70	130
Benzene	1	40.4047	0	50	81	70	130
Tetrachloroethene	1	57.6515	0	50	115	70	130
Toluene	1	40.9633	0	50	82	70	130
Chlorobenzene	1	44.6544	0	50	89	70	130
1,4-Dichlorobenzene	1	40.0562	0	50	80	70	130
1,2-Dichlorobenzene	1	42.1458	0	50	84	70	130
n-Propylbenzene	1	37.1156	0	50	74	70	130
sec-Butylbenzene	1	34.7522	0	50	70	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS38067

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M16164.D	AC81021-003(MS)	9/30/2014 8:30:00 AM
Non Spike(If applicable):	6M16187.D	AC81021-003	9/30/2014 2:52:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	26.6604	0	50	53*	70	130
1,1-Dichloroethene	1	39.9385	0	50	80	70	130
1,1-Dichloroethane	1	38.5652	0	50	77	70	130
Chloroform	1	43.9389	0	50	88	70	130
1,2-Dichloroethane	1	43.997	0	50	88	70	130
2-Butanone	1	43.6303	0	50	87	70	130
Carbon Tetrachloride	1	53.0323	0	50	106	70	130
Trichloroethene	1	50.7742	0	50	102	70	130
Benzene	1	36.2652	0	50	73	70	130
Tetrachloroethene	1	51.2294	0	50	102	70	130
Toluene	1	37.3978	0	50	75	70	130
Chlorobenzene	1	40.8982	0	50	82	70	130
1,4-Dichlorobenzene	1	37.1476	0	50	74	70	130
1,2-Dichlorobenzene	1	37.8971	0	50	76	70	130
n-Propylbenzene	1	35.6551	0	50	71	70	130
sec-Butylbenzene	1	33.2767	0	50	67*	70	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M16170.D	AC81021-003(MSD)	9/30/2014 10:10:00 AM
Non Spike(If applicable):	6M16187.D	AC81021-003	9/30/2014 2:52:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	32.9971	0	50	66*	70	130
1,1-Dichloroethene	1	54.6401	0	50	109	70	130
1,1-Dichloroethane	1	47.213	0	50	94	70	130
Chloroform	1	52.6189	0	50	105	70	130
1,2-Dichloroethane	1	53.56	0	50	107	70	130
2-Butanone	1	49.2553	0	50	99	70	130
Carbon Tetrachloride	1	70.3669	0	50	141*	70	130
Trichloroethene	1	90.5685	0	50	181*	70	130
Benzene	1	44.4028	0	50	89	70	130
Tetrachloroethene	1	69.2638	0	50	139*	70	130
Toluene	1	48.973	0	50	98	70	130
Chlorobenzene	1	52.2753	0	50	105	70	130
1,4-Dichlorobenzene	1	44.1422	0	50	88	70	130
1,2-Dichlorobenzene	1	46.4513	0	50	93	70	130
n-Propylbenzene	1	44.3343	0	50	89	70	130
sec-Butylbenzene	1	39.2375	0	50	78	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: MBS38067

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M16170.D	AC81021-003(MSD)	9/30/2014 10:10:00 AM
Duplicate(If applicable):	6M16164.D	AC81021-003(MS)	9/30/2014 8:30:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Vinyl Chloride	1	32.9971	26.6604	21	30
1,1-Dichloroethene	1	54.6401	39.9385	31 *	30
1,1-Dichloroethane	1	47.213	38.5652	20	30
Chloroform	1	52.6189	43.9389	18	30
1,2-Dichloroethane	1	53.56	43.997	20	30
2-Butanone	1	49.2553	43.6303	12	30
Carbon Tetrachloride	1	70.3669	53.0323	28	30
Trichloroethene	1	90.5685	50.7742	56 *	30
Benzene	1	44.4028	36.2652	20	30
Tetrachloroethene	1	69.2638	51.2294	30	30
Toluene	1	48.973	37.3978	27	30
Chlorobenzene	1	52.2753	40.8982	24	30
1,4-Dichlorobenzene	1	44.1422	37.1476	17	30
1,2-Dichlorobenzene	1	46.4513	37.8971	20	30
n-Propylbenzene	1	44.3343	35.6551	22	30
sec-Butylbenzene	1	39.2375	33.2767	16	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data
QC Batch: MBS38075

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M16190.D	MBS38075	9/30/2014 3:45:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	33.9782	0	50	68 *	70	130
1,1-Dichloroethene	1	53.7048	0	50	107	70	130
1,1-Dichloroethane	1	53.9368	0	50	108	70	130
Chloroform	1	61.1091	0	50	122	70	130
1,2-Dichloroethane	1	60.3085	0	50	121	70	130
2-Butanone	1	54.8304	0	50	110	70	130
Carbon Tetrachloride	1	80.5817	0	50	161 *	70	130
Trichloroethene	1	71.4594	0	50	143 *	70	130
Benzene	1	46.7438	0	50	93	70	130
Tetrachloroethene	1	66.3317	0	50	133 *	70	130
Toluene	1	45.757	0	50	92	70	130
Chlorobenzene	1	50.1796	0	50	100	70	130
1,4-Dichlorobenzene	1	46.73	0	50	93	70	130
1,2-Dichlorobenzene	1	49.9095	0	50	100	70	130
n-Propylbenzene	1	45.0556	0	50	90	70	130
sec-Butylbenzene	1	41.3288	0	50	83	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS38095

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M16297.D	MBS38095	10/2/2014 9:08:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	36.064	0	50	72	70	130
1,1-Dichloroethene	1	55.5833	0	50	111	70	130
1,1-Dichloroethane	1	54.8535	0	50	110	70	130
Chloroform	1	57.186	0	50	114	70	130
1,2-Dichloroethane	1	55.0113	0	50	110	70	130
2-Butanone	1	50.1477	0	50	100	70	130
Carbon Tetrachloride	1	72.5355	0	50	145*	70	130
Trichloroethene	1	75.928	0	50	152*	70	130
Benzene	1	52.5636	0	50	105	70	130
Tetrachloroethene	1	74.1694	0	50	148*	70	130
Toluene	1	53.053	0	50	106	70	130
Chlorobenzene	1	52.6456	0	50	105	70	130
1,4-Dichlorobenzene	1	48.4946	0	50	97	70	130
1,2-Dichlorobenzene	1	50.8407	0	50	102	70	130
n-Propylbenzene	1	48.2781	0	50	97	70	130
sec-Butylbenzene	1	47.4488	0	50	95	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS38103

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M16324.D	MBS38103	10/2/2014 4:36:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	32.2901	0	50	65*	70	130
1,1-Dichloroethene	1	47.7558	0	50	96	70	130
1,1-Dichloroethane	1	43.7424	0	50	87	70	130
Chloroform	1	45.8409	0	50	92	70	130
1,2-Dichloroethane	1	44.9608	0	50	90	70	130
2-Butanone	1	41.6844	0	50	83	70	130
Carbon Tetrachloride	1	48.5641	0	50	97	70	130
Trichloroethene	1	50.8512	0	50	102	70	130
Benzene	1	39.4477	0	50	79	70	130
Tetrachloroethene	1	40.8035	0	50	82	70	130
Toluene	1	33.8419	0	50	68*	70	130
Chlorobenzene	1	34.0766	0	50	68*	70	130
1,4-Dichlorobenzene	1	28.1167	0	50	56*	70	130
1,2-Dichlorobenzene	1	29.6728	0	50	59*	70	130
n-Propylbenzene	1	24.3026	0	50	49*	70	130
sec-Butylbenzene	1	22.2325	0	50	44*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS38112

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M16328.D	MBS38112	10/2/2014 5:42:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C Matrix: Soil QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	18.786	0	50	38*	70	130
1,1-Dichloroethene	1	33.1805	0	50	66*	70	130
1,1-Dichloroethane	1	31.5409	0	50	63*	70	130
Chloroform	1	33.3978	0	50	67*	70	130
1,2-Dichloroethane	1	34.3576	0	50	69*	70	130
2-Butanone	1	37.0673	0	50	74	70	130
Carbon Tetrachloride	1	38.9821	0	50	78	70	130
Trichloroethene	1	41.659	0	50	83	70	130
Benzene	1	30.2481	0	50	60*	70	130
Tetrachloroethene	1	40.1164	0	50	80	70	130
Toluene	1	28.6933	0	50	57*	70	130
Chlorobenzene	1	31.6458	0	50	63*	70	130
1,4-Dichlorobenzene	1	33.7436	0	50	67*	70	130
1,2-Dichlorobenzene	1	33.6409	0	50	67*	70	130
n-Propylbenzene	1	29.0149	0	50	58*	70	130
sec-Butylbenzene	1	26.6961	0	50	53*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 37413

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: SOIL SampleID: AC81025-005

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	37413	1	S16900B	17	S16900B	14	72.9507	49.2869	5	473	b	75	125
Arsenic	37413	1	S16900A3	18	S16900A3	15	0.4459	0.04U	0.5	89		75	125
Barium	37413	1	S16900A3	18	S16900A3	15	1.0685	0.3188	0.5	150	a	75	125
Calcium	37413	1	S16900B	17	S16900B	14	118.0970	355.1420	50	-470	b	75	125
Chromium	37413	1	S16900A3	18	S16900A3	15	0.6905	0.1650	0.5	105		75	125
Cobalt	37413	1	S16900A3	18	S16900A3	15	0.4878	0.1077	0.5	76		75	125
Copper	37413	1	S16900A3	18	S16900A3	15	0.9541	0.4125	0.5	108		75	125
Iron	37413	1	S16900B	17	S16900B	14	164.5340	144.1230	5	408	b	75	125
Lead	37413	1	S16900A3	18	S16900A3	15	1.1260	0.2894	0.5	167	a	75	125
Magnesium	37413	1	S16900B	17	S16900B	14	83.4665	181.0040	50	-200	a	75	125
Manganese	37413	1	S16900B	17	S16900B	14	3.5911	1.8924	0.5	340	a	75	125
Mercury	37413	2	H16900SB	14	H16900SB	11	5.7103	0.5524	10	103		75	125
Nickel	37413	1	S16900A3	18	S16900A3	15	0.6472	0.1686	0.5	96		75	125
Potassium	37413	1	S16900B	17	S16900B	14	55.0993	8.5248	50	93		75	125
Sodium	37413	1	S16900B	17	S16900B	14	48.1148	2.5U	50	96		75	125
Thallium	37413	1	S16900A3	18	S16900A3	15	0.4187	0.015U	0.5	84		75	125
Vanadium	37413	1	S16900A3	18	S16900A3	15	0.6806	0.6145	0.5	13	a	75	125
Zinc	37413	1	S16900A3	18	S16900A3	15	2.2690	0.7184	0.5	310	a	75	125

TxtQcType: MS Matrix: SOIL SampleID: AC81025-003

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	37413	1	S16900B	16	S16900B	14	66.5129	49.2869	5	345	b	75	125
Arsenic	37413	1	S16900A3	17	S16900A3	15	0.4500	0.04U	0.5	90		75	125
Barium	37413	1	S16900A3	17	S16900A3	15	1.0372	0.3188	0.5	144	a	75	125
Calcium	37413	1	S16900B	16	S16900B	14	129.7780	355.1420	50	-450	b	75	125
Chromium	37413	1	S16900A3	17	S16900A3	15	0.6895	0.1650	0.5	105		75	125
Cobalt	37413	1	S16900A3	17	S16900A3	15	0.4896	0.1077	0.5	76		75	125
Copper	37413	1	S16900A3	17	S16900A3	15	0.9938	0.4125	0.5	116		75	125
Iron	37413	1	S16900B	16	S16900B	14	254.5530	144.1230	5	2210	b	75	125
Lead	37413	1	S16900A3	17	S16900A3	15	1.1905	0.2894	0.5	180	a	75	125
Magnesium	37413	1	S16900B	16	S16900B	14	79.6827	181.0040	50	-200	a	75	125
Manganese	37413	1	S16900B	16	S16900B	14	3.6615	1.8924	0.5	354	a	75	125
Mercury	37413	2	H16900SB	13	H16900SB	11	13.5480	0.5524	10	260	a	75	125
Nickel	37413	1	S16900A3	17	S16900A3	15	0.6357	0.1686	0.5	93		75	125
Potassium	37413	1	S16900B	16	S16900B	14	54.0309	8.5248	50	91		75	125
Sodium	37413	1	S16900B	16	S16900B	14	48.9758	2.5U	50	98		75	125
Thallium	37413	1	S16900A3	17	S16900A3	15	0.4104	0.015U	0.5	82		75	125
Vanadium	37413	1	S16900A3	17	S16900A3	15	0.6640	0.6145	0.5	9.9	a	75	125
Zinc	37413	1	S16900A3	17	S16900A3	15	2.3515	0.7184	0.5	327	a	75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 37412

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 37412

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	37412	1	S100214A	29	8.1790	88.8	9.2		0.023	209
Beryllium	37412	1	S100214A	29	81.3700	96.1	85		83	118
Cadmium	37412	1	S100214A	29	81.2800	96	85		82	118
Selenium	37412	1	S100214A	29	151.2000	177	85		77	123
Silver	37412	1	S100214A	29	35.9900	40.2	90		75	125

TxtQcType: LCS Matrix: SOIL SampleID: LCS 37412

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	37412	1	S100214A	17	8.5260	88.8	9.6		0.023	209
Beryllium	37412	1	S100214A	17	84.5100	96.1	88		83	118
Cadmium	37412	1	S100214A	17	82.5400	96	86		82	118
Selenium	37412	1	S100214A	17	149.2000	177	84		77	123
Silver	37412	1	S100214A	17	36.0300	40.2	90		75	125

TxtQcType: MSD Matrix: SOIL SampleID: AC81025-005

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	37412	1	S100214A	23	S100214A	19	45.4400	4U	250	18	a	75	125
Beryllium	37412	1	S100214A	23	S100214A	19	181.5000	1.0600	250	72	a	75	125
Cadmium	37412	1	S100214A	23	S100214A	19	219.8000	2U	250	88		75	125
Selenium	37412	1	S100214A	23	S100214A	19	201.5000	10U	250	81		75	125
Silver	37412	1	S100214A	23	S100214A	19	167.9000	1U	50	336	a	75	125

TxtQcType: MS Matrix: SOIL SampleID: AC81025-003

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	37412	1	S100214A	22	S100214A	19	48.4000	4U	250	19	a	75	125
Beryllium	37412	1	S100214A	22	S100214A	19	185.1000	1.0600	250	74	a	75	125
Cadmium	37412	1	S100214A	22	S100214A	19	217.3000	2U	250	87		75	125
Selenium	37412	1	S100214A	22	S100214A	19	211.4000	10U	250	85		75	125
Silver	37412	1	S100214A	22	S100214A	19	42.9700	1U	50	86		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 37412

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: SOIL SampleID: AC81025-001

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	1	S100214A	24	S100214A	19	47.4900	4U	50	95		80	120
Beryllium	1	S100214A	24	S100214A	19	40.6500	1.0600	50	79	a	80	120
Cadmium	1	S100214A	24	S100214A	19	48.6600	2U	50	97		80	120
Selenium	1	S100214A	24	S100214A	19	228.8000	10U	250	92		80	120
Silver	1	S100214A	24	S100214A	19	47.6900	1U	50	95		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 37413

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 37413

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	37413	S16900B	13	S16900B	12	54.9961	56.1411	2.1		20
Arsenic	37413	S16900A3	14	S16900A3	13	1.2330	1.2361	.25		20
Barium	37413	S16900A3	14	S16900A3	13	1.7566	1.7536	.17		20
Calcium	37413	S16900B	13	S16900B	12	57.2638	56.9330	.58		20
Chromium	37413	S16900A3	14	S16900A3	13	1.2344	1.1987	2.9		20
Cobalt	37413	S16900A3	14	S16900A3	13	1.3575	1.3124	3.4		20
Copper	37413	S16900A3	14	S16900A3	13	1.5403	1.5095	2		20
Iron	37413	S16900B	13	S16900B	12	136.4260	138.0510	1.2		20
Lead	37413	S16900A3	14	S16900A3	13	1.1632	1.1855	1.9		20
Magnesium	37413	S16900B	13	S16900B	12	25.6102	26.2965	2.6		20
Manganese	37413	S16900B	13	S16900B	12	2.7186	2.6757	1.6		20
Mercury	37413	H16900S	15	H16900S	14	16.8351	16.2693	3.4		20
Nickel	37413	S16900A3	14	S16900A3	13	1.1209	1.0801	3.7		20
Potassium	37413	S16900B	13	S16900B	12	21.3019	20.9940	1.5		20
Sodium	37413	S16900B	13	S16900B	12	6.7846	6.7612	.35		20
Thallium	37413	S16900A3	14	S16900A3	13	1.2425	1.2650	1.8		20
Vanadium	37413	S16900A3	14	S16900A3	13	0.9594	0.9438	1.6		20
Zinc	37413	S16900A3	14	S16900A3	13	1.6822	1.6732	.54		20

TxtQcType: MR Matrix: SOIL SampleID: AC81025-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	37413	S16900B	15	S16900B	14	52.2756	49.2869	5.9		20
Arsenic	37413	S16900A3	16	S16900A3	15	0.04U	0.04U	---		20
Barium	37413	S16900A3	16	S16900A3	15	0.5292	0.3188	50	a	20
Calcium	37413	S16900B	15	S16900B	14	49.9850	355.1420	150	b	20
Chromium	37413	S16900A3	16	S16900A3	15	0.2342	0.1650	35	b	20
Cobalt	37413	S16900A3	16	S16900A3	15	0.0486	0.1077	76	b	20
Copper	37413	S16900A3	16	S16900A3	15	0.4239	0.4125	2.7		20
Iron	37413	S16900B	15	S16900B	14	154.8560	144.1230	7.2		20
Lead	37413	S16900A3	16	S16900A3	15	0.5952	0.2894	69	a	20
Magnesium	37413	S16900B	15	S16900B	14	28.2856	181.0040	150	a	20
Manganese	37413	S16900B	15	S16900B	14	2.6914	1.8924	35	a	20
Mercury	37413	H16900SB	12	H16900SB	11	.5U	0.5524	---		20
Nickel	37413	S16900A3	16	S16900A3	15	0.1995	0.1686	17		20
Potassium	37413	S16900B	15	S16900B	14	9.8798	8.5248	15		20
Sodium	37413	S16900B	15	S16900B	14	3.6417	2.5U	---		20
Thallium	37413	S16900A3	16	S16900A3	15	0.015U	0.015U	---		20
Vanadium	37413	S16900A3	16	S16900A3	15	0.1868	0.6145	110	b	20
Zinc	37413	S16900A3	16	S16900A3	15	1.3768	0.7184	63	a	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 37413

Instrument Type: ICP/HG

Analytical Method(s):6010/200.7/7470A/7471A/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: SOIL SampleID: AC81025-005

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	37413	S16900B	17	S16900B	16	72.9507	66.5129	9.2		20
Arsenic	37413	S16900A3	18	S16900A3	17	0.4459	0.4500	.91		20
Barium	37413	S16900A3	18	S16900A3	17	1.0685	1.0372	3		20
Calcium	37413	S16900B	17	S16900B	16	118.0970	129.7780	9.4		20
Chromium	37413	S16900A3	18	S16900A3	17	0.6905	0.6895	.14		20
Cobalt	37413	S16900A3	18	S16900A3	17	0.4878	0.4896	.36		20
Copper	37413	S16900A3	18	S16900A3	17	0.9541	0.9938	4.1		20
Iron	37413	S16900B	17	S16900B	16	164.5340	254.5530	43	a	20
Lead	37413	S16900A3	18	S16900A3	17	1.1260	1.1905	5.6		20
Magnesium	37413	S16900B	17	S16900B	16	83.4665	79.6827	4.6		20
Manganese	37413	S16900B	17	S16900B	16	3.5911	3.6615	1.9		20
Mercury	37413	H16900SB	14	H16900SB	13	5.7103	13.5480	81	a	20
Nickel	37413	S16900A3	18	S16900A3	17	0.6472	0.6357	1.8		20
Potassium	37413	S16900B	17	S16900B	16	55.0993	54.0309	2		20
Sodium	37413	S16900B	17	S16900B	16	48.1148	48.9758	1.8		20
Thallium	37413	S16900A3	18	S16900A3	17	0.4187	0.4104	2		20
Vanadium	37413	S16900A3	18	S16900A3	17	0.6806	0.6640	2.5		20
Zinc	37413	S16900A3	18	S16900A3	17	2.2690	2.3515	3.6		20

TxtQcType: SD Matrix: SOIL SampleID: AC81025-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Aluminum	37413	S16900B	22	S16900B	14	5	9.7199	49.2869	1.4		10
Arsenic	37413	S16900A3	23	S16900A3	15	5	0.0022	0.0135	---		10
Barium	37413	S16900A3	23	S16900A3	15	5	0.0638	0.3188	0.068		10
Calcium	37413	S16900B	22	S16900B	14	5	72.5094	355.1420	2.1		10
Chromium	37413	S16900A3	23	S16900A3	15	5	0.0331	0.1650	0.38		10
Cobalt	37413	S16900A3	23	S16900A3	15	5	0.0223	0.1077	3.6		10
Copper	37413	S16900A3	23	S16900A3	15	5	0.0826	0.4125	0.13		10
Iron	37413	S16900B	22	S16900B	14	5	28.9676	144.1230	0.5		10
Lead	37413	S16900A3	23	S16900A3	15	5	0.0690	0.2894	19	a	10
Magnesium	37413	S16900B	22	S16900B	14	5	34.6968	181.0040	4.2		10
Manganese	37413	S16900B	22	S16900B	14	5	0.3808	1.8924	0.61		10
Nickel	37413	S16900A3	23	S16900A3	15	5	0.0360	0.1686	6.7		10
Potassium	37413	S16900B	22	S16900B	14	5	1.6561	8.5248	2.9		10
Sodium	37413	S16900B	22	S16900B	14	5	0.2264	2.3973	53	a	10
Thallium	37413	S16900A3	23	S16900A3	15	5	-0.0002	-0.0025	---		10
Vanadium	37413	S16900A3	23	S16900A3	15	5	0.1336	0.6145	8.7		10
Zinc	37413	S16900A3	23	S16900A3	15	5	0.1486	0.7184	3.4		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 37412

Instrument Type: ICPMS

Analytical Method(s):6020/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 37412

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Antimony	37412	S100214A	29	S100214A	17	8.1790	8.5260	4.2		20
Beryllium	37412	S100214A	29	S100214A	17	81.3700	84.5100	3.8		20
Cadmium	37412	S100214A	29	S100214A	17	81.2800	82.5400	1.5		20
Selenium	37412	S100214A	29	S100214A	17	151.2000	149.2000	1.3		20
Silver	37412	S100214A	29	S100214A	17	35.9900	36.0300	.11		20

TxtQcType: MR Matrix: SOIL SampleID: AC81025-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Antimony	37412	S100214A	20	S100214A	19	4U	4U	---		20
Beryllium	37412	S100214A	20	S100214A	19	1U	1.0600	---		20
Cadmium	37412	S100214A	20	S100214A	19	2U	2U	---		20
Selenium	37412	S100214A	20	S100214A	19	10U	10U	---		20
Silver	37412	S100214A	20	S100214A	19	1U	1U	---		20

TxtQcType: MSD Matrix: SOIL SampleID: AC81025-005

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Antimony	37412	S100214A	23	S100214A	22	45.4400	48.4000	6.3		20
Beryllium	37412	S100214A	23	S100214A	22	181.5000	185.1000	2		20
Cadmium	37412	S100214A	23	S100214A	22	219.8000	217.3000	1.1		20
Selenium	37412	S100214A	23	S100214A	22	201.5000	211.4000	4.8		20
Silver	37412	S100214A	23	S100214A	22	167.9000	42.9700	118	a	20

TxtQcType: SD Matrix: SOIL SampleID: AC81025-001

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Antimony	37412	S100214A	21	S100214A	19	5	-0.1561	0.0442	---		10
Beryllium	37412	S100214A	21	S100214A	19	5	0.1915	1.0600	9.7		10
Cadmium	37412	S100214A	21	S100214A	19	5	0.2815	1.6210	13	a	10
Selenium	37412	S100214A	21	S100214A	19	5	0.2865	2.6460	---		10
Silver	37412	S100214A	21	S100214A	19	5	0.1048	0.5600	6.4		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

MDL = Method Detection Limit

RL* = Reporting Limit

ND = Not Detected

RT = Retention Time

NA = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

HC Report of Analysis

Client: LIRO Engineers, Inc.
Project: South Bronx Family

HC Project #: 4092919

Sample ID: MW-03-3'-4'-
Lab#: AC81144-001
Matrix: Soil

Collection Date: 9/29/2014
Receipt Date: 9/29/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

Mercury (Soil/Waste) 7471A

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.092	0.31

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
Aldrin	1	mg/kg	0.0055	ND
Alpha-BHC	1	mg/kg	0.0011	ND
beta-BHC	1	mg/kg	0.0011	ND
Chlordane	1	mg/kg	0.027	ND
delta-BHC	1	mg/kg	0.0055	ND
Dieldrin	1	mg/kg	0.0011	ND
Endosulfan I	1	mg/kg	0.0055	ND
Endosulfan II	1	mg/kg	0.0055	ND
Endosulfan Sulfate	1	mg/kg	0.0055	ND
Endrin	1	mg/kg	0.0055	ND
Endrin Aldehyde	1	mg/kg	0.0055	ND
Endrin Ketone	1	mg/kg	0.0055	ND
gamma-BHC	1	mg/kg	0.0011	ND
Heptachlor	1	mg/kg	0.0055	ND
Heptachlor Epoxide	1	mg/kg	0.0055	ND
Methoxychlor	1	mg/kg	0.0055	ND
p,p'-DDD	1	mg/kg	0.0027	ND
p,p'-DDE	1	mg/kg	0.0027	ND
p,p'-DDT	1	mg/kg	0.0027	ND
Toxaphene	1	mg/kg	0.027	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	3	mg/kg	0.22	ND
1,2,4,5-Tetrachlorobenzene	3	mg/kg	0.22	ND
2,3,4,6-Tetrachlorophenol	3	mg/kg	0.22	ND
2,4,5-Trichlorophenol	3	mg/kg	0.22	ND
2,4,6-Trichlorophenol	3	mg/kg	0.22	ND

Sample ID: MW-03-3'-4'- **Collection Date: 9/29/2014**
Lab#: AC81144-001 **Receipt Date: 9/29/2014**
Matrix: Soil

2,4-Dichlorophenol	3	mg/kg	0.055	ND
2,4-Dimethylphenol	3	mg/kg	0.055	ND
2,4-Dinitrophenol	3	mg/kg	1.1	ND
2,4-Dinitrotoluene	3	mg/kg	0.22	ND
2,6-Dinitrotoluene	3	mg/kg	0.22	ND
2-Chloronaphthalene	3	mg/kg	0.22	ND
2-Chlorophenol	3	mg/kg	0.22	ND
2-Methylnaphthalene	3	mg/kg	0.22	ND
2-Methylphenol	3	mg/kg	0.055	ND
2-Nitroaniline	3	mg/kg	0.22	ND
2-Nitrophenol	3	mg/kg	0.22	ND
3&4-Methylphenol	3	mg/kg	0.055	ND
3,3'-Dichlorobenzidine	3	mg/kg	0.22	ND
3-Nitroaniline	3	mg/kg	0.22	ND
4,6-Dinitro-2-methylphenol	3	mg/kg	1.1	ND
4-Bromophenyl-phenylether	3	mg/kg	0.22	ND
4-Chloro-3-methylphenol	3	mg/kg	0.22	ND
4-Chloroaniline	3	mg/kg	0.10	ND
4-Chlorophenyl-phenylether	3	mg/kg	0.22	ND
4-Nitroaniline	3	mg/kg	0.22	ND
4-Nitrophenol	3	mg/kg	0.22	ND
Acenaphthene	**3**	**mg/kg**	**0.22**	**0.29**
Acenaphthylene	3	mg/kg	0.22	ND
Acetophenone	3	mg/kg	0.22	ND
Anthracene	**3**	**mg/kg**	**0.22**	**0.74**
Atrazine	3	mg/kg	0.22	ND
Benzaldehyde	3	mg/kg	0.22	ND
Benzo[a]anthracene	**3**	**mg/kg**	**0.22**	**2.3**
Benzo[a]pyrene	**3**	**mg/kg**	**0.22**	**1.9**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.22**	**2.3**
Benzo[g,h,i]perylene	**3**	**mg/kg**	**0.22**	**1.2**
Benzo[k]fluoranthene	**3**	**mg/kg**	**0.22**	**0.62**
bis(2-Chloroethoxy)methane	3	mg/kg	0.22	ND
bis(2-Chloroethyl)ether	3	mg/kg	0.055	ND
bis(2-Chloroisopropyl)ether	3	mg/kg	0.22	ND
bis(2-Ethylhexyl)phthalate	3	mg/kg	0.22	ND
Butylbenzylphthalate	3	mg/kg	0.22	ND
Caprolactam	3	mg/kg	0.22	ND
Carbazole	3	mg/kg	0.22	ND
Chrysene	**3**	**mg/kg**	**0.22**	**1.9**
Dibenzo[a,h]anthracene	**3**	**mg/kg**	**0.22**	**0.29**
Dibenzofuran	**3**	**mg/kg**	**0.055**	**0.12**
Diethylphthalate	3	mg/kg	0.22	ND
Dimethylphthalate	3	mg/kg	0.22	ND
Di-n-butylphthalate	3	mg/kg	0.11	ND
Di-n-octylphthalate	3	mg/kg	0.22	ND
Fluoranthene	**3**	**mg/kg**	**0.22**	**4.1**
Fluorene	3	mg/kg	0.22	ND
Hexachlorobenzene	3	mg/kg	0.22	ND
Hexachlorobutadiene	3	mg/kg	0.22	ND
Hexachlorocyclopentadiene	3	mg/kg	0.22	ND
Hexachloroethane	3	mg/kg	0.22	ND
Indeno[1,2,3-cd]pyrene	**3**	**mg/kg**	**0.22**	**1.0**
Isophorone	3	mg/kg	0.22	ND
Naphthalene	**3**	**mg/kg**	**0.055**	**0.072**
Nitrobenzene	3	mg/kg	0.22	ND
N-Nitroso-di-n-propylamine	3	mg/kg	0.055	ND

Sample ID: MW-03-3'-4'- **Collection Date: 9/29/2014**
Lab#: AC81144-001 **Receipt Date: 9/29/2014**
Matrix: Soil

N-Nitrosodiphenylamine	3	mg/kg	0.22	ND
Pentachlorophenol	3	mg/kg	1.1	ND
Phenanthrene	**3**	**mg/kg**	**0.22**	**3.4**
Phenol	3	mg/kg	0.22	ND
Pyrene	**3**	**mg/kg**	**0.22**	**5.3**

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**220**	**6100**
Arsenic	1	mg/kg	4.4	ND
Barium	**1**	**mg/kg**	**11**	**100**
Calcium	**1**	**mg/kg**	**1100**	**11000**
Chromium	**1**	**mg/kg**	**5.5**	**13**
Cobalt	**1**	**mg/kg**	**2.7**	**5.6**
Copper	**1**	**mg/kg**	**5.5**	**24**
Iron	**1**	**mg/kg**	**220**	**12000**
Lead	**1**	**mg/kg**	**5.5**	**86**
Magnesium	**1**	**mg/kg**	**550**	**3800**
Manganese	**1**	**mg/kg**	**11**	**160**
Nickel	**1**	**mg/kg**	**5.5**	**15**
Potassium	**1**	**mg/kg**	**550**	**2100**
Sodium	1	mg/kg	270	ND
Thallium	1	mg/kg	1.6	ND
Vanadium	**1**	**mg/kg**	**11**	**24**
Zinc	**1**	**mg/kg**	**11**	**37**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.88	ND
Beryllium	1	mg/kg	0.22	ND
Cadmium	1	mg/kg	0.44	ND
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.986	mg/kg	0.0022	ND
1,1,2,2-Tetrachloroethane	0.986	mg/kg	0.0022	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.986	mg/kg	0.0022	ND
1,1,2-Trichloroethane	0.986	mg/kg	0.0022	ND
1,1-Dichloroethane	0.986	mg/kg	0.0022	ND
1,1-Dichloroethene	0.986	mg/kg	0.0022	ND
1,2,3-Trichlorobenzene	0.986	mg/kg	0.0022	ND
1,2,4-Trichlorobenzene	0.986	mg/kg	0.0022	ND
1,2-Dibromo-3-chloropropane	0.986	mg/kg	0.0022	ND
1,2-Dibromoethane	0.986	mg/kg	0.0022	ND
1,2-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,2-Dichloroethane	0.986	mg/kg	0.0011	ND
1,2-Dichloropropane	0.986	mg/kg	0.0022	ND
1,3-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,4-Dichlorobenzene	0.986	mg/kg	0.0022	ND
1,4-Dioxane	0.986	mg/kg	0.11	ND
2-Butanone	0.986	mg/kg	0.0022	ND
2-Hexanone	0.986	mg/kg	0.0022	ND
4-Methyl-2-pentanone	0.986	mg/kg	0.0022	ND
Acetone	**0.986**	**mg/kg**	**0.011**	**0.033**
Benzene	0.986	mg/kg	0.0011	ND
Bromochloromethane	0.986	mg/kg	0.0022	ND

Sample ID: MW-03-3'-4'-
Lab#: AC81144-001
Matrix: Soil

Collection Date: 9/29/2014
Receipt Date: 9/29/2014

Bromodichloromethane	0.986	mg/kg	0.0022	ND
Bromoform	0.986	mg/kg	0.0022	ND
Bromomethane	0.986	mg/kg	0.0022	ND
Carbon disulfide	0.986	mg/kg	0.0022	ND
Carbon tetrachloride	0.986	mg/kg	0.0022	ND
Chlorobenzene	0.986	mg/kg	0.0022	ND
Chloroethane	0.986	mg/kg	0.0022	ND
Chloroform	0.986	mg/kg	0.0022	ND
Chloromethane	0.986	mg/kg	0.0022	ND
cis-1,2-Dichloroethene	0.986	mg/kg	0.0022	ND
cis-1,3-Dichloropropene	0.986	mg/kg	0.0022	ND
Cyclohexane	0.986	mg/kg	0.0022	ND
Dibromochloromethane	0.986	mg/kg	0.0022	ND
Dichlorodifluoromethane	0.986	mg/kg	0.0022	ND
Ethylbenzene	**0.986**	**mg/kg**	**0.0011**	**0.0039**
Isopropylbenzene	**0.986**	**mg/kg**	**0.0011**	**0.0014**
m&p-Xylenes	**0.986**	**mg/kg**	**0.0011**	**0.0069**
Methyl Acetate	0.986	mg/kg	0.0022	ND
Methylcyclohexane	0.986	mg/kg	0.0022	ND
Methylene chloride	**0.986**	**mg/kg**	**0.0022**	**0.031**
Methyl-t-butyl ether	0.986	mg/kg	0.0011	ND
o-Xylene	0.986	mg/kg	0.0011	ND
Styrene	0.986	mg/kg	0.0022	ND
Tetrachloroethene	0.986	mg/kg	0.0022	ND
Toluene	0.986	mg/kg	0.0011	ND
trans-1,2-Dichloroethene	0.986	mg/kg	0.0022	ND
trans-1,3-Dichloropropene	0.986	mg/kg	0.0022	ND
Trichloroethene	0.986	mg/kg	0.0022	ND
Trichlorofluoromethane	0.986	mg/kg	0.0022	ND
Vinyl chloride	0.986	mg/kg	0.0022	ND
Xylenes (Total)	**0.986**	**mg/kg**	**0.0011**	**0.0069**

Sample ID: MW-03-11'-11.5'
Lab#: AC81144-002
Matrix: Soil

Collection Date: 9/29/2014
Receipt Date: 9/29/2014

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		74

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	99.4	mg/kg	0.13	0.54
1,3,5-Trimethylbenzene	99.4	mg/kg	0.13	0.19
4-Isopropyltoluene	99.4	mg/kg	0.13	ND
Benzene	99.4	mg/kg	0.067	0.17
Ethylbenzene	99.4	mg/kg	0.13	0.33
Isopropylbenzene	99.4	mg/kg	0.13	2.3
m&p-Xylenes	99.4	mg/kg	0.13	0.81
Naphthalene	99.4	mg/kg	0.13	0.68
n-Butylbenzene	99.4	mg/kg	0.13	7.8
n-Propylbenzene	99.4	mg/kg	0.13	7.6
o-Xylene	99.4	mg/kg	0.13	0.26
sec-Butylbenzene	99.4	mg/kg	0.13	2.2
t-Butylbenzene	99.4	mg/kg	0.13	0.30
Toluene	99.4	mg/kg	0.13	ND
Xylenes (Total)	99.4	mg/kg	0.13	1.07

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC81144-001
Client Id: MW-03-3'-4'-
Data File: 6M16332.D
Analysis Date: 10/02/14 18:49
Date Rec/Extracted: 09/29/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.07g
Final Vol: NA
Dilution: 0.986
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	75-00-3	Chloroethane	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	67-66-3	Chloroform	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
75-71-8	Dichlorodifluoromethane	0.0022	U	96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U
100-41-4	**Ethylbenzene**	**0.0011**	**0.0039**	106-93-4	1,2-Dibromoethane	0.0022	U
98-82-8	**Isopropylbenzene**	**0.0011**	**0.0014**	95-50-1	1,2-Dichlorobenzene	0.0022	U
136777612	**m&p-Xylenes**	**0.0011**	**0.0069**	107-06-2	1,2-Dichloroethane	0.0011	U
79-20-9	Methyl Acetate	0.0022	U	78-87-5	1,2-Dichloropropane	0.0022	U
108-87-2	Methylcyclohexane	0.0022	U	**75-09-2**	**Methylene Chloride**	**0.0022**	**0.031**
541-73-1	1,3-Dichlorobenzene	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	123-91-1	1,4-Dioxane	0.11	U
78-93-3	2-Butanone	0.0022	U	591-78-6	2-Hexanone	0.0022	U
95-47-6	o-Xylene	0.0011	U	108-10-1	4-Methyl-2-Pentanone	0.0022	U
100-42-5	Styrene	0.0022	U	**67-64-1**	**Acetone**	**0.011**	**0.033**
71-43-2	Benzene	0.0011	U	127-18-4	Tetrachloroethene	0.0022	U
74-97-5	Bromochloromethane	0.0022	U	108-88-3	Toluene	0.0011	U
75-27-4	Bromodichloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-25-2	Bromoform	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
74-83-9	Bromomethane	0.0022	U	79-01-6	Trichloroethene	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
56-23-5	Carbon Tetrachloride	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	**Xylenes (Total)**	**0.0011**	**0.0069**				

Worksheet #: 320311

Total Target Concentration 0.076

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4092919 0029

SampleID : AC81144-001 Operator : SG Qt Meth : 6M_S0910.M
Data File: 6M16332.D Sam Mult : 1 Vial# : 32 Qt On : 10/03/14 07:37
Acq On : 10/ 2/14 18:49 Misc : S,5g!3 Qt Upd On: 09/15/14 17:01

Data Path : G:\GcMsData\2014\GCMS_6\Data\10-02-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.469	96	395532	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.032	117	248674	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.258	152	98581	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.055	111	84295	29.58	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.60%			
39) 1,2-Dichloroethane-d4	4.271	67	33583	24.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 81.03%			
66) Toluene-d8	5.293	98	368166	26.10	ug/l	0.00
Spiked Amount 30.000			Recovery = 87.00%			
76) Bromofluorobenzene	6.633	174	82812	33.52	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.73%			
Target Compounds						Qvalue
15) Methylene Chloride	2.726	84	152309	28.8403	ug/l	81
19) Acetone	2.414	43	13987	30.7666	ug/l	89
74) Ethylbenzene	6.098	106	28675	3.5820	ug/l	78
78) m&p-Xylenes	6.152	106	63250	6.3946	ug/l	93
84) Isopropylbenzene	6.549	105	29709	1.2784	ug/l	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

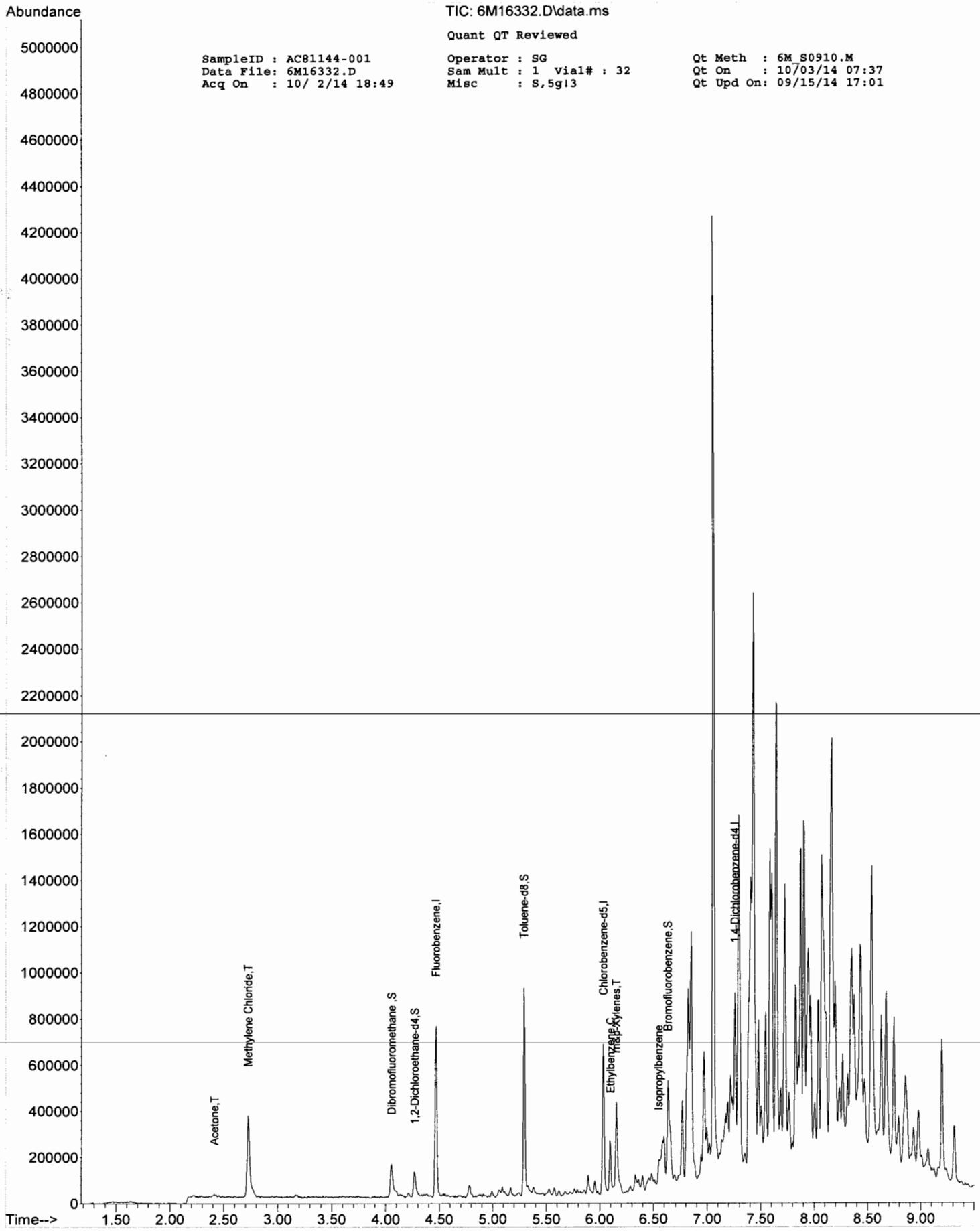
TIC: 6M16332.D\data.ms

Quant QT Reviewed

SampleID : AC81144-001
Data File: 6M16332.D
Acq On : 10/ 2/14 18:49

Operator : SG
Sam Mult : 1 Vial# : 32
Misc : S,5g|3

Qt Meth : 6M_S0910.M
Qt On : 10/03/14 07:37
Qt Upd On: 09/15/14 17:01



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC81144-002
Client Id: MW-03-11'-11.5'
Data File: 2M24603.D
Analysis Date: 10/07/14 11:58
Date Rec/Extracted: 09/29/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Methanol
Extraction Ratio: 5.03g:10ml
Final Vol: NA
Dilution: 99.4
Solids: 74

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	**1,2,4-Trimethylbenzene**	**0.13**	**0.54**	**100-41-4**	**Ethylbenzene**	**0.13**	**0.33**
98-82-8	**Isopropylbenzene**	**0.13**	**2.3**	**136777612**	**m&p-Xylenes**	**0.13**	**0.81**
108-67-8	**1,3,5-Trimethylbenzene**	**0.13**	**0.19**	**91-20-3**	**Naphthalene**	**0.13**	**0.68**
104-51-8	**n-Butylbenzene**	**0.13**	**7.8**	**103-65-1**	**n-Propylbenzene**	**0.13**	**7.6**
95-47-6	**o-Xylene**	**0.13**	**0.26**	99-87-6	4-Isopropyltoluene	0.13	U
135-98-8	**sec-Butylbenzene**	**0.13**	**2.2**	**98-06-6**	**t-Butylbenzene**	**0.13**	**0.30**
71-43-2	**Benzene**	**0.067**	**0.17**	108-88-3	Toluene	0.13	U
1330-20-7	**Xylenes (Total)**	**0.13**	**1.07**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

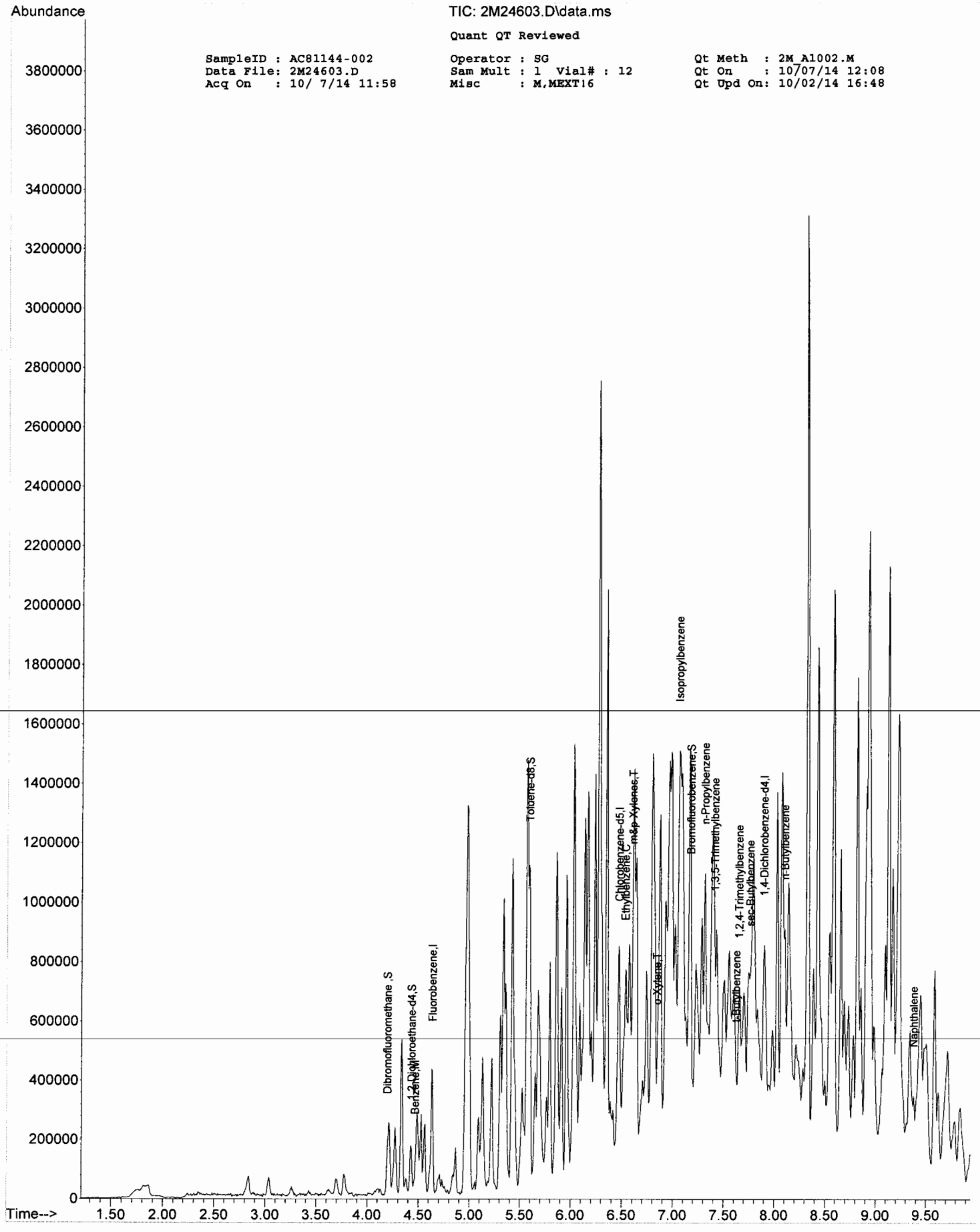
4092919 0032

SampleID : AC81144-002 Operator : SG Qt Meth : 2M_A1002.M
Data File: 2M24603.D Sam Mult : 1 Vial# : 12 Qt On : 10/07/14 12:08
Acq On : 10/ 7/14 11:58 Misc : M,MEXT!6 Qt Upd On: 10/02/14 16:48

Data Path : G:\GcMsData\2014\GCMS_2\Data\10-07-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.636	96	225767	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.475	117	172081	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.899	152	88723	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.198	111	60543	27.15	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.50%			
39) 1,2-Dichloroethane-d4	4.432	67	42353	29.37	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.90%			
66) Toluene-d8	5.598	98	270646	36.63	ug/l	0.00
Spiked Amount 30.000			Recovery = 122.10%			
76) Bromofluorobenzene	7.178	174	78132	27.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.17%			
Target Compounds						Qvalue
50) Benzene	4.468	78	9819	1.2372	ug/l	100
74) Ethylbenzene	6.535	106	5103	2.4242	ug/l	64
78) m&p-Xylenes	6.607	106	20784	6.0651	ug/l	54
79) o-Xylene	6.847	106	6625	1.9163	ug/l	32
84) Isopropylbenzene	7.064	105	128635	17.1671	ug/l	88
91) n-Propylbenzene	7.316	91	453909	56.3542	ug/l	99
93) 1,3,5-Trimethylbenzene	7.412	105	8650	1.4243	ug/l	80
95) t-Butylbenzene	7.622	119	12084	2.2581	ug/l	85
96) 1,2,4-Trimethylbenzene	7.652	105	27144	4.0296	ug/l	93
97) sec-Butylbenzene	7.760	105	97161	16.1974	ug/l	31
99) n-Butylbenzene	8.103	91	329271	58.3336	ug/l	83
107) Naphthalene	9.377	128	27976	5.0366	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M24603.D\data.ms
Quant QT Reviewed
SampleID : AC81144-002
Data File: 2M24603.D
Acq On : 10/ 7/14 11:58
Operator : SG
Sam Mult : 1 Vial# : 12
Misc : M,MEXT16
Qt Meth : 2M_A1002.M
Qt On : 10/07/14 12:08
Qt Upd On: 10/02/14 16:48
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Benzene,M
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
o-Xylene,T
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
Naphthalene
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC81144-001(3X)
Client Id: MW-03-3'-4'-
Data File: 7M67428.D
Analysis Date: 10/03/14 19:40
Date Rec/Extracted: 09/29/14-10/03/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 1ml
Dilution: 3
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.22	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.22**	**2.3**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.22	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.22**	**1.2**
58-90-2	2,3,4,6-Tetrachlorophenol	0.22	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.22**	**0.62**
95-95-4	2,4,5-Trichlorophenol	0.22	U	111-91-1	bis(2-Chloroethoxy)methan	0.22	U
88-06-2	2,4,6-Trichlorophenol	0.22	U	111-44-4	bis(2-Chloroethyl)ether	0.055	U
120-83-2	2,4-Dichlorophenol	0.055	U	108-60-1	bis(2-chloroisopropyl)ether	0.22	U
105-67-9	2,4-Dimethylphenol	0.055	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.22	U
51-28-5	2,4-Dinitrophenol	1.1	U	85-68-7	Butylbenzylphthalate	0.22	U
121-14-2	2,4-Dinitrotoluene	0.22	U	105-60-2	Caprolactam	0.22	U
606-20-2	2,6-Dinitrotoluene	0.22	U	86-74-8	Carbazole	0.22	U
91-58-7	2-Chloronaphthalene	0.22	U	**218-01-9**	**Chrysene**	**0.22**	**1.9**
95-57-8	2-Chlorophenol	0.22	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.22**	**0.29**
91-57-6	2-Methylnaphthalene	0.22	U	**132-64-9**	**Dibenzofuran**	**0.055**	**0.12**
95-48-7	2-Methylphenol	0.055	U	84-66-2	Diethylphthalate	0.22	U
88-74-4	2-Nitroaniline	0.22	U	131-11-3	Dimethylphthalate	0.22	U
88-75-5	2-Nitrophenol	0.22	U	84-74-2	Di-n-butylphthalate	0.11	U
106-44-5	3&4-Methylphenol	0.055	U	117-84-0	Di-n-octylphthalate	0.22	U
91-94-1	3,3'-Dichlorobenzidine	0.22	U	**206-44-0**	**Fluoranthene**	**0.22**	**4.1**
99-09-2	3-Nitroaniline	0.22	U	86-73-7	Fluorene	0.22	U
534-52-1	4,6-Dinitro-2-methylphenol	1.1	U	118-74-1	Hexachlorobenzene	0.22	U
101-55-3	4-Bromophenyl-phenylether	0.22	U	87-68-3	Hexachlorobutadiene	0.22	U
59-50-7	4-Chloro-3-methylphenol	0.22	U	77-47-4	Hexachlorocyclopentadiene	0.22	U
106-47-8	4-Chloroaniline	0.10	U	67-72-1	Hexachloroethane	0.22	U
7005-72-3	4-Chlorophenyl-phenylether	0.22	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.22**	**1.0**
100-01-6	4-Nitroaniline	0.22	U	78-59-1	Isophorone	0.22	U
100-02-7	4-Nitrophenol	0.22	U	**91-20-3**	**Naphthalene**	**0.055**	**0.072**
83-32-9	**Acenaphthene**	**0.22**	**0.29**	98-95-3	Nitrobenzene	0.22	U
208-96-8	Acenaphthylene	0.22	U	621-64-7	N-Nitroso-di-n-propylamine	0.055	U
98-86-2	Acetophenone	0.22	U	86-30-6	n-Nitrosodiphenylamine	0.22	U
120-12-7	**Anthracene**	**0.22**	**0.74**	87-86-5	Pentachlorophenol	1.1	U
1912-24-9	Atrazine	0.22	U	**85-01-8**	**Phenanthrene**	**0.22**	**3.4**
100-52-7	Benzaldehyde	0.22	U	108-95-2	Phenol	0.22	U
56-55-3	**Benzo[a]anthracene**	**0.22**	**2.3**	**129-00-0**	**Pyrene**	**0.22**	**5.3**
50-32-8	**Benzo[a]pyrene**	**0.22**	**1.9**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

4092919 0035

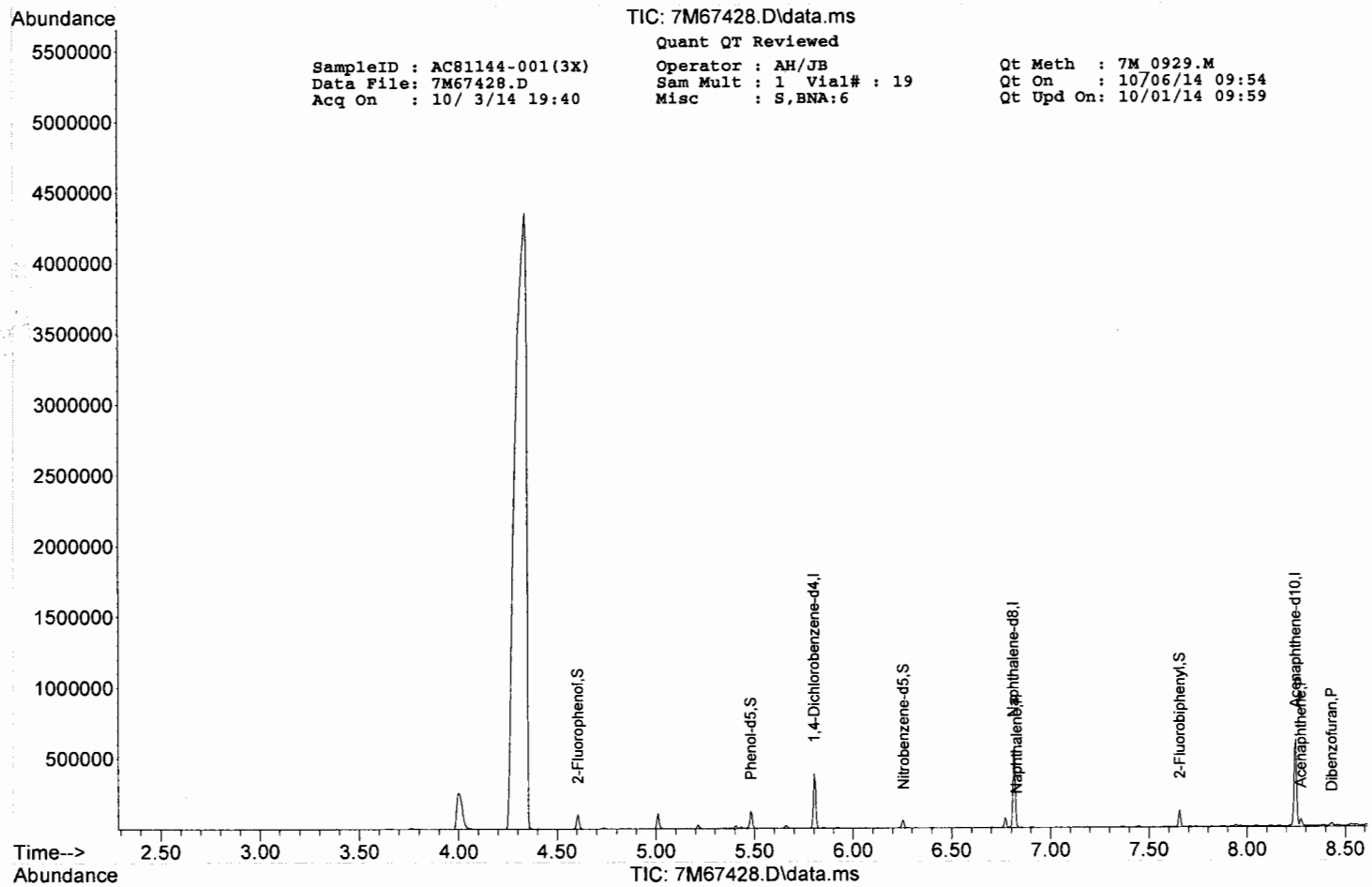
SampleID : AC81144-001(3X) Operator : AH/JB Qt Meth : 7M_0929.M
Data File: 7M67428.D Sam Mult : 1 Vial# : 19 Qt On : 10/06/14 09:54
Acq On : 10/ 3/14 19:40 Misc : S,BNA:6 Qt Upd On: 10/01/14 09:59

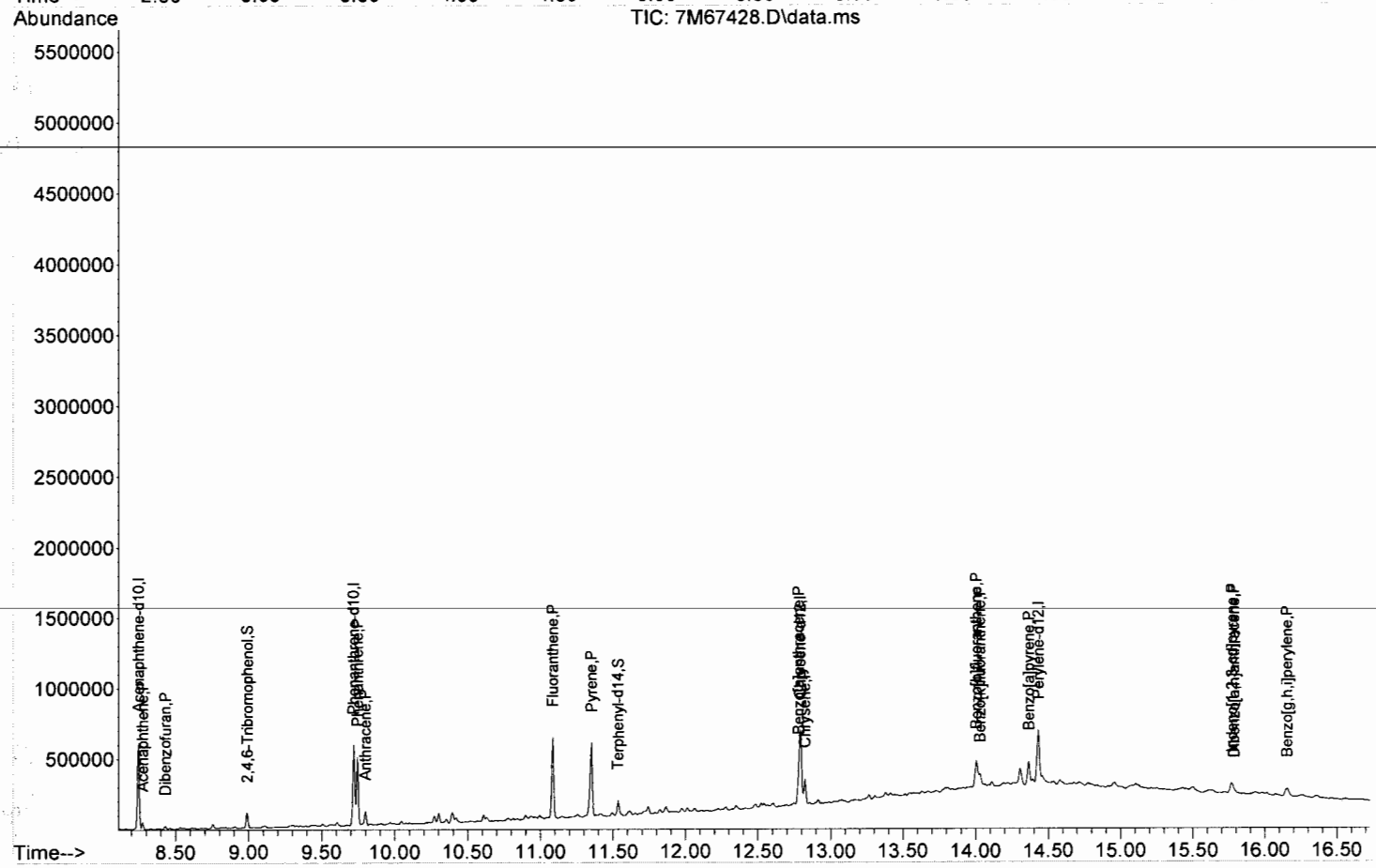
Data Path : G:\GcMsData\2014\GCMS_7\Data\10-0314\
Qt Path : G:\GCMSDATA\2014\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dichlorobenzene-d4	5.803	152	45957	40.00	ng	0.00
29) Naphthalene-d8	6.812	136	191257	40.00	ng	-0.02
47) Acenaphthene-d10	8.249	164	118023	40.00	ng	-0.01
74) Phenanthrene-d10	9.718	188	198872	40.00	ng	-0.01
88) Chrysene-d12	12.790	240	167356	40.00	ng	-0.01
100) Perylene-d12	14.430	264	167671	40.00	ng	0.00
System Monitoring Compounds						
10) 2-Fluorophenol	4.606	112	21322	14.99	ng	0.00
Spiked Amount 100.000			Recovery = 14.99%			
15) Phenol-d5	5.482	99	33553	16.10	ng	0.00
Spiked Amount 100.000			Recovery = 16.10%			
30) Nitrobenzene-d5	6.257	128	5783	7.33	ng	0.00
Spiked Amount 50.000			Recovery = 14.66%			
52) 2-Fluorobiphenyl	7.656	172	28895	7.43	ng	-0.01
Spiked Amount 50.000			Recovery = 14.86%			
77) 2,4,6-Tribromophenol	8.992	330	10129	15.15	ng	-0.01
Spiked Amount 100.000			Recovery = 15.15%			
91) Terphenyl-d14	11.535	244	23457	9.60	ng	-0.01
Spiked Amount 50.000			Recovery = 19.20%			
Target Compounds						Qvalue
39) Naphthalene	6.828	128	3376	0.6543	ng	95
62) Acenaphthene	8.276	153	9247	2.6224	ng	93
65) Dibenzofuran	8.431	168	5276	1.0859	ng	98
83) Phenanthrene	9.745	178	163211	30.4925	ng	99
84) Anthracene	9.799	178	35888	6.7056	ng	98
87) Fluoranthene	11.086	202	220484	37.2328	ng	91
89) Pyrene	11.353	202	215455	48.0346	ng	87
97) Benzo[a]anthracene	12.779	228	88504	20.4829	ng	98
98) Chrysene	12.822	228	71726	17.0687	ng	98
102) Benzo[b]fluoranthene	14.003	252	98066m	21.2889	ng	
103) Benzo[k]fluoranthene	14.030	252	26195m	5.6415	ng	
104) Benzo[a]pyrene	14.366	252	75323	17.6622	ng	90
105) Indeno[1,2,3-cd]pyrene	15.771	276	44824	9.4973	ng	66
106) Dibenzo[a,h]anthracene	15.787	278	10293	2.6293	ng	80
107) Benzo[g,h,i]perylene	16.156	276	42364	10.8695	ng	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed

lu


Abundance
TIC: 7M67428.D\data.ms
Quant QT Reviewed
SampleID : AC81144-001(3X)
Data File: 7M67428.D
Acq On : 10/ 3/14 19:40
Operator : AH/JB
Sam Mult : 1 Vial# : 19
Misc : S,BNA:6
Qt Meth : 7M_0929.M
Qt On : 10/06/14 09:54
Qt Upd On: 10/01/14 09:59
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Dibenzofuran,P
Time-->


Abundance
TIC: 7M67428.D\data.ms
Acenaphthene-d10,I
Dibenzofuran,P
2,4,6-Tribromophenol,S
Anthracene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS PCB REPORT

Sample Number: AC81144-001
Client Id: MW-03-3'-4'-
Data File: 2G94484.D
Analysis Date: 10/02/14 04:00
Date Rec/Extracted: 09/29/14-10/01/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.027	U	11097-69-1	Aroclor-1254	0.027	U
11104-28-2	Aroclor-1221	0.027	U	11096-82-5	Aroclor-1260	0.027	U
11141-16-5	Aroclor-1232	0.027	U	37324-23-5	Aroclor-1262	0.027	U
53469-21-9	Aroclor-1242	0.027	U	11100-14-4	Aroclor-1268	0.027	U
12672-29-6	Aroclor-1248	0.027	U	1336-36-3	Aroclor (Total)	0.027	U

Worksheet #: 319921

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

4092919 0038

Data Path : G:\Gcdata\2014\GC_2\Data\10-01-14\
Data File : 2G94484.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Oct 2014 4:00
Operator : KD/MLC
Sample : AC81144-001
Misc : S,PCB
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Oct 02 09:51:25 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0918.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Sep 19 09:35:43 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

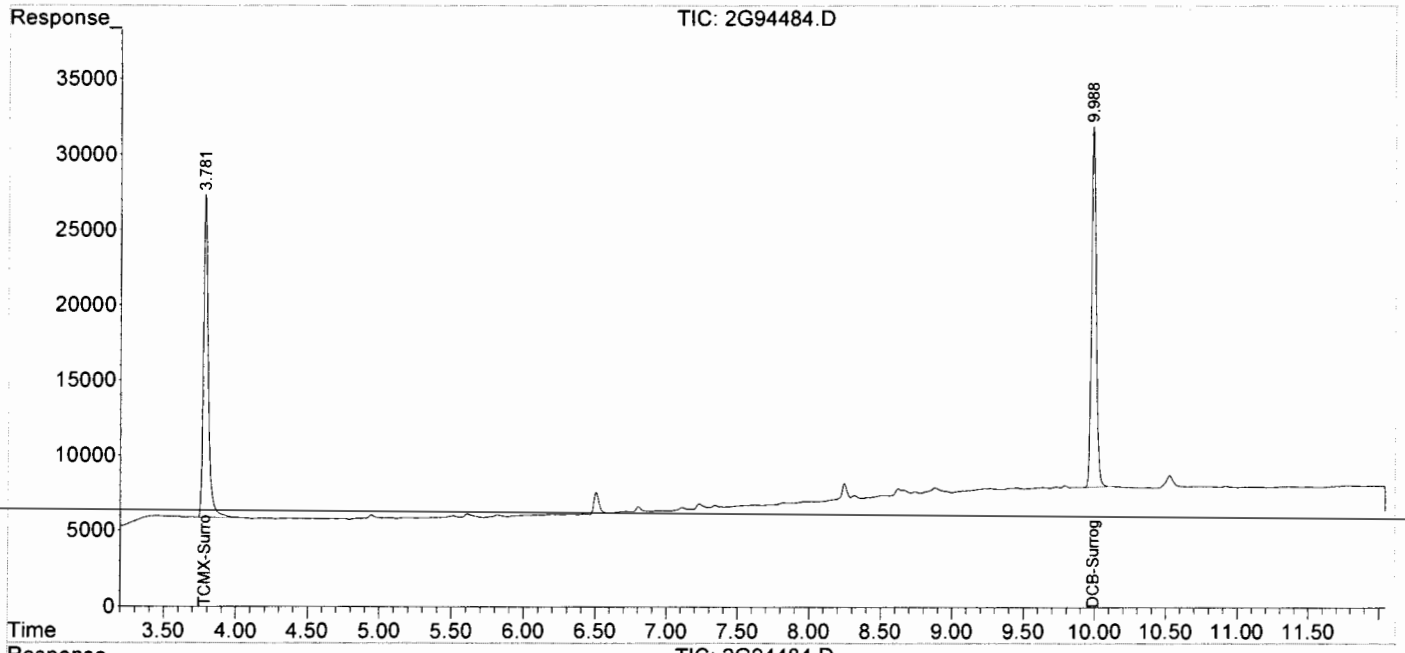
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.781	4.041	504856	230846	74.377m	77.023
45)DCB-Surrogate	9.989	11.040	546602	251532	75.418	85.374m

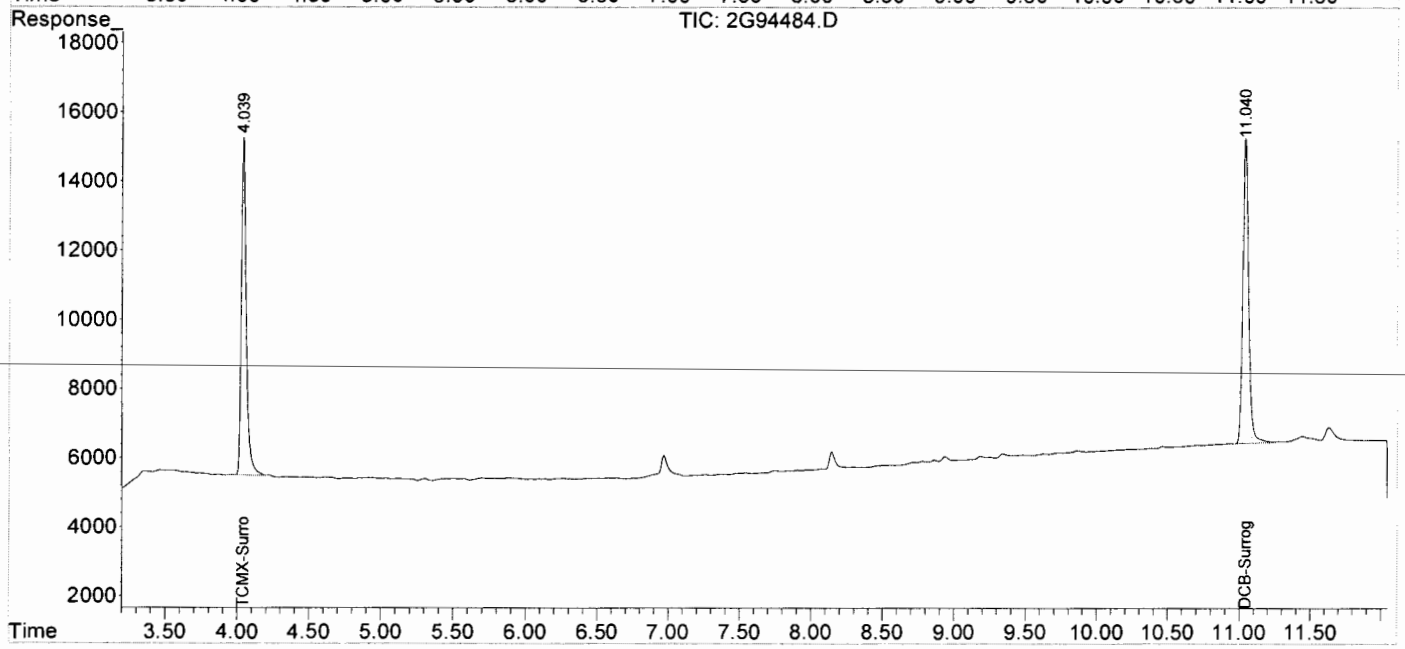
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_2\Data\10-01-14\
Data File : 2G94484.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Oct 2014 4:00
Operator : KD/MLC
Sample : AC81144-001
Misc : S,PCB
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Oct 02 09:51:25 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0918.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Sep 19 09:35:43 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AC81144-001
Client Id: MW-03-3'-4'-
Data File: 6G52379.D
Analysis Date: 10/02/14 06:16
Date Rec/Extracted: 09/29/14-10/01/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0055	U	7421-93-4	Endrin Aldehyde	0.0055	U
319-84-6	alpha-BHC	0.0011	U	53494-70-5	Endrin Ketone	0.0055	U
319-85-7	beta-BHC	0.0011	U	58-89-9	gamma-BHC	0.0011	U
57-74-9	Chlordane	0.027	U	76-44-8	Heptachlor	0.0055	U
319-86-8	delta-BHC	0.0055	U	1024-57-3	Heptachlor Epoxide	0.0055	U
60-57-1	Dieldrin	0.0011	U	72-43-5	Methoxychlor	0.0055	U
959-98-8	Endosulfan I	0.0055	U	72-54-8	p,p'-DDD	0.0027	U
33213-65-9	Endosulfan II	0.0055	U	72-55-9	p,p'-DDE	0.0027	U
1031-07-8	Endosulfan Sulfate	0.0055	U	50-29-3	p,p'-DDT	0.0027	U
72-20-8	Endrin	0.0055	U	8001-35-2	Toxaphene	0.027	U

Worksheet #: 320028

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4092919 0041

Data Path : G:\Gcdata\2014\GC_6\Data\10-02-14\
Data File : 6G52379.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Oct 2014 6:16
Operator : MLC/KD/ZM
Sample : AC81144-001
Misc : S,PEST
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Oct 03 09:59:41 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0918.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Tue Sep 23 09:21:14 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	4.908	5.144	953763	1079244	60.755m	55.807m
22)DCB-Surrogate	12.048	12.978	589247	651596	45.058m	49.440m

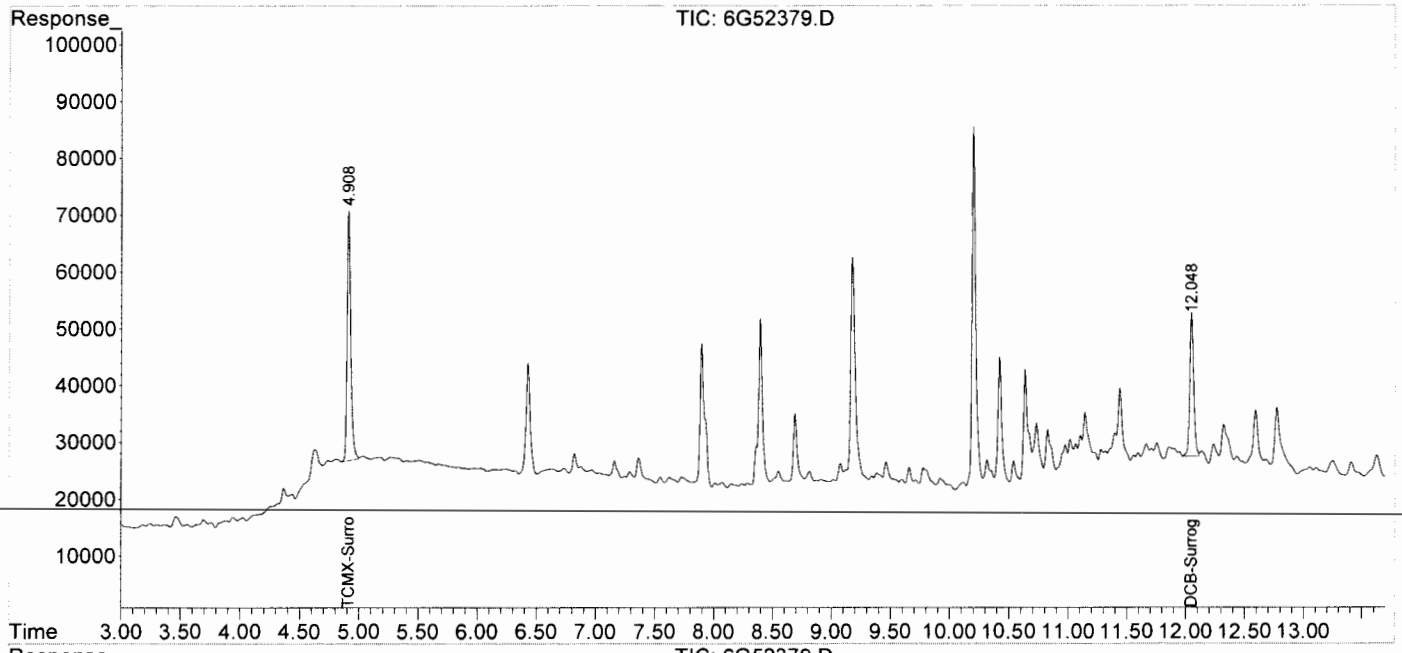
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

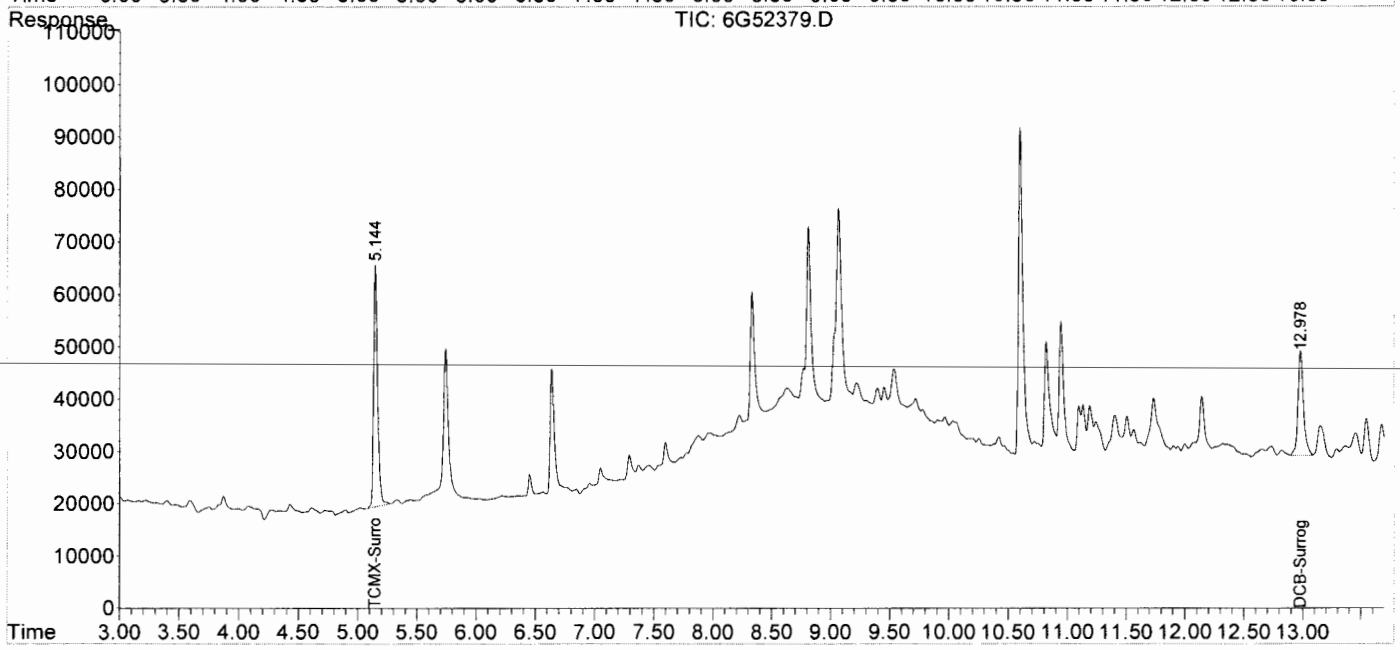
mlc

Data Path : G:\Gcdata\2014\GC_6\Data\10-02-14\
Data File : 6G52379.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Oct 2014 6:16
Operator : MLC/KD/ZM
Sample : AC81144-001
Misc : S,PEST
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Oct 03 09:59:41 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0918.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Tue Sep 23 09:21:14 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





HamptonClarke-Veritech Laboratories
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

HC·V HamptonClarke Veritech WBE/DBE/SBE 800.426.9992

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NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

4092919

Page _____ of _____

4092919 0043

Customer Information

a) Customer: LIRO ENGINEERS INC.
Address: 690 DELAWARE AVE. BUFFALO NY 14209
1b) Email/Cell/Fax/Ph: FRANKS@LIRO.COM
1c) Send Invoice to: SAME.
1d) Send Report to: STEVE FRANK

Project Information

2a) Project: SOUTH BRONX FAMILY RESIDENCE-SAMARITAN VILLAGE
2b) Project Mgr: STEVE FRANK
2c) Project Location (City/State): 110 EAST 145TH ST. BRONX NY.
2d) Quote/PO # (If Applicable): —

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
1 Business Day (100%)	Data Summary	Hazsite/CSV
2 Business Days (75%)	~~Results + QC~~ (Waste)	EnviroData
3 Business Days (50%)	NJ Reduced	Excel - NJ Regulatory
4 Business Days (35%)	NY Reduced	Excel - NY Regulatory
1 Week (25%)	PA Reduced	Excel - PA Regulatory
10 Calendar Days (10%)	Full / Category B	EQuIS (specify below):
2 Weeks	Category A	4-File/EZ/NYS/Reg. 2 or 5
Other: AS PER CONTRACT.		Other: PDF.

Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓

Batch # A081144

Check If Contingent ===>

Matrix Codes
DW - Drinking Water, S - Soil, A - Air, GW - Ground Water, SL - Sludge, WW - Waste Water, OL - Oil, OT - Other (please specify under item 9, Comments)

7) Analysis Request <=== Check If Contingent

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Composite (C)	Grab (G)	TCL/TAL	CP-51 LIST VOCs	8) # of Bottles None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
-001	MW-03-3'-4'	S	9/29	10:00		✓	✓	✓									(1) 16 OZ JAR
-002	MW-03-(1'-1.5'	S	9/29	10:00		✓	✓	✓									(1) 4 OZ JAR

10) Relinquished by:	Accepted by:	Date	Time
V. ORTIZ 9/29/14		9/29/14	1335
		9/29/14	1710

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Note: Check if low-level groundwater methods required to meet current standards:
- [ ] BN or BNA (8270C SIM)
- [ ] VOC (8260B SIM or 8011)

Note: Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project

Cooler Temperature: 2.8c

11) Sampler (print name): VLADIMIR ORTIZ Date: 9-29-2014.

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

CONDITION UPON RECEIPT

Batch Number AC81144

Entered By: cbaum
Date Entered 9/29/2014 6:19:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	Yes	Please specify the Temperature inside the container (in degC) 2.8C
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify
14	NA	Corrective actions (Specify item number and corrective action taken).

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M16296.D
Analysis Date: 10/02/14 08:52
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	75-00-3	Chloroethane	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	67-66-3	Chloroform	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
95-63-6	1,2,4-Trimethylbenzene	0.0010	U	75-71-8	Dichlorodifluoromethane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
106-93-4	1,2-Dibromoethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	136777612	m&p-Xylenes	0.0010	U
107-06-2	1,2-Dichloroethane	0.0010	U	79-20-9	Methyl Acetate	0.0020	U
78-87-5	1,2-Dichloropropane	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
108-67-8	1,3,5-Trimethylbenzene	0.0010	U	75-09-2	Methylene Chloride	0.0020	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	91-20-3	Naphthalene	0.0010	U
123-91-1	1,4-Dioxane	0.10	U	104-51-8	n-Butylbenzene	0.0010	U
78-93-3	2-Butanone	0.0020	U	103-65-1	n-Propylbenzene	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
99-87-6	4-Isopropyltoluene	0.0010	U	135-98-8	sec-Butylbenzene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	98-06-6	t-Butylbenzene	0.0010	U
71-43-2	Benzene	0.0010	U	127-18-4	Tetrachloroethene	0.0020	U
74-97-5	Bromochloromethane	0.0020	U	108-88-3	Toluene	0.0010	U
75-27-4	Bromodichloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-25-2	Bromoform	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
74-83-9	Bromomethane	0.0020	U	79-01-6	Trichloroethene	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
56-23-5	Carbon Tetrachloride	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U

Worksheet #: 320311

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT/LSC Reviewed)

4092919 0046

SampleID : DAILY BLANK
Data File: 6M16296.D
Acq On : 10/ 2/14 08:52

Operator : SG
Sam Mult : 1 Vial# : 8
Misc : S,5g

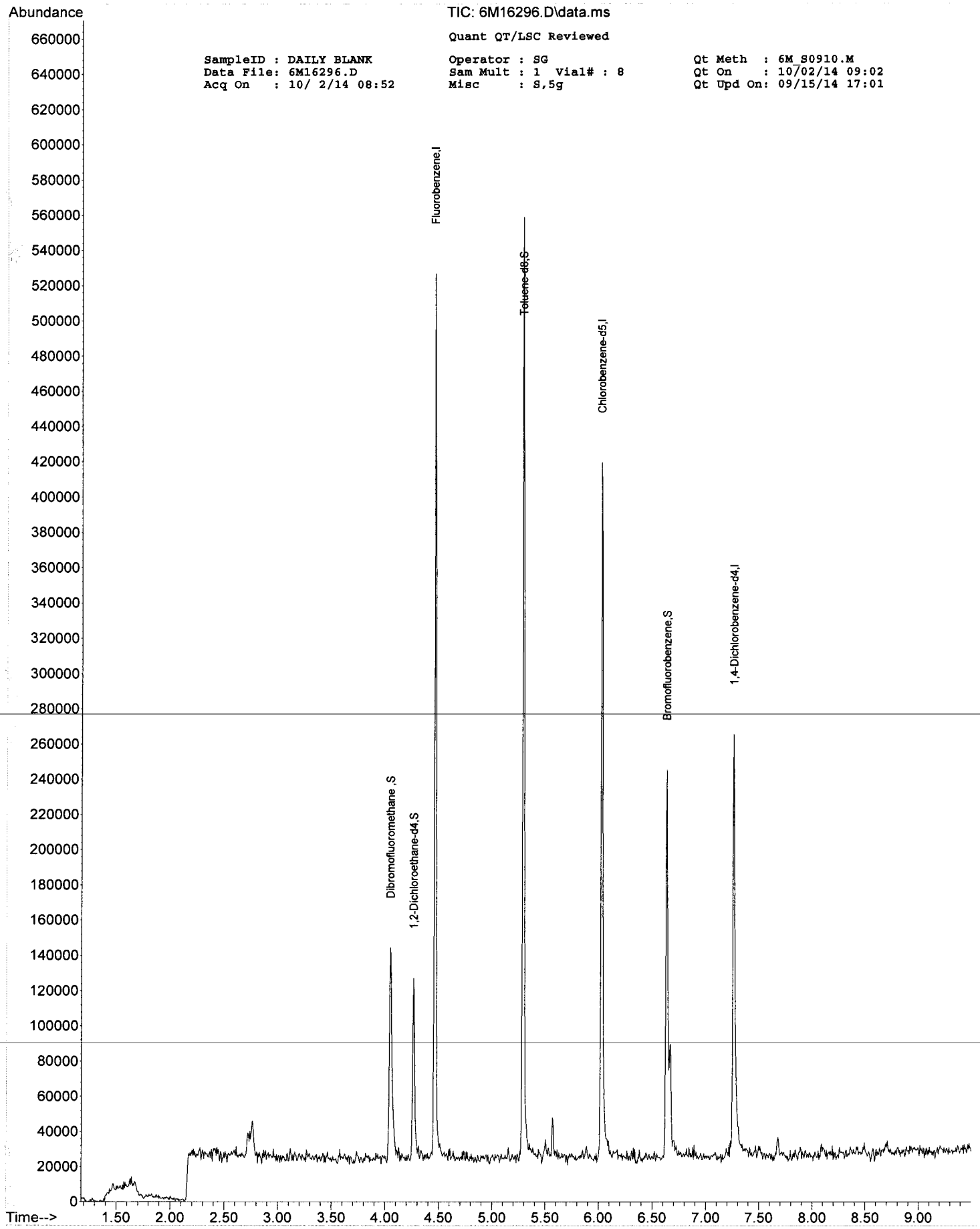
Qt Meth : 6M_S0910.M
Qt On : 10/02/14 09:02
Qt Upd On: 09/15/14 17:01

Data Path : G:\GcMsData\2014\GCMS_6\Data\10-02-14\
Qt Path : G:\GcMsData\2014\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
4) Fluorobenzene	4.463	96	258670	30.00 ug/l	0.00
52) Chlorobenzene-d5	6.026	117	152804	30.00 ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.258	152	61523	30.00 ug/l	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	4.048	111	67570	36.25 ug/l	0.00
Spiked Amount 30.000			Recovery	= 120.83%	
39) 1,2-Dichloroethane-d4	4.264	67	26690	29.54 ug/l	0.00
Spiked Amount 30.000			Recovery	= 98.47%	
66) Toluene-d8	5.292	98	220632	25.46 ug/l	0.00
Spiked Amount 30.000			Recovery	= 84.87%	
76) Bromofluorobenzene	6.633	174	51091	33.14 ug/l	0.00
Spiked Amount 30.000			Recovery	= 110.47%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M16296.D\data.ms
Quant QT/LSC Reviewed
SampleID : DAILY BLANK
Data File: 6M16296.D
Acq On : 10/ 2/14 08:52
Operator : SG
Sam Mult : 1 Vial# : 8
Misc : S,5g
Qt Meth : 6M_S0910.M
Qt On : 10/02/14 09:02
Qt Upd On: 09/15/14 17:01
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M24600.D
Analysis Date: 10/07/14 11:08
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Methanol
Extraction Ratio: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.10	U	108-90-7	Chlorobenzene	0.10	U
79-34-5	1,1,2,2-Tetrachloroethane	0.10	U	75-00-3	Chloroethane	0.10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.10	U	67-66-3	Chloroform	0.10	U
79-00-5	1,1,2-Trichloroethane	0.10	U	74-87-3	Chloromethane	0.10	U
75-34-3	1,1-Dichloroethane	0.10	U	156-59-2	cis-1,2-Dichloroethene	0.10	U
75-35-4	1,1-Dichloroethene	0.10	U	10061-01-5	cis-1,3-Dichloropropene	0.10	U
87-61-6	1,2,3-Trichlorobenzene	0.10	U	110-82-7	Cyclohexane	0.10	U
120-82-1	1,2,4-Trichlorobenzene	0.10	U	124-48-1	Dibromochloromethane	0.10	U
95-63-6	1,2,4-Trimethylbenzene	0.10	U	75-71-8	Dichlorodifluoromethane	0.10	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.10	U	100-41-4	Ethylbenzene	0.10	U
106-93-4	1,2-Dibromoethane	0.10	U	98-82-8	Isopropylbenzene	0.10	U
95-50-1	1,2-Dichlorobenzene	0.10	U	136777612	m&p-Xylenes	0.10	U
107-06-2	1,2-Dichloroethane	0.050	U	79-20-9	Methyl Acetate	0.10	U
78-87-5	1,2-Dichloropropane	0.10	U	108-87-2	Methylcyclohexane	0.10	U
108-67-8	1,3,5-Trimethylbenzene	0.10	U	75-09-2	Methylene Chloride	0.10	U
541-73-1	1,3-Dichlorobenzene	0.10	U	1634-04-4	Methyl-t-butyl ether	0.050	U
106-46-7	1,4-Dichlorobenzene	0.10	U	91-20-3	Naphthalene	0.10	U
123-91-1	1,4-Dioxane	5.0	U	104-51-8	n-Butylbenzene	0.10	U
78-93-3	2-Butanone	0.10	U	103-65-1	n-Propylbenzene	0.10	U
591-78-6	2-Hexanone	0.10	U	95-47-6	o-Xylene	0.10	U
99-87-6	4-Isopropyltoluene	0.10	U	135-98-8	sec-Butylbenzene	0.10	U
108-10-1	4-Methyl-2-Pentanone	0.10	U	100-42-5	Styrene	0.10	U
67-64-1	Acetone	0.50	U	98-06-6	t-Butylbenzene	0.10	U
71-43-2	Benzene	0.050	U	127-18-4	Tetrachloroethene	0.10	U
74-97-5	Bromochloromethane	0.10	U	108-88-3	Toluene	0.10	U
75-27-4	Bromodichloromethane	0.10	U	156-60-5	trans-1,2-Dichloroethene	0.10	U
75-25-2	Bromoform	0.10	U	10061-02-6	trans-1,3-Dichloropropene	0.10	U
74-83-9	Bromomethane	0.10	U	79-01-6	Trichloroethene	0.10	U
75-15-0	Carbon Disulfide	0.10	U	75-69-4	Trichlorofluoromethane	0.10	U
56-23-5	Carbon Tetrachloride	0.10	U	75-01-4	Vinyl Chloride	0.10	U

Worksheet #: 320311

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT/LSC Reviewed)

4092919 0049

SampleID : DAILY BLANK
Data File: 2M24600.D
Acq On : 10/ 7/14 11:08

Operator : SG
Sam Mult : 1 Vial# : 9
Misc : M,MEOH

Qt Meth : 2M_A1002.M
Qt On : 10/07/14 11:46
Qt Upd On: 10/02/14 16:48

Data Path : G:\GcMsData\2014\GCMS_2\Data\10-07-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.636	96	221608	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.469	117	158612	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.899	152	72610	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.198	111	66842	30.54	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.80%			
39) 1,2-Dichloroethane-d4	4.426	67	46880	33.11	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.37%			
66) Toluene-d8	5.598	98	225220	33.07	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.23%			
76) Bromofluorobenzene	7.172	174	71227	30.46	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.53%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

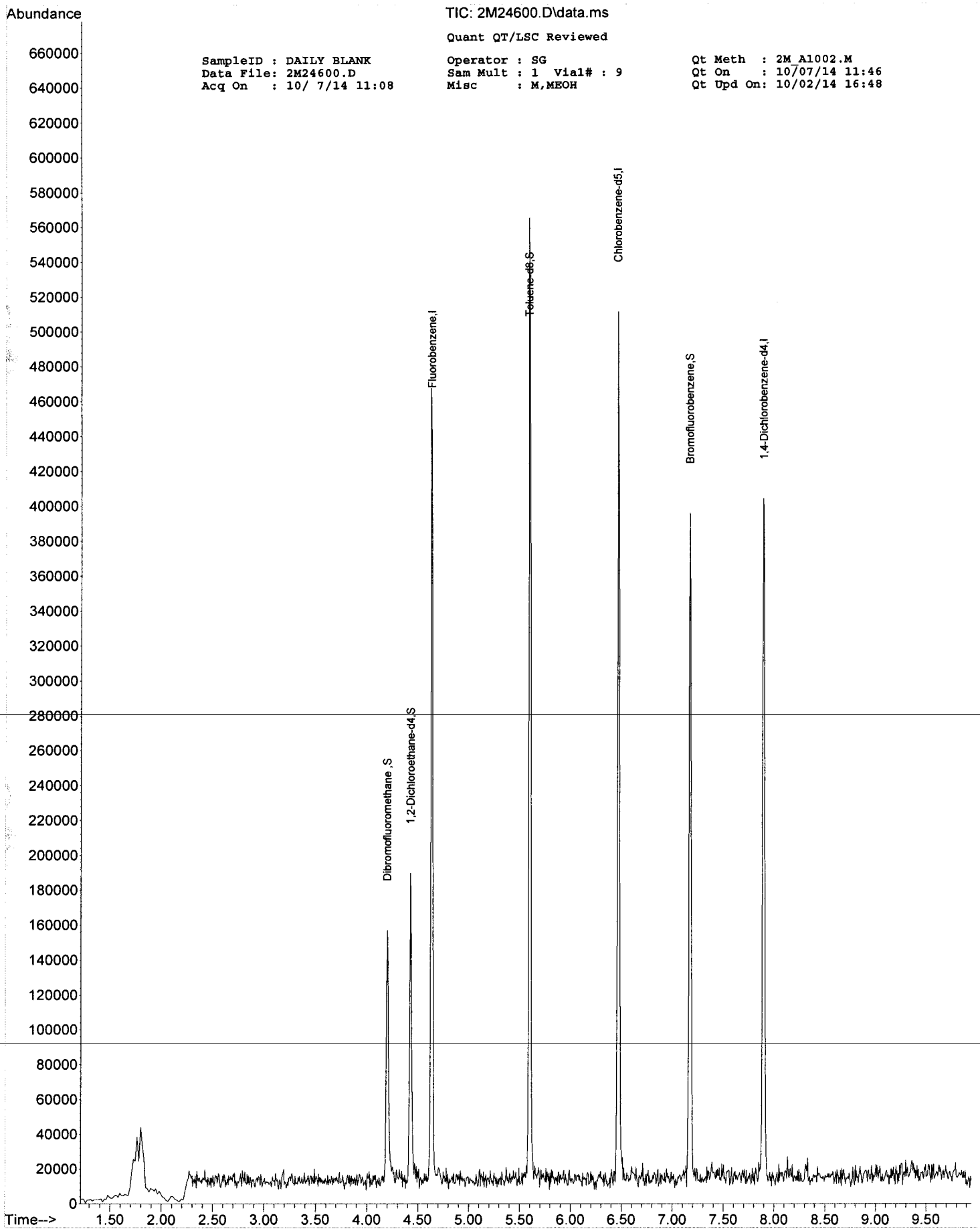
TIC: 2M24600.D\data.ms

Quant QT/LSC Reviewed

SampleID : DAILY BLANK
Data File: 2M24600.D
Acq On : 10/ 7/14 11:08

Operator : SG
Sam Mult : 1 Vial# : 9
Misc : M,MEOH

Qt Meth : 2M_A1002.M
Qt On : 10/07/14 11:46
Qt Upd On: 10/02/14 16:48



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB35290
Client Id:
Data File: 7M67420.D
Analysis Date: 10/03/14 16:34
Date Rec/Extracted: NA-10/03/14
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	207-08-9	Benzo[k]fluoranthene	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.0083	U
120-83-2	2,4-Dichlorophenol	0.0083	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.0083	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.033	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0083	U
95-48-7	2-Methylphenol	0.0083	U	84-66-2	Diethylphthalate	0.033	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.017	U
106-44-5	3&4-Methylphenol	0.0083	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.033	U
106-47-8	4-Chloroaniline	0.016	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0083	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.0083	U
98-86-2	Acetophenone	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.033	U
120-12-7	Anthracene	0.033	U	87-86-5	Pentachlorophenol	0.17	U
1912-24-9	Atrazine	0.033	U	85-01-8	Phenanthrene	0.033	U
100-52-7	Benzaldehyde	0.033	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U
50-32-8	Benzo[a]pyrene	0.033	U				

Worksheet #: 320133

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Quantitation Report (QT Reviewed)

4092919 0052

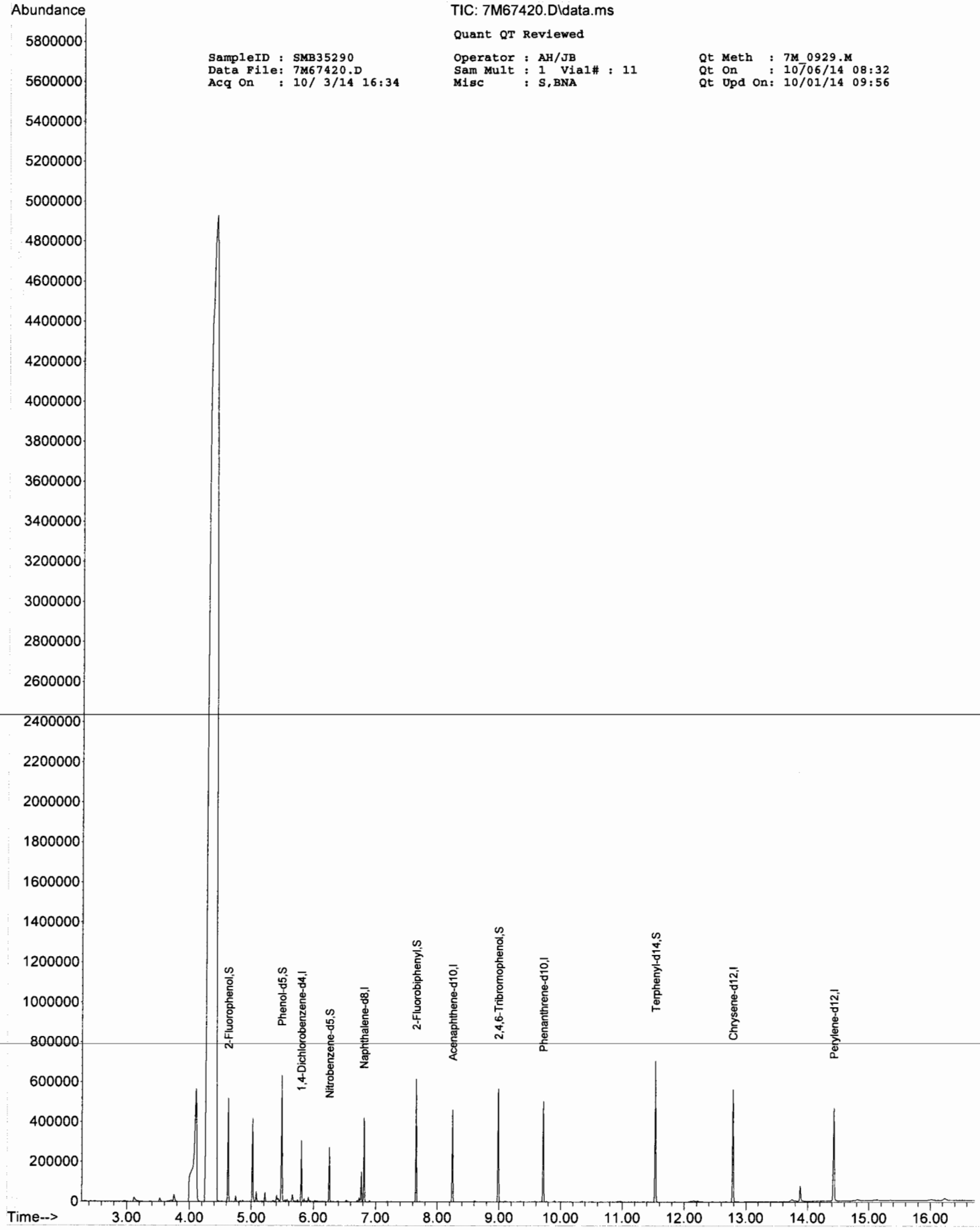
SampleID : SMB35290 Operator : AH/JB Qt Meth : 7M_0929.M
Data File: 7M67420.D Sam Mult : 1 Vial# : 11 Qt On : 10/06/14 08:32
Acq On : 10/ 3/14 16:34 Misc : S,BNA Qt Upd On: 10/01/14 09:56

Data Path : G:\GcMsData\2014\GCMS_7\Data\10-0314\
Qt Path : G:\GCMSDATA\2014\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
7) 1,4-Dichlorobenzene-d4	5.802	152	36886	40.00 ng	0.00
29) Naphthalene-d8	6.812	136	149931	40.00 ng	-0.02
47) Acenaphthene-d10	8.249	164	91891	40.00 ng	-0.01
74) Phenanthrene-d10	9.718	188	182346	40.00 ng	-0.01
88) Chrysene-d12	12.785	240	215842	40.00 ng	-0.02
100) Perylene-d12	14.430	264	206737	40.00 ng	0.00
System Monitoring Compounds					
10) 2-Fluorophenol	4.627	112	110533	96.85 ng	0.03
Spiked Amount 100.000			Recovery = 96.85%		
15) Phenol-d5	5.487	99	168398	100.67 ng	0.00
Spiked Amount 100.000			Recovery = 100.67%		
30) Nitrobenzene-d5	6.256	128	29409	47.52 ng	0.00
Spiked Amount 50.000			Recovery = 95.04%		
52) 2-Fluorobiphenyl	7.656	172	144661	47.77 ng	-0.01
Spiked Amount 50.000			Recovery = 95.54%		
77) 2,4,6-Tribromophenol	8.992	330	66328	108.18 ng	-0.01
Spiked Amount 100.000			Recovery = 108.18%		
91) Terphenyl-d14	11.535	244	189074	60.01 ng	-0.01
Spiked Amount 50.000			Recovery = 120.02%		
Target Compounds					Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

lw


Abundance
TIC: 7M67420.D\data.ms
Quant QT Reviewed
SampleID : SMB35290
Data File: 7M67420.D
Acq On : 10/ 3/14 16:34
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : S,BNA
Qt Meth : 7M_0929.M
Qt On : 10/06/14 08:32
Qt Upd On: 10/01/14 09:56
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS PCB REPORT

Sample Number: SMB35107
Client Id:
Data File: 2G94462.D
Analysis Date: 10/01/14 22:28
Date Rec/Extracted: NA-10/01/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.025	U	11097-69-1	Aroclor-1254	0.025	U
11104-28-2	Aroclor-1221	0.025	U	11096-82-5	Aroclor-1260	0.025	U
11141-16-5	Aroclor-1232	0.025	U	37324-23-5	Aroclor-1262	0.025	U
53469-21-9	Aroclor-1242	0.025	U	11100-14-4	Aroclor-1268	0.025	U
12672-29-6	Aroclor-1248	0.025	U				

Worksheet #: 319921

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4092919 0055

Data Path : G:\Gcdata\2014\GC_2\Data\10-01-14\
Data File : 2G94462.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 1 Oct 2014 22:28
Operator : KD/MLC
Sample : SMB35107
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Oct 02 09:43:05 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0918.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Sep 19 09:35:43 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

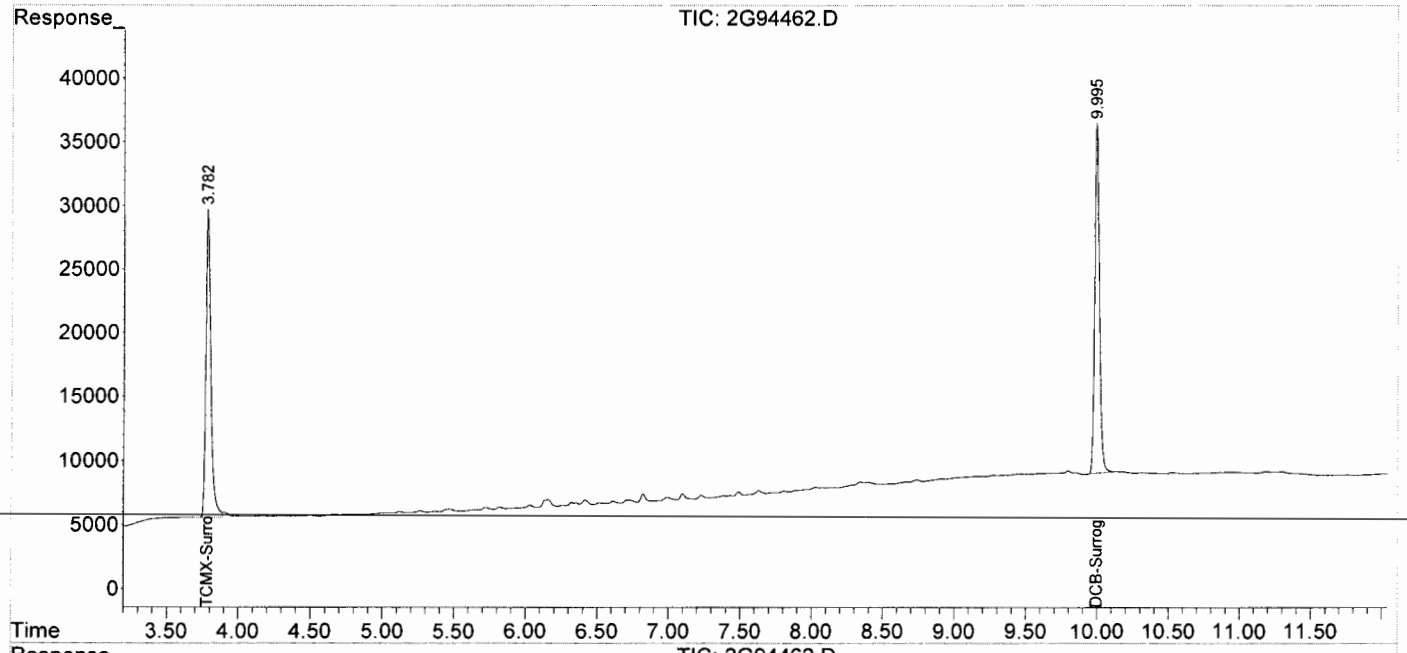
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.782	4.035	580777	272907	85.563m	91.056m
45)DCB-Surrogate	9.996	11.039	629652	304307	87.500	103.287

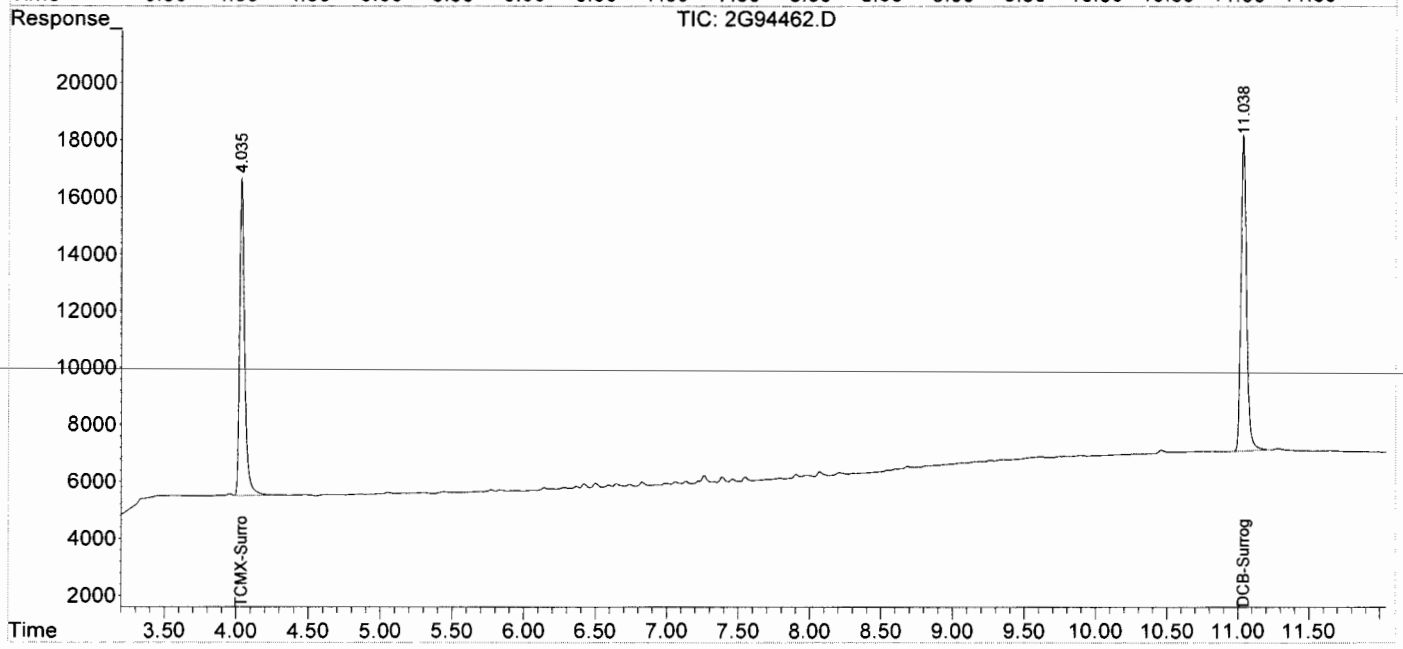
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_2\Data\10-01-14\
Data File : 2G94462.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 1 Oct 2014 22:28
Operator : KD/MLC
Sample : SMB35107
Misc : S,PCB
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E
Integration File signal 2: AUTOINT2.E
Quant Time: Oct 02 09:43:05 2014
Quant Method : G:\GCDATA\2014\GC_2\METHODQT\2G_C0918.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Sep 19 09:35:43 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Form1

ORGANICS PESTICIDE REPORT

Sample Number: SMB35106
Client Id:
Data File: 6G52365.D
Analysis Date: 10/02/14 02:11
Date Rec/Extracted: NA-10/01/14
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
309-00-2	Aldrin	0.0050	U	7421-93-4	Endrin Aldehyde	0.0050	U
319-84-6	alpha-BHC	0.0010	U	53494-70-5	Endrin Ketone	0.0050	U
319-85-7	beta-BHC	0.0010	U	58-89-9	gamma-BHC	0.0010	U
57-74-9	Chlordane	0.025	U	76-44-8	Heptachlor	0.0050	U
319-86-8	delta-BHC	0.0050	U	1024-57-3	Heptachlor Epoxide	0.0050	U
60-57-1	Dieldrin	0.0010	U	72-43-5	Methoxychlor	0.0050	U
959-98-8	Endosulfan I	0.0050	U	72-54-8	p,p'-DDD	0.0025	U
33213-65-9	Endosulfan II	0.0050	U	72-55-9	p,p'-DDE	0.0025	U
1031-07-8	Endosulfan Sulfate	0.0050	U	50-29-3	p,p'-DDT	0.0025	U
72-20-8	Endrin	0.0050	U	8001-35-2	Toxaphene	0.025	U

Worksheet #: 320028

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4092919 0058

Data Path : G:\Gcdata\2014\GC_6\Data\10-02-14\
Data File : 6G52365.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Oct 2014 2:11
Operator : MLC/KD/ZM
Sample : SMB35106
Misc : S,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Oct 02 11:14:55 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0918.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Tue Sep 23 09:21:14 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32

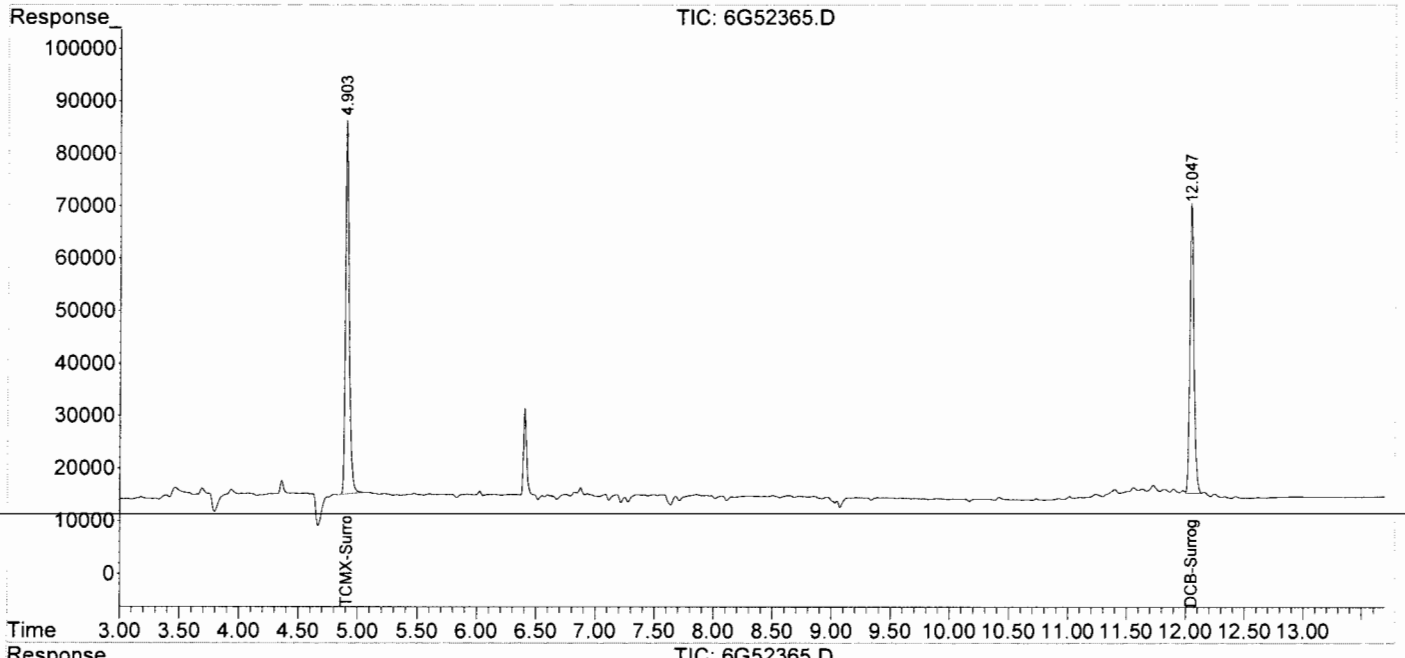
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	4.903	5.140	1547680	1887203	99.904m	98.928m
22)DCB-Surrogate	12.047	12.977	1335408	1344765	105.468m	104.076

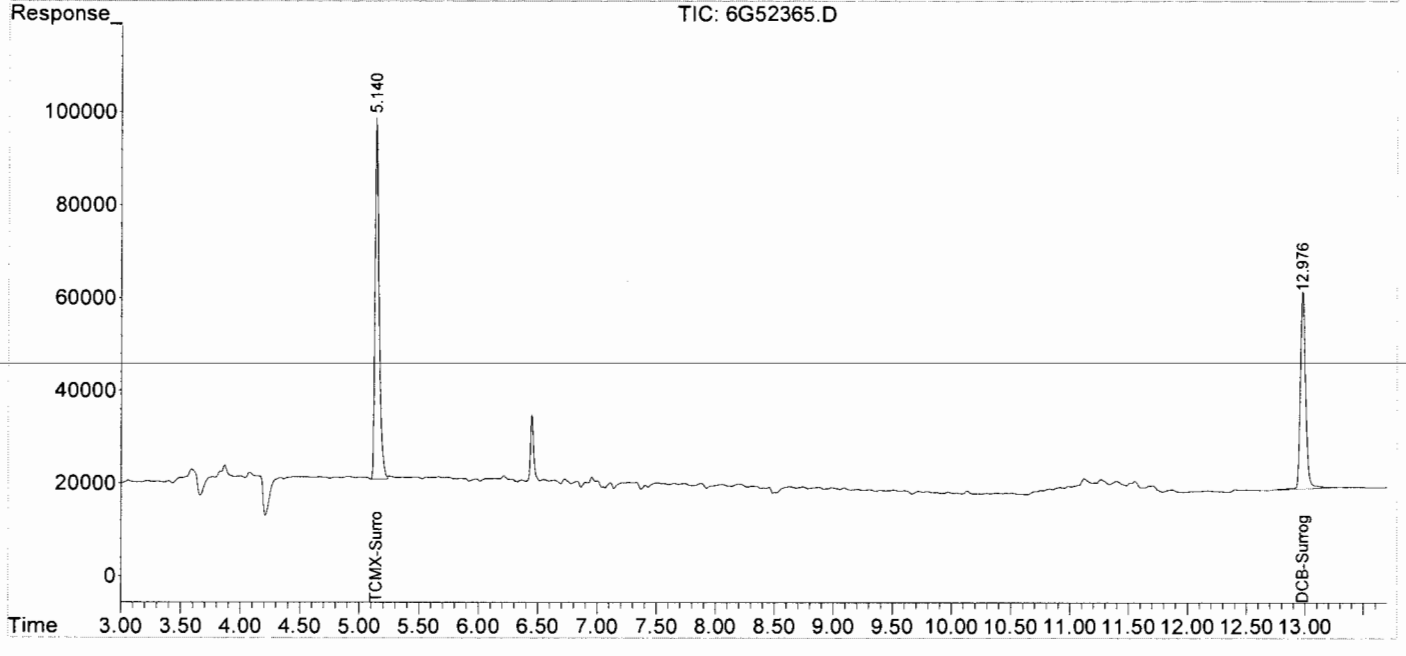
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2014\GC_6\Data\10-02-14\
Data File : 6G52365.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 2 Oct 2014 2:11
Operator : MLC/KD/ZM
Sample : SMB35106
Misc : S,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PEST1.E
Integration File signal 2: Pest2.e
Quant Time: Oct 02 11:14:55 2014
Quant Method : G:\GCDATA\2014\GC_6\METHODQT\6G_P0918.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Tue Sep 23 09:21:14 2014
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701 Signal #2 Phase: db-608
Signal #1 Info : .32 Signal #2 Info : .32





FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/02/14
Data File: S16900A3
Prep Batch: 37413
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICP3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4092919

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-195040-9	CCB V-195040-22	CCB V-195040-35	CCB V-195040-48	CCB V-195040-58	MB 37413 (100)-12		
Antimony	.04 U	.04 U	.04 U	.04 U	.04 U	4 U		
Arsenic	.04 U	.04 U	.04 U	.04 U	.04 U	4 U		
Barium	.1 U	.1 U	.1 U	.1 U	.1 U	10 U		
Beryllium	.012 U	.012 U	.012 U	.012 U	.012 U	1.2 U		
Cadmium	.012 U	.012 U	.012 U	.012 U	.012 U	1.2 U		
Chromium	.05 U	.05 U	.05 U	.05 U	.05 U	5 U		
Cobalt	.025 U	.025 U	.025 U	.025 U	.025 U	2.5 U		
Copper	.05 U	.05 U	.05 U	.05 U	.05 U	5 U		
Lead	.05 U	.05 U	.05 U	.05 U	.05 U	5 U		
Nickel	.05 U	.05 U	.05 U	.05 U	.05 U	5 U		
Selenium	.03 U	.03 U	.03 U	.03 U	.03 U	3 U		
Silver	.015 U	.015 U	.015 U	.015 U	.015 U	1.5 U		
Thallium	.015 U	.015 U	.015 U	.015 U	.015 U	1.5 U		
Vanadium	.1 U	.1 U	.1 U	.1 U	.1 U	10 U		
Zinc	.1 U	.1 U	.1 U	.1 U	.1 U	10 U		

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/02/14
Data File: S16900B
Prep Batch: 37413
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: PEICPRAD1A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4092919

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-195040-8	CCB-21	CCB-33	MB 37413 (100)-11				
Aluminum	2 U	2 U	2 U	200 U				
Calcium	10 U	10 U	10 U	1000 U				
Iron	2 U	2 U	2 U	200 U				
Magnesium	5 U	5 U	5 U	500 U				
Manganese	.1 U	.1 U	.1 U	10 U				
Potassium	5 U	5 U	5 U	500 U				
Sodium	2.5 U	2.5 U	2.5 U	250 U				

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/02/14
Data File: S100214A
Prep Batch: 37412
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4092919

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-195666-10	CCB V-195666-15	CCB V-195666-28	CCB V-195666-40	CCB V-195666-46	MB 37412-16		
Antimony	4 U	4 U	4 U	4 U	4 U	800 U		
Beryllium	1 U	1 U	1 U	1 U	1 U	200 U		
Cadmium	2 U	2 U	2 U	2 U	2 U	400 U		
Selenium	10 U	10 U	10 U	10 U	10 U	2000 U		
Silver	1 U	1 U	1 U	1 U	1 U	200 U		

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/02/14
Data File: H16900S
Prep Batch: 37413
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV1A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4092919

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-22	CCB-34	MB 37413 (167)-11				
Mercury	.5 U	.5 U	.5 U	83 U				

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 10/02/14
Data File: H16900SB
Prep Batch: 37413
Reporting Limits Used: 6010B/6010C/7470A,7471A/7471B(Hg),6020/6020A
Instrument: HGCV1A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 4092919

Lab Name: Veritech
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-17						
Mercury	.5 U	.5 U						

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

Hampton-Clarke
Analytical & Field Services

Last Page of Report

APPENDIX 6

LABORATORY DATA DELIVERABLES FOR SOIL VAPOR ANALYTICAL DATA

Included on Attached CD

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-001
Client Sample ID: 149ST-SV-2-SS

Sample Information:
Type : Air

Origin:

Collected : 10/13/2014 11:22:00 AM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
1,1,1-Trichloroethane	< 120	ppbv	D	600	< 655	µg/m³	10/30/2014 3:32 PM
1,1,2,2-Tetrachloroethane	< 120	ppbv	D	600	< 824	µg/m³	10/30/2014 3:32 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 120	ppbv	D	600	< 920	µg/m³	10/30/2014 3:32 PM
1,1,2-Trichloroethane	< 120	ppbv	D	600	< 655	µg/m³	10/30/2014 3:32 PM
1,1-Dichloroethane	< 120	ppbv	D	600	< 486	µg/m³	10/30/2014 3:32 PM
1,1-Dichloroethene	< 120	ppbv	D	600	< 476	µg/m³	10/30/2014 3:32 PM
1,2,4-Trichlorobenzene	< 120	ppbv	D	600	< 890	µg/m³	10/30/2014 3:32 PM
1,2,4-Trimethylbenzene	29,700	ppbv	D	1200	146000	µg/m³	10/30/2014 5:17 PM
1,2-Dibromoethane	< 120	ppbv	D	600	< 922	µg/m³	10/30/2014 3:32 PM
1,2-Dichlorobenzene	< 120	ppbv	D	600	< 721	µg/m³	10/30/2014 3:32 PM
1,2-Dichloroethane	1,480	ppbv	D	600	6000	µg/m³	10/30/2014 3:32 PM
1,2-Dichloroethene (cis)	< 120	ppbv	D	600	< 476	µg/m³	10/30/2014 3:32 PM
1,2-Dichloroethene (trans)	< 120	ppbv	D	600	< 476	µg/m³	10/30/2014 3:32 PM
1,2-Dichloropropane	< 120	ppbv	D	600	< 555	µg/m³	10/30/2014 3:32 PM
1,2-Dichlorotetrafluoroethane	< 120	ppbv	D	600	< 839	µg/m³	10/30/2014 3:32 PM
1,3,5-Trimethylbenzene	18,500	ppbv	D	600	91100	µg/m³	10/30/2014 3:32 PM
1,3-Dichlorobenzene	< 120	ppbv	D	600	< 721	µg/m³	10/30/2014 3:32 PM
1,3-Dichloropropene (cis)	< 120	ppbv	D	600	< 545	µg/m³	10/30/2014 3:32 PM
1,3-Dichloropropene (trans)	< 120	ppbv	D	600	< 545	µg/m³	10/30/2014 3:32 PM
1,3-Hexachlorobutadiene	< 120	ppbv	D	600	< 1280	µg/m³	10/30/2014 3:32 PM
1,4-Dichlorobenzene	< 120	ppbv	D	600	< 721	µg/m³	10/30/2014 3:32 PM
Acetone	< 120	ppbv	D	600	< 285	µg/m³	10/30/2014 3:32 PM
Benzene	6,080	ppbv	D	600	19400	µg/m³	10/30/2014 3:32 PM
Bromodichloromethane	< 120	ppbv	D	600	< 804	µg/m³	10/30/2014 3:32 PM
Bromoform	< 120	ppbv	D	600	< 1240	µg/m³	10/30/2014 3:32 PM
Bromomethane	< 120	ppbv	D	600	< 466	µg/m³	10/30/2014 3:32 PM
Carbon disulfide	< 120	ppbv	D	600	< 374	µg/m³	10/30/2014 3:32 PM
Carbon tetrachloride	< 120	ppbv	D	600	< 755	µg/m³	10/30/2014 3:32 PM
Chlorobenzene	< 120	ppbv	D	600	< 552	µg/m³	10/30/2014 3:32 PM
Chloroethane	< 120	ppbv	D	600	< 317	µg/m³	10/30/2014 3:32 PM
Chloroform	< 120	ppbv	D	600	< 586	µg/m³	10/30/2014 3:32 PM
Chloromethane	< 120	ppbv	D	600	< 248	µg/m³	10/30/2014 3:32 PM
Dibromochloromethane	< 120	ppbv	D	600	< 1020	µg/m³	10/30/2014 3:32 PM
Dichlorodifluoromethane	< 120	ppbv	D	600	< 593	µg/m³	10/30/2014 3:32 PM
Ethylbenzene	20,200	ppbv	D	600	87900	µg/m³	10/30/2014 3:32 PM

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Date Reported : 10/30/2014

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

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Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-001
Client Sample ID: 149ST-SV-2-SS

Sample Information:
Type : Air

Origin:

Collected : 10/13/2014 11:22:00 AM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
Isopropanol	< 300	ppbv	D	600	< 737	µg/m³	10/30/2014 3:32 PM
Methyl butyl ketone	< 120	ppbv	D +	600	< 492	µg/m³	10/30/2014 3:32 PM
Methyl ethyl ketone	< 120	ppbv	D	600	< 354	µg/m³	10/30/2014 3:32 PM
Methyl isobutyl ketone	< 120	ppbv	D	600	< 492	µg/m³	10/30/2014 3:32 PM
Methyl tert-butyl ether	< 120	ppbv	D	600	< 433	µg/m³	10/30/2014 3:32 PM
Methylene chloride	< 120	ppbv	D	600	< 466	µg/m³	10/30/2014 3:32 PM
Styrene	< 120	ppbv	D	600	< 511	µg/m³	10/30/2014 3:32 PM
Tetrachloroethene	< 120	ppbv	D	600	< 814	µg/m³	10/30/2014 3:32 PM
Toluene	1,750	ppbv	D	600	6580	µg/m³	10/30/2014 3:32 PM
Trichloroethene	< 120	ppbv	D	600	< 645	µg/m³	10/30/2014 3:32 PM
Trichlorofluoromethane	< 120	ppbv	D	600	< 674	µg/m³	10/30/2014 3:32 PM
Vinyl acetate	< 120	ppbv	D	600	< 423	µg/m³	10/30/2014 3:32 PM
Vinyl chloride	< 120	ppbv	D	600	< 307	µg/m³	10/30/2014 3:32 PM
Xylenes (m&p)	23,600	ppbv	D	600	103000	µg/m³	10/30/2014 3:32 PM
Xylenes (o)	492	ppbv	D	600	2140	µg/m³	10/30/2014 3:32 PM
Surr: 4-Bromofluorobenzene	183	%REC	DS Limit	70-130	No M.W. Data		10/30/2014 3:32 PM

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Project Manager

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Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-002
Client Sample ID: 149ST-SV-4-SS

Sample Information:
Type : Air

Origin:

Collected : 10/13/2014 12:25:00 PM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
1,1,1-Trichloroethane	< 1.00	ppbv	D	5	< 5.46	µg/m³	10/28/2014 8:43 AM
1,1,2,2-Tetrachloroethane	< 1.00	ppbv	D	5	< 6.87	µg/m³	10/28/2014 8:43 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 1.00	ppbv	D	5	< 7.66	µg/m³	10/28/2014 8:43 AM
1,1,2-Trichloroethane	< 1.00	ppbv	D	5	< 5.46	µg/m³	10/28/2014 8:43 AM
1,1-Dichloroethane	< 1.00	ppbv	D	5	< 4.05	µg/m³	10/28/2014 8:43 AM
1,1-Dichloroethene	< 1.00	ppbv	D	5	< 3.96	µg/m³	10/28/2014 8:43 AM
1,2,4-Trichlorobenzene	< 1.00	ppbv	D	5	< 7.42	µg/m³	10/28/2014 8:43 AM
1,2,4-Trimethylbenzene	< 1.00	ppbv	D	5	< 4.92	µg/m³	10/28/2014 8:43 AM
1,2-Dibromoethane	< 1.00	ppbv	D	5	< 7.69	µg/m³	10/28/2014 8:43 AM
1,2-Dichlorobenzene	< 1.00	ppbv	D	5	< 6.01	µg/m³	10/28/2014 8:43 AM
1,2-Dichloroethane	< 1.00	ppbv	D	5	< 4.05	µg/m³	10/28/2014 8:43 AM
1,2-Dichloroethene (cis)	< 1.00	ppbv	D	5	< 3.96	µg/m³	10/28/2014 8:43 AM
1,2-Dichloroethene (trans)	< 1.00	ppbv	D	5	< 3.96	µg/m³	10/28/2014 8:43 AM
1,2-Dichloropropane	< 1.00	ppbv	D	5	< 4.62	µg/m³	10/28/2014 8:43 AM
1,2-Dichlorotetrafluoroethane	< 1.00	ppbv	D	5	< 6.99	µg/m³	10/28/2014 8:43 AM
1,3,5-Trimethylbenzene	< 1.00	ppbv	D	5	< 4.92	µg/m³	10/28/2014 8:43 AM
1,3-Dichlorobenzene	< 1.00	ppbv	D	5	< 6.01	µg/m³	10/28/2014 8:43 AM
1,3-Dichloropropene (cis)	< 1.00	ppbv	D	5	< 4.54	µg/m³	10/28/2014 8:43 AM
1,3-Dichloropropene (trans)	< 1.00	ppbv	D	5	< 4.54	µg/m³	10/28/2014 8:43 AM
1,3-Hexachlorobutadiene	< 1.00	ppbv	D	5	< 10.7	µg/m³	10/28/2014 8:43 AM
1,4-Dichlorobenzene	< 1.00	ppbv	D	5	< 6.01	µg/m³	10/28/2014 8:43 AM
Acetone	11.2	ppbv	D	5	26.6	µg/m³	10/28/2014 8:43 AM
Benzene	< 1.00	ppbv	D	5	< 3.19	µg/m³	10/28/2014 8:43 AM
Bromodichloromethane	< 1.00	ppbv	D	5	< 6.70	µg/m³	10/28/2014 8:43 AM
Bromoform	< 1.00	ppbv	D	5	< 10.3	µg/m³	10/28/2014 8:43 AM
Bromomethane	< 1.00	ppbv	D	5	< 3.89	µg/m³	10/28/2014 8:43 AM
Carbon disulfide	4.40	ppbv	D	5	13.7	µg/m³	10/28/2014 8:43 AM
Carbon tetrachloride	< 1.00	ppbv	D	5	< 6.29	µg/m³	10/28/2014 8:43 AM
Chlorobenzene	< 1.00	ppbv	D	5	< 4.60	µg/m³	10/28/2014 8:43 AM
Chloroethane	< 1.00	ppbv	D	5	< 2.64	µg/m³	10/28/2014 8:43 AM
Chloroform	< 1.00	ppbv	D	5	< 4.88	µg/m³	10/28/2014 8:43 AM
Chloromethane	< 1.00	ppbv	D	5	< 2.07	µg/m³	10/28/2014 8:43 AM
Dibromochloromethane	< 1.00	ppbv	D	5	< 8.52	µg/m³	10/28/2014 8:43 AM
Dichlorodifluoromethane	< 1.00	ppbv	D	5	< 4.94	µg/m³	10/28/2014 8:43 AM
Ethylbenzene	< 1.00	ppbv	D	5	< 4.34	µg/m³	10/28/2014 8:43 AM

Qualifiers: E = Value above quantitation range, Value estimated.
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H = Received/analyzed outside of analytical holding time
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Project Manager

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Date Reported : 10/30/2014

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

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Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-002
Client Sample ID: 149ST-SV-4-SS

Sample Information:
Type : Air

Origin:

Collected : 10/13/2014 12:25:00 PM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
Isopropanol	< 2.50	ppbv	D	5	< 6.14	µg/m³	10/28/2014 8:43 AM
Methyl butyl ketone	< 1.00	ppbv	D +	5	< 4.10	µg/m³	10/28/2014 8:43 AM
Methyl ethyl ketone	< 1.00	ppbv	D	5	< 2.95	µg/m³	10/28/2014 8:43 AM
Methyl isobutyl ketone	< 1.00	ppbv	D	5	< 4.10	µg/m³	10/28/2014 8:43 AM
Methyl tert-butyl ether	< 1.00	ppbv	D	5	< 3.61	µg/m³	10/28/2014 8:43 AM
Methylene chloride	1.65	ppbv	D	5	6.41	µg/m³	10/28/2014 8:43 AM
Styrene	< 1.00	ppbv	D	5	< 4.26	µg/m³	10/28/2014 8:43 AM
Tetrachloroethene	< 1.00	ppbv	D	5	< 6.78	µg/m³	10/28/2014 8:43 AM
Toluene	< 1.00	ppbv	D	5	< 3.77	µg/m³	10/28/2014 8:43 AM
Trichloroethene	< 1.00	ppbv	D	5	< 5.37	µg/m³	10/28/2014 8:43 AM
Trichlorofluoromethane	< 1.00	ppbv	D	5	< 5.62	µg/m³	10/28/2014 8:43 AM
Vinyl acetate	< 1.00	ppbv	D	5	< 3.52	µg/m³	10/28/2014 8:43 AM
Vinyl chloride	< 1.00	ppbv	D	5	< 2.56	µg/m³	10/28/2014 8:43 AM
Xylenes (m&p)	< 1.00	ppbv	D	5	< 4.34	µg/m³	10/28/2014 8:43 AM
Xylenes (o)	< 1.00	ppbv	D	5	< 4.34	µg/m³	10/28/2014 8:43 AM
Surr: 4-Bromofluorobenzene	91.1	%REC	D Limit	70-130	No M.W. Data		10/28/2014 8:43 AM

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
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Project Manager

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NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

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Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-003
Client Sample ID: 149ST-SV-6-SS

Sample Information:
Type : Air

Origin:

Collected : 10/13/2014 12:40:00 PM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
1,1,1-Trichloroethane	< 0.40	ppbv	D	2	< 2.18	µg/m³	10/28/2014 11:19 AM
1,1,2,2-Tetrachloroethane	< 0.40	ppbv	D	2	< 2.75	µg/m³	10/28/2014 11:19 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.40	ppbv	D	2	< 3.07	µg/m³	10/28/2014 11:19 AM
1,1,2-Trichloroethane	< 0.40	ppbv	D	2	< 2.18	µg/m³	10/28/2014 11:19 AM
1,1-Dichloroethane	< 0.40	ppbv	D	2	< 1.62	µg/m³	10/28/2014 11:19 AM
1,1-Dichloroethene	< 0.40	ppbv	D	2	< 1.59	µg/m³	10/28/2014 11:19 AM
1,2,4-Trichlorobenzene	< 0.40	ppbv	D	2	< 2.97	µg/m³	10/28/2014 11:19 AM
1,2,4-Trimethylbenzene	< 0.40	ppbv	D	2	< 1.97	µg/m³	10/28/2014 11:19 AM
1,2-Dibromoethane	< 0.40	ppbv	D	2	< 3.07	µg/m³	10/28/2014 11:19 AM
1,2-Dichlorobenzene	< 0.40	ppbv	D	2	< 2.40	µg/m³	10/28/2014 11:19 AM
1,2-Dichloroethane	< 0.40	ppbv	D	2	< 1.62	µg/m³	10/28/2014 11:19 AM
1,2-Dichloroethene (cis)	< 0.40	ppbv	D	2	< 1.59	µg/m³	10/28/2014 11:19 AM
1,2-Dichloroethene (trans)	< 0.40	ppbv	D	2	< 1.59	µg/m³	10/28/2014 11:19 AM
1,2-Dichloropropane	< 0.40	ppbv	D	2	< 1.85	µg/m³	10/28/2014 11:19 AM
1,2-Dichlorotetrafluoroethane	< 0.40	ppbv	D	2	< 2.80	µg/m³	10/28/2014 11:19 AM
1,3,5-Trimethylbenzene	< 0.40	ppbv	D	2	< 1.97	µg/m³	10/28/2014 11:19 AM
1,3-Dichlorobenzene	< 0.40	ppbv	D	2	< 2.40	µg/m³	10/28/2014 11:19 AM
1,3-Dichloropropene (cis)	< 0.40	ppbv	D	2	< 1.82	µg/m³	10/28/2014 11:19 AM
1,3-Dichloropropene (trans)	< 0.40	ppbv	D	2	< 1.82	µg/m³	10/28/2014 11:19 AM
1,3-Hexachlorobutadiene	< 0.40	ppbv	D	2	< 4.27	µg/m³	10/28/2014 11:19 AM
1,4-Dichlorobenzene	< 0.40	ppbv	D	2	< 2.40	µg/m³	10/28/2014 11:19 AM
Acetone	< 0.40	ppbv	D	2	< 0.95	µg/m³	10/28/2014 11:19 AM
Benzene	< 0.40	ppbv	D	2	< 1.28	µg/m³	10/28/2014 11:19 AM
Bromodichloromethane	< 0.40	ppbv	D	2	< 2.68	µg/m³	10/28/2014 11:19 AM
Bromoform	< 0.40	ppbv	D	2	< 4.13	µg/m³	10/28/2014 11:19 AM
Bromomethane	< 0.40	ppbv	D	2	< 1.55	µg/m³	10/28/2014 11:19 AM
Carbon disulfide	6.10	ppbv	D	2	19.0	µg/m³	10/28/2014 11:19 AM
Carbon tetrachloride	< 0.40	ppbv	D	2	< 2.52	µg/m³	10/28/2014 11:19 AM
Chlorobenzene	< 0.40	ppbv	D	2	< 1.84	µg/m³	10/28/2014 11:19 AM
Chloroethane	< 0.40	ppbv	D	2	< 1.06	µg/m³	10/28/2014 11:19 AM
Chloroform	2.12	ppbv	D	2	10.4	µg/m³	10/28/2014 11:19 AM
Chloromethane	< 0.40	ppbv	D	2	< 0.83	µg/m³	10/28/2014 11:19 AM
Dibromochloromethane	< 0.40	ppbv	D	2	< 3.41	µg/m³	10/28/2014 11:19 AM
Dichlorodifluoromethane	< 0.40	ppbv	D	2	< 1.98	µg/m³	10/28/2014 11:19 AM
Ethylbenzene	< 0.40	ppbv	D	2	< 1.74	µg/m³	10/28/2014 11:19 AM

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
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Project Manager

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NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

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Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-003
Client Sample ID: 149ST-SV-6-SS

Sample Information:
Type : Air

Origin:

Collected : 10/13/2014 12:40:00 PM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
Isopropanol	< 1.00	ppbv	D	2	< 2.46	µg/m³	10/28/2014 11:19 AM
Methyl butyl ketone	< 0.40	ppbv	D +	2	< 1.64	µg/m³	10/28/2014 11:19 AM
Methyl ethyl ketone	< 0.40	ppbv	D	2	< 1.18	µg/m³	10/28/2014 11:19 AM
Methyl isobutyl ketone	< 0.40	ppbv	D	2	< 1.64	µg/m³	10/28/2014 11:19 AM
Methyl tert-butyl ether	< 0.40	ppbv	D	2	< 1.44	µg/m³	10/28/2014 11:19 AM
Methylene chloride	< 0.40	ppbv	D	2	< 1.55	µg/m³	10/28/2014 11:19 AM
Styrene	< 0.40	ppbv	D	2	< 1.70	µg/m³	10/28/2014 11:19 AM
Tetrachloroethene	4.82	ppbv	D	2	32.7	µg/m³	10/28/2014 11:19 AM
Toluene	< 0.40	ppbv	D	2	< 1.51	µg/m³	10/28/2014 11:19 AM
Trichloroethene	< 0.40	ppbv	D	2	< 2.15	µg/m³	10/28/2014 11:19 AM
Trichlorofluoromethane	0.60	ppbv	D	2	3.37	µg/m³	10/28/2014 11:19 AM
Vinyl acetate	< 0.40	ppbv	D	2	< 1.41	µg/m³	10/28/2014 11:19 AM
Vinyl chloride	< 0.40	ppbv	D	2	< 1.02	µg/m³	10/28/2014 11:19 AM
Xylenes (m&p)	< 0.40	ppbv	D	2	< 1.74	µg/m³	10/28/2014 11:19 AM
Xylenes (o)	< 0.40	ppbv	D	2	< 1.74	µg/m³	10/28/2014 11:19 AM
Surr: 4-Bromofluorobenzene	92.5	%REC	D Limit	70-130	No M.W. Data		10/28/2014 11:19 AM

Qualifiers: E = Value above quantitation range, Value estimated.
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H = Received/analyzed outside of analytical holding time
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Project Manager

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NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

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Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-004
Client Sample ID: 149ST-SV-7-SS

Sample Information:
Type : Air

Origin:

Collected : 10/13/2014 1:40:00 PM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
1,1,1-Trichloroethane	< 0.40	ppbv	D	2	< 2.18	µg/m³	10/28/2014 12:43 PM
1,1,2,2-Tetrachloroethane	< 0.40	ppbv	D	2	< 2.75	µg/m³	10/28/2014 12:43 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.40	ppbv	D	2	< 3.07	µg/m³	10/28/2014 12:43 PM
1,1,2-Trichloroethane	< 0.40	ppbv	D	2	< 2.18	µg/m³	10/28/2014 12:43 PM
1,1-Dichloroethane	< 0.40	ppbv	D	2	< 1.62	µg/m³	10/28/2014 12:43 PM
1,1-Dichloroethene	< 0.40	ppbv	D	2	< 1.59	µg/m³	10/28/2014 12:43 PM
1,2,4-Trichlorobenzene	< 0.40	ppbv	D	2	< 2.97	µg/m³	10/28/2014 12:43 PM
1,2,4-Trimethylbenzene	< 0.40	ppbv	D	2	< 1.97	µg/m³	10/28/2014 12:43 PM
1,2-Dibromoethane	< 0.40	ppbv	D	2	< 3.07	µg/m³	10/28/2014 12:43 PM
1,2-Dichlorobenzene	< 0.40	ppbv	D	2	< 2.40	µg/m³	10/28/2014 12:43 PM
1,2-Dichloroethane	< 0.40	ppbv	D	2	< 1.62	µg/m³	10/28/2014 12:43 PM
1,2-Dichloroethene (cis)	< 0.40	ppbv	D	2	< 1.59	µg/m³	10/28/2014 12:43 PM
1,2-Dichloroethene (trans)	< 0.40	ppbv	D	2	< 1.59	µg/m³	10/28/2014 12:43 PM
1,2-Dichloropropane	< 0.40	ppbv	D	2	< 1.85	µg/m³	10/28/2014 12:43 PM
1,2-Dichlorotetrafluoroethane	< 0.40	ppbv	D	2	< 2.80	µg/m³	10/28/2014 12:43 PM
1,3,5-Trimethylbenzene	< 0.40	ppbv	D	2	< 1.97	µg/m³	10/28/2014 12:43 PM
1,3-Dichlorobenzene	< 0.40	ppbv	D	2	< 2.40	µg/m³	10/28/2014 12:43 PM
1,3-Dichloropropene (cis)	< 0.40	ppbv	D	2	< 1.82	µg/m³	10/28/2014 12:43 PM
1,3-Dichloropropene (trans)	< 0.40	ppbv	D	2	< 1.82	µg/m³	10/28/2014 12:43 PM
1,3-Hexachlorobutadiene	< 0.40	ppbv	D	2	< 4.27	µg/m³	10/28/2014 12:43 PM
1,4-Dichlorobenzene	< 0.40	ppbv	D	2	< 2.40	µg/m³	10/28/2014 12:43 PM
Acetone	1.32	ppbv	D	2	3.14	µg/m³	10/28/2014 12:43 PM
Benzene	< 0.40	ppbv	D	2	< 1.28	µg/m³	10/28/2014 12:43 PM
Bromodichloromethane	< 0.40	ppbv	D	2	< 2.68	µg/m³	10/28/2014 12:43 PM
Bromoform	< 0.40	ppbv	D	2	< 4.13	µg/m³	10/28/2014 12:43 PM
Bromomethane	< 0.40	ppbv	D	2	< 1.55	µg/m³	10/28/2014 12:43 PM
Carbon disulfide	1.64	ppbv	D	2	5.11	µg/m³	10/28/2014 12:43 PM
Carbon tetrachloride	< 0.40	ppbv	D	2	< 2.52	µg/m³	10/28/2014 12:43 PM
Chlorobenzene	< 0.40	ppbv	D	2	< 1.84	µg/m³	10/28/2014 12:43 PM
Chloroethane	< 0.40	ppbv	D	2	< 1.06	µg/m³	10/28/2014 12:43 PM
Chloroform	0.62	ppbv	D	2	3.03	µg/m³	10/28/2014 12:43 PM
Chloromethane	< 0.40	ppbv	D	2	< 0.83	µg/m³	10/28/2014 12:43 PM
Dibromochloromethane	< 0.40	ppbv	D	2	< 3.41	µg/m³	10/28/2014 12:43 PM
Dichlorodifluoromethane	< 0.40	ppbv	D	2	< 1.98	µg/m³	10/28/2014 12:43 PM
Ethylbenzene	< 0.40	ppbv	D	2	< 1.74	µg/m³	10/28/2014 12:43 PM

Qualifiers: E = Value above quantitation range, Value estimated.
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D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Project Manager

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Date Reported : 10/30/2014

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-004
Client Sample ID: 149ST-SV-7-SS

Sample Information:
Type : Air
Origin:

Collected : 10/13/2014 1:40:00 PM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
Isopropanol	< 1.00	ppbv	D	2	< 2.46	µg/m³	10/28/2014 12:43 PM
Methyl butyl ketone	< 0.40	ppbv	D +	2	< 1.64	µg/m³	10/28/2014 12:43 PM
Methyl ethyl ketone	< 0.40	ppbv	D	2	< 1.18	µg/m³	10/28/2014 12:43 PM
Methyl isobutyl ketone	< 0.40	ppbv	D	2	< 1.64	µg/m³	10/28/2014 12:43 PM
Methyl tert-butyl ether	< 0.40	ppbv	D	2	< 1.44	µg/m³	10/28/2014 12:43 PM
Methylene chloride	0.66	ppbv	D	2	2.56	µg/m³	10/28/2014 12:43 PM
Styrene	< 0.40	ppbv	D	2	< 1.70	µg/m³	10/28/2014 12:43 PM
Tetrachloroethene	< 0.40	ppbv	D	2	< 2.71	µg/m³	10/28/2014 12:43 PM
Toluene	< 0.40	ppbv	D	2	< 1.51	µg/m³	10/28/2014 12:43 PM
Trichloroethene	< 0.40	ppbv	D	2	< 2.15	µg/m³	10/28/2014 12:43 PM
Trichlorofluoromethane	3.06	ppbv	D	2	17.2	µg/m³	10/28/2014 12:43 PM
Vinyl acetate	< 0.40	ppbv	D	2	< 1.41	µg/m³	10/28/2014 12:43 PM
Vinyl chloride	< 0.40	ppbv	D	2	< 1.02	µg/m³	10/28/2014 12:43 PM
Xylenes (m&p)	< 0.40	ppbv	D	2	< 1.74	µg/m³	10/28/2014 12:43 PM
Xylenes (o)	< 0.40	ppbv	D	2	< 1.74	µg/m³	10/28/2014 12:43 PM
Surr: 4-Bromofluorobenzene	98.0	%REC	D Limit	70-130	No M.W. Data		10/28/2014 12:43 PM

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
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r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Project Manager

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NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

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Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-005
Client Sample ID: 149ST-SV-5-SS

Sample Information:
Type : Air

Origin:

Collected : 10/13/2014 1:10:00 PM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
1,1,1-Trichloroethane	< 0.40	ppbv	D	2	< 2.18	µg/m³	10/28/2014 2:08 PM
1,1,2,2-Tetrachloroethane	< 0.40	ppbv	D	2	< 2.75	µg/m³	10/28/2014 2:08 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.40	ppbv	D	2	< 3.07	µg/m³	10/28/2014 2:08 PM
1,1,2-Trichloroethane	< 0.40	ppbv	D	2	< 2.18	µg/m³	10/28/2014 2:08 PM
1,1-Dichloroethane	< 0.40	ppbv	D	2	< 1.62	µg/m³	10/28/2014 2:08 PM
1,1-Dichloroethene	< 0.40	ppbv	D	2	< 1.59	µg/m³	10/28/2014 2:08 PM
1,2,4-Trichlorobenzene	< 0.40	ppbv	D	2	< 2.97	µg/m³	10/28/2014 2:08 PM
1,2,4-Trimethylbenzene	< 0.40	ppbv	D	2	< 1.97	µg/m³	10/28/2014 2:08 PM
1,2-Dibromoethane	< 0.40	ppbv	D	2	< 3.07	µg/m³	10/28/2014 2:08 PM
1,2-Dichlorobenzene	< 0.40	ppbv	D	2	< 2.40	µg/m³	10/28/2014 2:08 PM
1,2-Dichloroethane	< 0.40	ppbv	D	2	< 1.62	µg/m³	10/28/2014 2:08 PM
1,2-Dichloroethene (cis)	< 0.40	ppbv	D	2	< 1.59	µg/m³	10/28/2014 2:08 PM
1,2-Dichloroethene (trans)	< 0.40	ppbv	D	2	< 1.59	µg/m³	10/28/2014 2:08 PM
1,2-Dichloropropane	< 0.40	ppbv	D	2	< 1.85	µg/m³	10/28/2014 2:08 PM
1,2-Dichlorotetrafluoroethane	< 0.40	ppbv	D	2	< 2.80	µg/m³	10/28/2014 2:08 PM
1,3,5-Trimethylbenzene	< 0.40	ppbv	D	2	< 1.97	µg/m³	10/28/2014 2:08 PM
1,3-Dichlorobenzene	< 0.40	ppbv	D	2	< 2.40	µg/m³	10/28/2014 2:08 PM
1,3-Dichloropropene (cis)	< 0.40	ppbv	D	2	< 1.82	µg/m³	10/28/2014 2:08 PM
1,3-Dichloropropene (trans)	< 0.40	ppbv	D	2	< 1.82	µg/m³	10/28/2014 2:08 PM
1,3-Hexachlorobutadiene	< 0.40	ppbv	D	2	< 4.27	µg/m³	10/28/2014 2:08 PM
1,4-Dichlorobenzene	< 0.40	ppbv	D	2	< 2.40	µg/m³	10/28/2014 2:08 PM
Acetone	0.74	ppbv	D	2	1.76	µg/m³	10/28/2014 2:08 PM
Benzene	< 0.40	ppbv	D	2	< 1.28	µg/m³	10/28/2014 2:08 PM
Bromodichloromethane	< 0.40	ppbv	D	2	< 2.68	µg/m³	10/28/2014 2:08 PM
Bromoform	< 0.40	ppbv	D	2	< 4.13	µg/m³	10/28/2014 2:08 PM
Bromomethane	< 0.40	ppbv	D	2	< 1.55	µg/m³	10/28/2014 2:08 PM
Carbon disulfide	7.32	ppbv	D	2	22.8	µg/m³	10/28/2014 2:08 PM
Carbon tetrachloride	< 0.40	ppbv	D	2	< 2.52	µg/m³	10/28/2014 2:08 PM
Chlorobenzene	< 0.40	ppbv	D	2	< 1.84	µg/m³	10/28/2014 2:08 PM
Chloroethane	< 0.40	ppbv	D	2	< 1.06	µg/m³	10/28/2014 2:08 PM
Chloroform	4.36	ppbv	D	2	21.3	µg/m³	10/28/2014 2:08 PM
Chloromethane	< 0.40	ppbv	D	2	< 0.83	µg/m³	10/28/2014 2:08 PM
Dibromochloromethane	< 0.40	ppbv	D	2	< 3.41	µg/m³	10/28/2014 2:08 PM
Dichlorodifluoromethane	< 0.40	ppbv	D	2	< 1.98	µg/m³	10/28/2014 2:08 PM
Ethylbenzene	< 0.40	ppbv	D	2	< 1.74	µg/m³	10/28/2014 2:08 PM

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Project Manager

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Date Reported : 10/30/2014

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

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Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-005
Client Sample ID: 149ST-SV-5-SS

Sample Information:
Type : Air

Origin:

Collected : 10/13/2014 1:10:00 PM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
Isopropanol	< 1.00	ppbv	D	2	< 2.46	µg/m³	10/28/2014 2:08 PM
Methyl butyl ketone	< 0.40	ppbv	D +	2	< 1.64	µg/m³	10/28/2014 2:08 PM
Methyl ethyl ketone	< 0.40	ppbv	D	2	< 1.18	µg/m³	10/28/2014 2:08 PM
Methyl isobutyl ketone	< 0.40	ppbv	D	2	< 1.64	µg/m³	10/28/2014 2:08 PM
Methyl tert-butyl ether	< 0.40	ppbv	D	2	< 1.44	µg/m³	10/28/2014 2:08 PM
Methylene chloride	0.68	ppbv	D	2	2.64	µg/m³	10/28/2014 2:08 PM
Styrene	< 0.40	ppbv	D	2	< 1.70	µg/m³	10/28/2014 2:08 PM
Tetrachloroethene	8.26	ppbv	D	2	56.0	µg/m³	10/28/2014 2:08 PM
Toluene	< 0.40	ppbv	D	2	< 1.51	µg/m³	10/28/2014 2:08 PM
Trichloroethene	< 0.40	ppbv	D	2	< 2.15	µg/m³	10/28/2014 2:08 PM
Trichlorofluoromethane	2.16	ppbv	D	2	12.1	µg/m³	10/28/2014 2:08 PM
Vinyl acetate	< 0.40	ppbv	D	2	< 1.41	µg/m³	10/28/2014 2:08 PM
Vinyl chloride	< 0.40	ppbv	D	2	< 1.02	µg/m³	10/28/2014 2:08 PM
Xylenes (m&p)	< 0.40	ppbv	D	2	< 1.74	µg/m³	10/28/2014 2:08 PM
Xylenes (o)	< 0.40	ppbv	D	2	< 1.74	µg/m³	10/28/2014 2:08 PM
Surr: 4-Bromofluorobenzene	93.0	%REC	D Limit	70-130	No M.W. Data		10/28/2014 2:08 PM

Qualifiers: E = Value above quantitation range, Value estimated.
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Project Manager

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NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

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Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-006
Client Sample ID: 149ST-SV-3-SS

Sample Information:
Type : Air

Origin:

Collected : 10/13/2014 1:05:00 PM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
1,1,1-Trichloroethane	< 120	ppbv	D	600	< 655	µg/m³	10/30/2014 2:50 PM
1,1,2,2-Tetrachloroethane	< 120	ppbv	D	600	< 824	µg/m³	10/30/2014 2:50 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 120	ppbv	D	600	< 920	µg/m³	10/30/2014 2:50 PM
1,1,2-Trichloroethane	< 120	ppbv	D	600	< 655	µg/m³	10/30/2014 2:50 PM
1,1-Dichloroethane	< 120	ppbv	D	600	< 486	µg/m³	10/30/2014 2:50 PM
1,1-Dichloroethene	< 120	ppbv	D	600	< 476	µg/m³	10/30/2014 2:50 PM
1,2,4-Trichlorobenzene	< 120	ppbv	D	600	< 890	µg/m³	10/30/2014 2:50 PM
1,2,4-Trimethylbenzene	< 120	ppbv	D	600	< 590	µg/m³	10/30/2014 2:50 PM
1,2-Dibromoethane	< 120	ppbv	D	600	< 922	µg/m³	10/30/2014 2:50 PM
1,2-Dichlorobenzene	< 120	ppbv	D	600	< 721	µg/m³	10/30/2014 2:50 PM
1,2-Dichloroethane	342	ppbv	D	600	1380	µg/m³	10/30/2014 2:50 PM
1,2-Dichloroethene (cis)	< 120	ppbv	D	600	< 476	µg/m³	10/30/2014 2:50 PM
1,2-Dichloroethene (trans)	< 120	ppbv	D	600	< 476	µg/m³	10/30/2014 2:50 PM
1,2-Dichloropropane	< 120	ppbv	D	600	< 555	µg/m³	10/30/2014 2:50 PM
1,2-Dichlorotetrafluoroethane	< 120	ppbv	D	600	< 839	µg/m³	10/30/2014 2:50 PM
1,3,5-Trimethylbenzene	< 120	ppbv	D	600	< 590	µg/m³	10/30/2014 2:50 PM
1,3-Dichlorobenzene	< 120	ppbv	D	600	< 721	µg/m³	10/30/2014 2:50 PM
1,3-Dichloropropene (cis)	< 120	ppbv	D	600	< 545	µg/m³	10/30/2014 2:50 PM
1,3-Dichloropropene (trans)	< 120	ppbv	D	600	< 545	µg/m³	10/30/2014 2:50 PM
1,3-Hexachlorobutadiene	< 120	ppbv	D	600	< 1280	µg/m³	10/30/2014 2:50 PM
1,4-Dichlorobenzene	< 120	ppbv	D	600	< 721	µg/m³	10/30/2014 2:50 PM
Acetone	< 120	ppbv	D	600	< 285	µg/m³	10/30/2014 2:50 PM
Benzene	< 120	ppbv	D	600	< 383	µg/m³	10/30/2014 2:50 PM
Bromodichloromethane	< 120	ppbv	D	600	< 804	µg/m³	10/30/2014 2:50 PM
Bromoform	< 120	ppbv	D	600	< 1240	µg/m³	10/30/2014 2:50 PM
Bromomethane	< 120	ppbv	D	600	< 466	µg/m³	10/30/2014 2:50 PM
Carbon disulfide	< 120	ppbv	D	600	< 374	µg/m³	10/30/2014 2:50 PM
Carbon tetrachloride	< 120	ppbv	D	600	< 755	µg/m³	10/30/2014 2:50 PM
Chlorobenzene	< 120	ppbv	D	600	< 552	µg/m³	10/30/2014 2:50 PM
Chloroethane	< 120	ppbv	D	600	< 317	µg/m³	10/30/2014 2:50 PM
Chloroform	< 120	ppbv	D	600	< 586	µg/m³	10/30/2014 2:50 PM
Chloromethane	< 120	ppbv	D	600	< 248	µg/m³	10/30/2014 2:50 PM
Dibromochloromethane	< 120	ppbv	D	600	< 1020	µg/m³	10/30/2014 2:50 PM
Dichlorodifluoromethane	< 120	ppbv	D	600	< 593	µg/m³	10/30/2014 2:50 PM
Ethylbenzene	< 120	ppbv	D	600	< 521	µg/m³	10/30/2014 2:50 PM

Qualifiers: E = Value above quantitation range, Value estimated.
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Project Manager

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LABORATORY RESULTS

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Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-006
Client Sample ID: 149ST-SV-3-SS

Sample Information:
Type : Air
Origin:

Collected : 10/13/2014 1:05:00 PM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
Isopropanol	< 300	ppbv	D	600	< 737	µg/m³	10/30/2014 2:50 PM
Methyl butyl ketone	< 120	ppbv	D +	600	< 492	µg/m³	10/30/2014 2:50 PM
Methyl ethyl ketone	< 120	ppbv	D	600	< 354	µg/m³	10/30/2014 2:50 PM
Methyl isobutyl ketone	< 120	ppbv	D	600	< 492	µg/m³	10/30/2014 2:50 PM
Methyl tert-butyl ether	< 120	ppbv	D	600	< 433	µg/m³	10/30/2014 2:50 PM
Methylene chloride	144	ppbv	D	600	559	µg/m³	10/30/2014 2:50 PM
Styrene	< 120	ppbv	D	600	< 511	µg/m³	10/30/2014 2:50 PM
Tetrachloroethene	< 120	ppbv	D	600	< 814	µg/m³	10/30/2014 2:50 PM
Toluene	< 120	ppbv	D	600	< 452	µg/m³	10/30/2014 2:50 PM
Trichloroethene	< 120	ppbv	D	600	< 645	µg/m³	10/30/2014 2:50 PM
Trichlorofluoromethane	< 120	ppbv	D	600	< 674	µg/m³	10/30/2014 2:50 PM
Vinyl acetate	< 120	ppbv	D	600	< 423	µg/m³	10/30/2014 2:50 PM
Vinyl chloride	< 120	ppbv	D	600	< 307	µg/m³	10/30/2014 2:50 PM
Xylenes (m&p)	< 120	ppbv	D	600	< 521	µg/m³	10/30/2014 2:50 PM
Xylenes (o)	< 120	ppbv	D	600	< 521	µg/m³	10/30/2014 2:50 PM
Surr: 4-Bromofluorobenzene	439	%REC	DES Limit	70-130	No M.W. Data		10/30/2014 2:50 PM

Qualifiers: E = Value above quantitation range, Value estimated.
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H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Project Manager

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Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-007
Client Sample ID: 149ST-SV-1-SS

Sample Information:
Type : Air

Origin:

Collected : 10/13/2014 11:02:00 AM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
1,1,1-Trichloroethane	< 0.60	ppbv	D	3	< 3.27	µg/m³	10/30/2014 4:14 PM
1,1,2,2-Tetrachloroethane	< 0.60	ppbv	D	3	< 4.12	µg/m³	10/30/2014 4:14 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.60	ppbv	D	3	< 4.60	µg/m³	10/30/2014 4:14 PM
1,1,2-Trichloroethane	< 0.60	ppbv	D	3	< 3.27	µg/m³	10/30/2014 4:14 PM
1,1-Dichloroethane	< 0.60	ppbv	D	3	< 2.43	µg/m³	10/30/2014 4:14 PM
1,1-Dichloroethene	< 0.60	ppbv	D	3	< 2.38	µg/m³	10/30/2014 4:14 PM
1,2,4-Trichlorobenzene	< 0.60	ppbv	D	3	< 4.45	µg/m³	10/30/2014 4:14 PM
1,2,4-Trimethylbenzene	0.60	ppbv	D	3	2.95	µg/m³	10/30/2014 4:14 PM
1,2-Dibromoethane	< 0.60	ppbv	D	3	< 4.61	µg/m³	10/30/2014 4:14 PM
1,2-Dichlorobenzene	< 0.60	ppbv	D	3	< 3.61	µg/m³	10/30/2014 4:14 PM
1,2-Dichloroethane	< 0.60	ppbv	D	3	< 2.43	µg/m³	10/30/2014 4:14 PM
1,2-Dichloroethene (cis)	< 0.60	ppbv	D	3	< 2.38	µg/m³	10/30/2014 4:14 PM
1,2-Dichloroethene (trans)	< 0.60	ppbv	D	3	< 2.38	µg/m³	10/30/2014 4:14 PM
1,2-Dichloropropane	< 0.60	ppbv	D	3	< 2.77	µg/m³	10/30/2014 4:14 PM
1,2-Dichlorotetrafluoroethane	< 0.60	ppbv	D	3	< 4.19	µg/m³	10/30/2014 4:14 PM
1,3,5-Trimethylbenzene	< 0.60	ppbv	D	3	< 2.95	µg/m³	10/30/2014 4:14 PM
1,3-Dichlorobenzene	< 0.60	ppbv	D	3	< 3.61	µg/m³	10/30/2014 4:14 PM
1,3-Dichloropropene (cis)	< 0.60	ppbv	D	3	< 2.72	µg/m³	10/30/2014 4:14 PM
1,3-Dichloropropene (trans)	< 0.60	ppbv	D	3	< 2.72	µg/m³	10/30/2014 4:14 PM
1,3-Hexachlorobutadiene	< 0.60	ppbv	D	3	< 6.40	µg/m³	10/30/2014 4:14 PM
1,4-Dichlorobenzene	< 0.60	ppbv	D	3	< 3.61	µg/m³	10/30/2014 4:14 PM
Acetone	< 0.60	ppbv	D	3	< 1.43	µg/m³	10/30/2014 4:14 PM
Benzene	1.17	ppbv	D	3	3.74	µg/m³	10/30/2014 4:14 PM
Bromodichloromethane	< 0.60	ppbv	D	3	< 4.02	µg/m³	10/30/2014 4:14 PM
Bromoform	< 0.60	ppbv	D	3	< 6.20	µg/m³	10/30/2014 4:14 PM
Bromomethane	< 0.60	ppbv	D	3	< 2.33	µg/m³	10/30/2014 4:14 PM
Carbon disulfide	1.53	ppbv	D	3	4.76	µg/m³	10/30/2014 4:14 PM
Carbon tetrachloride	< 0.60	ppbv	D	3	< 3.78	µg/m³	10/30/2014 4:14 PM
Chlorobenzene	< 0.60	ppbv	D	3	< 2.76	µg/m³	10/30/2014 4:14 PM
Chloroethane	< 0.60	ppbv	D	3	< 1.58	µg/m³	10/30/2014 4:14 PM
Chloroform	3.00	ppbv	D	3	14.6	µg/m³	10/30/2014 4:14 PM
Chloromethane	< 0.60	ppbv	D	3	< 1.24	µg/m³	10/30/2014 4:14 PM
Dibromochloromethane	< 0.60	ppbv	D	3	< 5.11	µg/m³	10/30/2014 4:14 PM
Dichlorodifluoromethane	< 0.60	ppbv	D	3	< 2.97	µg/m³	10/30/2014 4:14 PM
Ethylbenzene	< 0.60	ppbv	D	3	< 2.61	µg/m³	10/30/2014 4:14 PM

Qualifiers: E = Value above quantitation range, Value estimated.
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S = Recovery exceeded control limits for this analyte
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Project Manager

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LABORATORY RESULTS

Results for the samples and analytes requested

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Hampton Clark Veritech
175 US Route 46 West
Fairfield, NJ 07004
Attn To : Natasha Davis

Lab No. : 1410994-007
Client Sample ID: 149ST-SV-1-SS

Sample Information:
Type : Air

Origin:

Collected : 10/13/2014 11:02:00 AM
Received : 10/15/2014 11:30:00 AM
Collected By CLIENT

149TH STREET SOUTH BX FONILLY RES. AC81404 PROJECT#4101401

Method: ETO-15 :

Parameter(s)	Result	Units	Qualifier	D.F.	Result	Units	Date Analyzed
Isopropanol	< 1.50	ppbv	D	3	< 3.69	µg/m³	10/30/2014 4:14 PM
Methyl butyl ketone	< 0.60	ppbv	D +	3	< 2.46	µg/m³	10/30/2014 4:14 PM
Methyl ethyl ketone	< 0.60	ppbv	D	3	< 1.77	µg/m³	10/30/2014 4:14 PM
Methyl isobutyl ketone	< 0.60	ppbv	D	3	< 2.46	µg/m³	10/30/2014 4:14 PM
Methyl tert-butyl ether	< 0.60	ppbv	D	3	< 2.16	µg/m³	10/30/2014 4:14 PM
Methylene chloride	0.81	ppbv	D	3	3.15	µg/m³	10/30/2014 4:14 PM
Styrene	< 0.60	ppbv	D	3	< 2.56	µg/m³	10/30/2014 4:14 PM
Tetrachloroethene	0.81	ppbv	D	3	5.49	µg/m³	10/30/2014 4:14 PM
Toluene	< 0.60	ppbv	D	3	< 2.26	µg/m³	10/30/2014 4:14 PM
Trichloroethene	< 0.60	ppbv	D	3	< 3.22	µg/m³	10/30/2014 4:14 PM
Trichlorofluoromethane	< 0.60	ppbv	D	3	< 3.37	µg/m³	10/30/2014 4:14 PM
Vinyl acetate	< 0.60	ppbv	D	3	< 2.11	µg/m³	10/30/2014 4:14 PM
Vinyl chloride	< 0.60	ppbv	D	3	< 1.53	µg/m³	10/30/2014 4:14 PM
Xylenes (m&p)	< 0.60	ppbv	D	3	< 2.61	µg/m³	10/30/2014 4:14 PM
Xylenes (o)	< 0.60	ppbv	D	3	< 2.61	µg/m³	10/30/2014 4:14 PM
Surr: 4-Bromofluorobenzene	91.8	%REC	D Limit	70-130	No M.W. Data		10/30/2014 4:14 PM

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
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Quality Control Report

PACE ANALYTICAL

10478

Analysis: **VOCS IN AIR** **WorkOrder:** **1410994**

Method: **TO-15** **Lab Batch ID:** **R64467**

Method Blank

RunID: 64467 SeqNo 1396026 Units: ppbv

Analysis Date: 10/27/2014 7:50:00 PM Analyst: KG

Analyte	Result	Rep Limit	Rep Qual
Dichlorodifluoromethane	< 0.20	0.20	
1,2-Dichlorotetrafluoroethane	< 0.20	0.20	
Chloromethane	< 0.20	0.20	
Bromomethane	< 0.20	0.20	
Vinyl chloride	< 0.20	0.20	
Chloroethane	< 0.20	0.20	
Isopropanol	< 0.50	0.50	
Methylene chloride	< 0.20	0.20	
Acetone	< 0.20	0.20	
Carbon disulfide	< 0.20	0.20	
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.20	0.20	
1,1-Dichloroethene	< 0.20	0.20	
1,1-Dichloroethane	< 0.20	0.20	
Trichlorofluoromethane	< 0.20	0.20	
Vinyl acetate	< 0.20	0.20	
Methyl tert-butyl ether	< 0.20	0.20	
1,2-Dichloroethene (trans)	< 0.20	0.20	
1,2-Dichloroethene (cis)	< 0.20	0.20	
Methyl ethyl ketone	< 0.20	0.20	
Chloroform	< 0.20	0.20	
1,2-Dichloroethane	< 0.20	0.20	
1,1,1-Trichloroethane	< 0.20	0.20	
Carbon tetrachloride	< 0.20	0.20	
Bromodichloromethane	< 0.20	0.20	
1,2-Dichloropropane	< 0.20	0.20	
1,3-Dichloropropene (cis)	< 0.20	0.20	
Trichloroethene	< 0.20	0.20	
Benzene	< 0.20	0.20	
Dibromochloromethane	< 0.20	0.20	
1,3-Dichloropropene (trans)	< 0.20	0.20	
1,1,2-Trichloroethane	< 0.20	0.20	
Bromoform	< 0.20	0.20	
Methyl isobutyl ketone	< 0.20	0.20	
Methyl butyl ketone	< 0.20	0.20	
1,2-Dibromoethane	< 0.20	0.20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

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Quality Control Report

PACE ANALYTICAL

10478

Analysis: **VOCS IN AIR** **WorkOrder:** **1410994**

Method: **TO-15** **Lab Batch ID:** **R64467**

Method Blank

RunID: 64467 SeqNo 1396026 Units: ppbv

Analysis Date: 10/27/2014 7:50:00 PM Analyst: KG

Analyte	Result	Rep Limit	Rep Qual
Tetrachloroethene	< 0.20	0.20	
1,1,2,2-Tetrachloroethane	< 0.20	0.20	
Toluene	< 0.20	0.20	
Chlorobenzene	< 0.20	0.20	
Ethylbenzene	< 0.20	0.20	
Styrene	< 0.20	0.20	
Xylenes (m&p)	< 0.20	0.20	
Xylenes (o)	< 0.20	0.20	
1,3,5-Trimethylbenzene	< 0.20	0.20	
1,2,4-Trimethylbenzene	< 0.20	0.20	
1,3-Dichlorobenzene	< 0.20	0.20	
1,4-Dichlorobenzene	< 0.20	0.20	
1,2-Dichlorobenzene	< 0.20	0.20	
1,3-Hexachlorobutadiene	< 0.20	0.20	
1,2,4-Trichlorobenzene	< 0.20	0.20	
Surr: 4-Bromofluorobenzene	9.50	0.50	

Laboratory Control Sample (LCS/LFB)

RunID: 64467 SeqNo 1396027 Units: ppbv

Analysis Date: 10/27/2014 9:13:00 PM Analyst: KG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Dichlorodifluoromethane	10.00	9.88	98.8						70	130	
1,2-Dichlorotetrafluoroethane	10.00	9.23	92.3						70	130	
Chloromethane	10.00	12.1	121						70	130	
Bromomethane	10.00	11.0	110						70	130	
Vinyl chloride	10.00	10.2	102						70	130	
Chloroethane	10.00	11.3	113						70	130	
Isopropanol	10.00	8.97	89.7						70	130	
Methylene chloride	10.00	7.95	79.5						70	130	
Acetone	10.00	10.0	100						70	130	
Carbon disulfide	10.00	11.4	114						70	130	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.00	9.52	95.2						70	130	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
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Quality Control Report

PACE ANALYTICAL

10478

Analysis: **VOCS IN AIR** **WorkOrder:** **1410994**

Method: **TO-15** **Lab Batch ID:** **R64467**

Laboratory Control Sample (LCS/LFB)

RunID: 64467 SeqNo 1396027 Units: ppbv

Analysis Date: 10/27/2014 9:13:00 PM Analyst: KG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
1,1-Dichloroethene	10.00	10.3	103						70	130	
1,1-Dichloroethane	10.00	11.0	110						70	130	
Trichlorofluoromethane	10.00	9.08	90.8						70	130	
Vinyl acetate	10.00	11.9	119						70	130	
Methyl tert-butyl ether	10.00	9.12	91.2						70	130	
1,2-Dichloroethene (trans)	10.00	10.5	105						70	130	
1,2-Dichloroethene (cis)	10.00	10.2	102						70	130	
Methyl ethyl ketone	10.00	9.78	97.8						70	130	
Chloroform	10.00	9.92	99.2						70	130	
1,2-Dichloroethane	10.00	9.66	96.6						70	130	
1,1,1-Trichloroethane	10.00	10.5	105						70	130	
Carbon tetrachloride	10.00	10.3	103						70	130	
Bromodichloromethane	10.00	10.6	106						70	130	
1,2-Dichloropropane	10.00	12.0	120						70	130	
1,3-Dichloropropene (cis)	10.00	11.9	119						70	130	
Trichloroethene	10.00	10.4	104						70	130	
Benzene	10.00	12.2	122						70	130	
Dibromochloromethane	10.00	9.38	93.8						70	130	
1,3-Dichloropropene (trans)	10.00	11.4	114						70	130	
1,1,2-Trichloroethane	10.00	10.3	103						70	130	
Bromoform	10.00	8.04	80.4						70	130	
Methyl isobutyl ketone	10.00	9.57	95.7						70	130	
Methyl butyl ketone	10.00	9.22	92.2						70	130	
1,2-Dibromoethane	10.00	10.5	105						70	130	
Tetrachloroethene	10.00	9.73	97.3						70	130	
1,1,2,2-Tetrachloroethane	10.00	10.9	109						70	130	
Toluene	10.00	12.0	120						70	130	
Chlorobenzene	10.00	11.2	112						70	130	
Ethylbenzene	10.00	11.2	112						70	130	
Styrene	10.00	10.2	102						70	130	
Xylenes (m&p)	20.00	21.3	106						70	130	
Xylenes (o)	10.00	10.9	109						70	130	
1,3,5-Trimethylbenzene	10.00	10.9	109						70	130	
1,2,4-Trimethylbenzene	10.00	10.9	109						70	130	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

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TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: **VOCS IN AIR** **WorkOrder:** **1410994**

Method: **TO-15** **Lab Batch ID:** **R64467**

Laboratory Control Sample (LCS/LFB)

RunID: 64467 SeqNo 1396027 Units: ppbv

Analysis Date: 10/27/2014 9:13:00 PM Analyst: KG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
1,3-Dichlorobenzene	10.00	10.9	109						70	130	
1,4-Dichlorobenzene	10.00	11.2	112						70	130	
1,2-Dichlorobenzene	10.00	11.4	114						70	130	
1,3-Hexachlorobutadiene	10.00	12.1	121						70	130	
1,2,4-Trichlorobenzene	10.00	10.9	109						70	130	
Surr: 4-Bromofluorobenzene	10.00	10.1	101						70	130	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
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Quality Control Report

PACE ANALYTICAL

10478

Analysis: **VOCS IN AIR** **WorkOrder:** **1410994**

Method: **TO-15** **Lab Batch ID:** **R64564**

Method Blank

RunID: 64564 SeqNo 1398535 Units: ppbv

Analysis Date: 10/30/2014 12:03:00 PM Analyst: KG

Analyte	Result	Rep Limit	Rep Qual
Dichlorodifluoromethane	< 0.20	0.20	
1,2-Dichlorotetrafluoroethane	< 0.20	0.20	
Chloromethane	< 0.20	0.20	
Bromomethane	< 0.20	0.20	
Vinyl chloride	< 0.20	0.20	
Chloroethane	< 0.20	0.20	
Isopropanol	< 0.50	0.50	
Methylene chloride	0.24	0.20	
Acetone	< 0.20	0.20	
Carbon disulfide	< 0.20	0.20	
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.20	0.20	
1,1-Dichloroethene	< 0.20	0.20	
1,1-Dichloroethane	< 0.20	0.20	
Trichlorofluoromethane	< 0.20	0.20	
Vinyl acetate	< 0.20	0.20	
Methyl tert-butyl ether	< 0.20	0.20	
1,2-Dichloroethene (trans)	< 0.20	0.20	
1,2-Dichloroethene (cis)	< 0.20	0.20	
Methyl ethyl ketone	< 0.20	0.20	
Chloroform	< 0.20	0.20	
1,2-Dichloroethane	< 0.20	0.20	
1,1,1-Trichloroethane	< 0.20	0.20	
Carbon tetrachloride	< 0.20	0.20	
Bromodichloromethane	< 0.20	0.20	
1,2-Dichloropropane	< 0.20	0.20	
1,3-Dichloropropene (cis)	< 0.20	0.20	
Trichloroethene	< 0.20	0.20	
Benzene	< 0.20	0.20	
Dibromochloromethane	< 0.20	0.20	
1,3-Dichloropropene (trans)	< 0.20	0.20	
1,1,2-Trichloroethane	< 0.20	0.20	
Bromoform	< 0.20	0.20	
Methyl isobutyl ketone	< 0.20	0.20	
Methyl butyl ketone	< 0.20	0.20	
1,2-Dibromoethane	< 0.20	0.20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: **VOCS IN AIR** **WorkOrder:** **1410994**

Method: **TO-15** **Lab Batch ID:** **R64564**

Method Blank

RunID: 64564 SeqNo 1398535 Units: ppbv

Analysis Date: 10/30/2014 12:03:00 PM Analyst: KG

Analyte	Result	Rep Limit	Rep Qual
Tetrachloroethene	< 0.20	0.20	
1,1,2,2-Tetrachloroethane	< 0.20	0.20	
Toluene	< 0.20	0.20	
Chlorobenzene	< 0.20	0.20	
Ethylbenzene	< 0.20	0.20	
Styrene	< 0.20	0.20	
Xylenes (m&p)	< 0.20	0.20	
Xylenes (o)	< 0.20	0.20	
1,3,5-Trimethylbenzene	< 0.20	0.20	
1,2,4-Trimethylbenzene	< 0.20	0.20	
1,3-Dichlorobenzene	< 0.20	0.20	
1,4-Dichlorobenzene	< 0.20	0.20	
1,2-Dichlorobenzene	< 0.20	0.20	
1,3-Hexachlorobutadiene	< 0.20	0.20	
1,2,4-Trichlorobenzene	< 0.20	0.20	
Surr: 4-Bromofluorobenzene	8.97	0.50	

Laboratory Control Sample (LCS/LFB)

RunID: 64564 SeqNo 1398536 Units: ppbv

Analysis Date: 10/30/2014 1:27:00 PM Analyst: KG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Dichlorodifluoromethane	10.00	10.4	104						70	130	
1,2-Dichlorotetrafluoroethane	10.00	9.42	94.2						70	130	
Chloromethane	10.00	11.7	117						70	130	
Bromomethane	10.00	11.2	112						70	130	
Vinyl chloride	10.00	10.5	105						70	130	
Chloroethane	10.00	11.7	117						70	130	
Isopropanol	10.00	8.75	87.5						70	130	
Methylene chloride	10.00	7.94	79.4						70	130	B
Acetone	10.00	8.87	88.7						70	130	
Carbon disulfide	10.00	11.9	119						70	130	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.00	10.1	101						70	130	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: **VOCS IN AIR** **WorkOrder:** **1410994**

Method: **TO-15** **Lab Batch ID:** **R64564**

Laboratory Control Sample (LCS/LFB)

RunID: 64564 SeqNo 1398536 Units: ppbv

Analysis Date: 10/30/2014 1:27:00 PM Analyst: KG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
1,1-Dichloroethene	10.00	10.9	109						70	130	
1,1-Dichloroethane	10.00	11.0	110						70	130	
Trichlorofluoromethane	10.00	9.73	97.3						70	130	
Vinyl acetate	10.00	10.5	105						70	130	
Methyl tert-butyl ether	10.00	7.67	76.7						70	130	
1,2-Dichloroethene (trans)	10.00	11.1	111						70	130	
1,2-Dichloroethene (cis)	10.00	10.5	105						70	130	
Methyl ethyl ketone	10.00	7.07	70.7						70	130	
Chloroform	10.00	9.67	96.7						70	130	
1,2-Dichloroethane	10.00	9.32	93.2						70	130	
1,1,1-Trichloroethane	10.00	9.92	99.2						70	130	
Carbon tetrachloride	10.00	9.79	97.9						70	130	
Bromodichloromethane	10.00	9.55	95.5						70	130	
1,2-Dichloropropane	10.00	10.8	108						70	130	
1,3-Dichloropropene (cis)	10.00	10.9	109						70	130	
Trichloroethene	10.00	9.95	99.5						70	130	
Benzene	10.00	11.5	115						70	130	
Dibromochloromethane	10.00	8.52	85.2						70	130	
1,3-Dichloropropene (trans)	10.00	10.1	101						70	130	
1,1,2-Trichloroethane	10.00	9.10	91.0						70	130	
Bromoform	10.00	7.07	70.7						70	130	
Methyl isobutyl ketone	10.00	8.81	88.1						70	130	
Methyl butyl ketone	10.00	9.16	91.6						70	130	
1,2-Dibromoethane	10.00	10.4	104						70	130	
Tetrachloroethene	10.00	9.72	97.2						70	130	
1,1,2,2-Tetrachloroethane	10.00	9.31	93.1						70	130	
Toluene	10.00	11.6	116						70	130	
Chlorobenzene	10.00	11.3	113						70	130	
Ethylbenzene	10.00	10.5	105						70	130	
Styrene	10.00	9.34	93.4						70	130	
Xylenes (m&p)	20.00	19.4	97.2						70	130	
Xylenes (o)	10.00	9.81	98.1						70	130	
1,3,5-Trimethylbenzene	10.00	8.95	89.5						70	130	
1,2,4-Trimethylbenzene	10.00	8.73	87.3						70	130	

Qualifiers:

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D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

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Quality Control Report

PACE ANALYTICAL

10478

Analysis: **VOCS IN AIR** **WorkOrder:** **1410994**

Method: **TO-15** **Lab Batch ID:** **R64564**

Laboratory Control Sample (LCS/LFB)

RunID: 64564 SeqNo 1398536 Units: ppbv

Analysis Date: 10/30/2014 1:27:00 PM Analyst: KG

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
1,3-Dichlorobenzene	10.00	9.89	98.9						70	130	
1,4-Dichlorobenzene	10.00	10.3	103						70	130	
1,2-Dichlorobenzene	10.00	10.2	102						70	130	
1,3-Hexachlorobutadiene	10.00	11.1	111						70	130	
1,2,4-Trichlorobenzene	10.00	9.17	91.7						70	130	
Surr: 4-Bromofluorobenzene	10.00	9.54	95.4						70	130	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name **HCV**

Date and Time Received: **10/15/2014 11:30:00 AM**

Work Order Number: **1410994** RcptNo: **1**

Received by: **Jamie Spero**

Completed by:

Reviewed by:

Completed Date: 10/15/2014 11:36:35 AM

Reviewed Date: 10/16/2014 2:13:30 PM

Carrier name: Client

Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Are matrices correctly identified on Chain of custody?	Yes ☑	No ☐		
Is it clear what analyses were requested?	Yes ☑	No ☐		
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present	☑
Samples in proper container/bottle?	Yes ☑	No ☐		
Were correct preservatives used and noted?	Yes ☑	No ☐	NA	☐
Preservative added to bottles:				
Sample Condition?	Intact ☑	Broken ☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
Were container labels complete (ID, Pres, Date)?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Was an attempt made to cool the samples?	Yes ☑	No ☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes ☑	No ☐	NA	☐
Response when temperature is outside of range:				
Sample Temp. taken and recorded upon receipt?	Yes ☐	No ☑	To	°
Water - Were bubbles absent in VOC vials?	Yes ☐	No ☐	No Vials	☑
Water - Was there Chlorine Present?	Yes ☐	No ☐	NA	☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	No Water	☑
Are Samples considered acceptable?	Yes ☑	No ☐		
Custody Seals present?	Yes ☐	No ☑		
Airbill or Sticker?	Air Bill ☐	Sticker ☐	Not Present	☑
Airbill No:				

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1410994

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350