REMEDIAL INVESTIGATION REPORT

Former NuHart
Plastic Manufacturing Site

280 Franklin Street
Brooklyn, New York

NYSDEC Hazardous Waste Site: 224136

July 30, 2015

ESI File: SB09110

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I Paul H. Ciminello certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved Work Plan and any DER-approved modifications.

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1.0 INTRODUCTION

1.1 Purpose

This Remedial Investigation Report (RIR) summarizes environmental investigation services performed by Ecosystems Strategies, Inc. (ESI) at the Former NuHart Plastic Manufacturing Site, located at 280 Franklin Street, Brooklyn, New York (the "Site").

The investigative work was performed to document the extent of known contamination resulting from former manufacturing and industrial uses of the property. All investigations were conducted consistent with the NYSDEC approved Remedial Investigation Work Plan (RIWP, November 2011), directives from NYSDEC to conduct additional groundwater investigation, Supplemental Remedial Investigation Work Plan (SRIWP, July 2013), NYSDEC-approved Scope of Work for installation of monitoring wells at the adjoining Greenpoint Playground to the west (June 2014) and TCE Delineation Work Plan (TCEWP, September 2014), collectively referenced in this report as the "Work Plan". Any variations from the approved Work Plan are described in Section 3.1.8. This RIR summarizes data from previous environmental investigations performed by ESI and other environmental investigators (see Section 2.3), details fieldwork methodologies and sample collection procedures employed during implementation of the Work Plan (remedial investigation [RI]), documents laboratory analysis of samples collected in all media (soil, vapor and groundwater), and provides conclusions and recommendations based on the fieldwork and analytical data.

1.2 Limitations

This written analysis is an assessment of the Former NuHart Plastic Manufacturing Site located at 280 Franklin Street in Brooklyn, New York and is not relevant to any other property. It is a representation of those portions of the property analyzed as of the respective dates of the fieldwork.

Services summarized in this RIR were performed in accordance with the approved Work Plan and in general conformance with NYSDEC Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10), dated May 2010. Unless specifically noted, the findings and conclusions contained herein must be considered not as scientific certainties, but as probabilities based on professional judgment.

1.3 Objectives

ESI conducted an environmental investigation at the Site in order to:

- Characterize on-site and off-site soil and groundwater quality. Soil and groundwater samples directly related to the Site were analyzed for target compound list (TCL) volatile organic compounds (VOCs) plus tentatively identified compounds (TICS), semi-volatile organic compounds (SVOCs) plus TICS and Target Analyte List (TAL) metals in accordance with the Work Plan.
- Determine the impacts from historical site uses and the nature and extent of contamination in soil, groundwater and soil vapor.
- Obtain information sufficient to determine an appropriate remedial action.

2.0 SITE DESCRIPTION

2.1 Site Location and Description

The approximately 1-acre Site is identified on the city tax map as Block No. 2487, Lots No. 1, 10, 12, 72 and 78 (the dimensions of the Site are approximately 240 feet by 200 feet). The Site is comprised of the western portion of a vacant industrial building complex (the former NuHart Plastic Manufacturing facility) located in the Greenpoint section of Brooklyn, Kings County, New York. A Site Location Map, indicating the IHWDS boundary, is provided as Figure 1, Appendix A.

The Site is entirely covered by a complex of industrial buildings of various heights and dimensions. Historic maps indicate that the buildings were constructed at different times and agglomerated into the current "complex". As a result, many interior walls have footings and subgrade utility networks, representing constraints to current investigative efforts and, likely, future remedial work.

The Site is bordered immediately to the north by commercial/industrial buildings across Clay Street, to the east by remaining portions of the NuHart building, to the south by multi-family residential structures across Dupont Street and to the west by a New York City Park (Newtown Barge Playground) across Franklin Street. Residential buildings are located immediately east of the NuHart facility. Figure 2 (Appendix A) illustrates area-wide land uses in the vicinity of the Site.

Former industrial operations at the Site have impacted on-site and off-site soil and groundwater through releases of phthalates and lubricating oil from holding tanks and piping networks. Phthalates and a phthalate/oil mixture are present as widespread light non-aqueous phase liquid (LNAPL) impacting soil and floating on the groundwater. Dissolved groundwater contamination is generally limited to phthalates and localized impacts from a former release of chlorinated solvents.

The Site entered the New York State Inactive Hazardous Waste Disposal Site (IHWDS) Remedial Program (also known as the State Superfund Program) in July 2010 and is identified as Site No. 224136.

A NYSDEC spill event (file No. 0601852) has been reported for the NuHart property based on a release of petroleum from former underground storage tanks (USTs); the spill area, however, is located east of the Site at the northeastern portion of the building and is the subject of a separate remedial action. Data generated during the spill investigation has been incorporated into this RIR as appropriate, in order to document environmental conditions outside the Site boundaries.

2.2 Physical Setting

2.2.1 Site Topography

Information on the subject property's topography was obtained from the review of the United States Geological Survey (USGS) Topographic Map of the Brooklyn, New York Quadrangle and from observations made during the RI. The property is located in a relatively level urban area, which generally has surface elevations ranging from 10 to 15 feet above mean sea level (msl), with overall gentle downward slopes to the west-northwest, toward the confluence of the nearby East River and Newtown Creek. The Site is located within an industrial building, with a concrete floor at an elevation

generally matching grade level along Dupont and Clay Streets (eastern portion of building) and above grade level at Franklin Street (western portion of building).

2.2.2 Site Geology

U.S. Geological Survey reports describe the subsurface sequence in the general vicinity of the Site as unconsolidated fill overlying salt-marsh deposits and alluvium, typically underlain by till and ground moraine of the Upper Glacial Aquifer.

Subsurface soils exposed in mechanical borings extended during the RI to approximately 20 feet below surface grade (bsg) were noted to generally consist of fine to coarse, brown and gray sands, with variable proportions of gravel, silt and clay. Likely fill materials were noted beneath the building slab throughout the Site. Sandy silt, sandy and silty clay, and clay were noted in deeper saturated intervals at several locations. A single boring (3SB-6) extended to document soil conditions from 20 to 30 feet bsg contained a dense, continuous layer of gray to red silty clay. No bedrock was encountered in any boring.

Geotechnical borings were extended on- and off-site by Soil Mechanics Drilling Corp. in November and December 2014 (outside the scope of the Work Plan), in support of future development activities. Borings documented a general subsurface sequence of sandy fill located beneath the building slab, poorly-graded sands and silty sands extending into the saturated zone, and underlying layers of low-plasticity clays and silts (the clay layers were not observed at the western edge of the Site). Hard crystalline bedrock (gneiss) was encountered at depths of approximately 50 to 60 feet bsg.

A geological cross-section of the Site is presented on Figure 4, Appendix A. Soil boring methodology and observations are described in Section 3.3, soil boring logs from the RI and a copy of the geotechnical Boring Plan are presented in Appendix C, and driller's monitoring well construction logs are provided in Appendix D.

2.2.3 Site Subsurface Hydrogeology

Monthly well gauging data from September 2012 through March 2015 indicate that groundwater depth ranges from approximately 7 to 12 feet below grade (in the immediate vicinity of the well), with minimum groundwater depths generally recorded during the winter. Saturated soils observed during the extension of borings and the installation of monitoring wells generally consist of poorly-graded, variable texture sands with some silt and gravel.

Groundwater flow at the Site (as measured at 7 of 35 wells in March 2014) is in an overall westerly direction, towards the East River (located approximately 450 feet west of the property), and is somewhat tidally influenced west of the Site. Groundwater flow and tidal influences are discussed in Section 3.4.3.

2.3 History of Site and Previous Environmental Investigations

ESI has reviewed previous environmental reports issued by Advanced Site Restoration, LLC (ASR), including an Underground Tank Closure Report dated July 2006 (ASR TCR), a Phase II Site Assessment dated March 2007 (ASR Phase II) and several groundwater gauging and sampling reports (November and December 2007, August 2008 and March 2009 (ASR Groundwater Reports). Copies of these reports are provided in Appendix E.

The ASR Phase II summarizes the findings of previous environmental site assessment reports for the NuHart facility issued by RTP Environmental Associates Inc. (Preliminary Phase I Site Assessment) and FPM Group (Phase I Environmental Site Assessment). Commercial uses of the property prior to 1950 included manufacturing (metalworking, light fixtures, soap and water proofing materials); after 1950 the building complex was primarily used for the production, storage, and shipping of plastic and vinyl products by several tenants (the last tenant ceased operation in 2004). These reports identified the presence of USTs containing plasticizers, lubricating oil, chemicals and fuel oil.

The ASR TCR documented the in-place closure of seventeen USTs and associated sub-grade pipe trenches. A total of 8 tanks containing plasticizers (phthalates) and 4 tanks containing "Super Hecla" oil (a heavy-weight machine lubricant) were located at the Site, and 5 tanks (3 fuel oil tanks and 2 chemical tanks [methyl tert-butyl ketone and acetone]) were located east of the Site at the northeastern corner of the Building.

The ASR Phase II documents a soil and groundwater investigation beneath the NuHart building and at nearby public sidewalks. Petroleum contamination was found in the vicinity of former fuel oil tanks at the northeastern portion of the building (NYSDEC spill site) and phthalate impacts were found at the western portion of the building complex (the Site). Observations and laboratory findings presented in the report, which apply to the Site, are discussed below.

- Liquid phthalates were observed as LNAPL in groundwater wells, and elevated levels of phthalates were detected in soil and groundwater samples. LNAPL was found in monitoring and recovery wells throughout the Site and beneath adjoining sidewalk areas.
- A total of 46 soil samples from 37 Site sampling locations were submitted for laboratory analysis of semi-volatile organic compounds (SVOCs) and volatile organic compounds (VOCs). Total phthalate compounds were detected above 1,000 parts per million (ppm) in 6 samples (generally from deep soil near the groundwater interface), between 100 and 1,000 ppm in 4 samples, and below 100 ppm in 20 samples. Other semi-volatile organic compounds were detected in 11 samples, with 5 samples containing compounds slightly above NYSDEC Remedial Program Soil Cleanup Objectives (SCOs) for Restricted-Residential Use (RRUSCOs); these SVOC detections were generally limited to soils from 0 to 5 feet bsg. VOCs were detected below SCOs for Unrestricted Use in 8 samples.
- Additional analyses for TAL metals, PCBs and pesticides were completed for 4 Site soil samples. Low-level exceedances of RRUSCOs for metals (arsenic, barium, copper, lead and/or mercury) were detected in 3 samples. Re-analysis of the sample containing elevated mercury showed no contamination. PCBs were detected in only 1 sample at trace levels. No samples contained detectable levels of pesticides.
- Groundwater from 9 Site monitoring wells (within the building and in nearby sidewalks) was submitted for laboratory analysis of VOCs (petroleum related compounds, only) and SVOCs. Phthalates were detected above NYSDEC standards in 6 wells, with 4 wells located within the LNAPL plume exhibiting levels of total phthalate compounds above 100,000 parts per billion. Low-level exceedances of VOCs were detected in 2 wells.

ASR conducted an interim remedial measure (IRM) from 2006 through 2009, consisting of the removal of LNAPL from recovery wells located within the building, using both manual bailing and automated equipment (approximately 9,000 gallons were removed). LNAPL was historically detected in Site monitoring wells MW-4 through MW-7, MW-15 and MW-16, and recovery wells RW-2 through RW-12. Concurrent quarterly groundwater sampling for petroleum compounds and phthalates documented ongoing contamination by dissolved phthalates and an absence of any significant dissolved VOCs.

ESI began overseeing IRM activities at the Site in December 2009. Product recovery belt skimmers were installed at recovery wells RW-8 and RW-12 in October 2010 to enhance the product recovery system previously installed by ASR (pumping units at RW-3 and RW-10). Product recovery activities by ESI through January 2015 account for removal of approximately 12,400 gallons from the subsurface are documented in monthly reports submitted to NYSDEC. Historical LNAPL gauging data (September 2012 to March 2014) are presented in Table 15, Appendix B.

An Interim Investigation Report issued by ESI in April 2010 documents additional site investigation completed prior to the listing of the western portion of the NuHart property as an IHWDS. A copy of the Interim Investigation Report is provided in Appendix E and observations and laboratory findings presented in the report are discussed below.

- An analysis of the LNAPL present in RW-7, located at the northeastern portion of the building near the former fuel oil USTs, documented an absence of significant levels of phthalates. This finding indicated that the free product present in the recovery well was not an admixture of industrial wastes and could continue to be managed as a petroleum release.
- LNAPL at MW-4 (eastern portion of the Site) was observed to have a light yellow color and was identified as a mixture of phthalates. Dark colored, sticky LNAPL was observed at the western portion of the property in MW-5 through MW-7, MW-15, MW-16, RW-2 through RW-6, and RW-8 through RW-12. LNAPL at RW-12 was identified as a mixture of phthalates and a high boiling point paraffinic, petroleum based oil (MW-4 did not contain a significant amount of petroleum based oil). LNAPL at MW-20 (off-site sidewalk on the southern side of Dupont Street) was identified as bis(2-ethylhexyl)phthalate (DEHP). The apparent depth of free product in monitoring wells ranged from approximately 0.2 to 4.9 feet.
- No LNAPL was detected in RW-1 and exterior wells MW-8 (located in the sidewalk directly north of the building) and MW-12, MW-13 and MW-14 (located to the northwest and west across the adjoining roadways).
- Groundwater was determined to be flowing from the east to the west across the property. Off-site monitoring wells MW-12 and MW-13 (located to the northwest of the Site) were determined to be tidally influenced; nearby monitoring well MW-14 (located west of the Site), and MW-1, MW-2 and MW-3 (located east of the Site), however, were not tidally influenced.

- Water quality samples from off-site monitoring wells without overt LNAPL contamination (MW-3, MW-10, MW-12, MW-13 and MW-14) were analyzed for VOCs and SVOCs (full list parameters). No significant levels of dissolved phthalates were detected. Trichloroethylene (TCE) was detected at 15 µg/L in off-site well MW-13. No other significant levels of analytes were found in any samples.

2.4 Proposed Future Use of the Site

Future use of the former NuHart Plastics Manufacturing property, which includes the Site, is expected to be either restricted-residential or mixed use (restricted-residential and commercial). No specific redevelopment designs have been set forth by the Site Owner or other interested parties.

3.0 SITE INVESTIGATION

ESI extended a total of 55 soil borings during performance of the RI, with an additional 8 borings extended solely for the collection of soil vapor. Permanent groundwater monitoring wells were installed at 22 of the soil boring locations.

The RI findings are supplemented by data collected from the extension of 7 soil borings in the adjoining spill site area, 3 of which were converted to permanent groundwater monitoring wells, and by groundwater quality and product identification data collected in 2010, documented in ESI's Interim Investigation Report.

Fieldwork activities, laboratory submission and a qualitative human health exposure analysis are presented below. Analytical results from a total of 146 samples (inclusive of supplemental data) are provided in Tables 1 through 13 and a summary of sample collection and submission to the laboratory is provided in Table 14, Appendix B. Soil boring logs are presented in Appendix C, driller's monitoring well construction logs are presented in Appendix D and results from the Community Air Monitoring Plan (CAMP) are provided in Appendix G.

3.1 General Provisions

3.1.1 Utility Markout

Prior to the initiation of fieldwork (and prior to any subsequent intrusive fieldwork), a request for a complete utility markout of the subject property was submitted by ESI as required by New York State Department of Labor regulations. Confirmation of underground utility locations was secured and a field check of the utility markout was conducted prior to the extension of soil borings and/or the installation of monitoring wells. Additional markout services were provided, as warranted, by private contractors prior to fieldwork conducted in public sidewalks.

3.1.2 Agency Notification

The NYSDEC was notified in writing and/or via email prior to the initiation of all fieldwork. Changes to fieldwork scheduling and interim updates were provided via email and/or telephone calls.

3.1.3 Equipment Decontamination and Calibration

Prior to the initiation of fieldwork, all field equipment used during the work was properly decontaminated in accordance with NYSDEC guidelines, and all field instruments were properly calibrated in accordance with procedures set forth by the equipment manufacturer(s).

A photo-ionization detector (PID) was utilized by ESI personnel to screen all encountered material for the presence of any volatile organic vapors where appropriate. Prior to the initiation of fieldwork, this PID was properly calibrated to read parts per million calibration vapor equivalents (ppm-cge) of isobutylene in accordance with protocols set forth by the equipment manufacturer.

3.1.4 Investigation Derived Waste

Waste materials generated during Site investigation were stored within the on-site structure and periodically disposed of off-site at permitted facilities. Water generated during development and sampling of wells was placed into intermediate bulk storage containers (approximately 250- to 400-

gallons) utilized for the storage of phthalates and phthalate/water mixes removed from recovery wells. Phthalates and phthalate/water mixes removed from the Site have been classified as hazardous wastes. Soil cuttings not returned to boreholes and used equipment (e.g., gloves, spent absorbent pads, bailers, etc.) were placed into labeled 55-gallon drums and disposed off-site at permitted facilities. Waste disposal manifests are provided in Appendix F.

3.1.5 Subcontractors

ESI supervised the advancement of soil borings and/or the installation of monitoring wells by Todd Syska, Inc. (Syska), Soil Testing, Inc. (Soil Testing), Zebra Environmental Corporation (Zebra), Haz-Probe, Inc. (HPI) and Associated Environmental Services, Ltd (AES). The Health and Safety Plan (HASP) prepared for the Work Plan was reviewed with all on-site subcontractors. ESI personnel served as the Site Health and Safety officer during all on-site work. ESI personnel developed all monitoring wells and collected all soil, soil vapor and groundwater samples.

Laboratory services were subcontracted to New York State Department of Health (NYSDOH) certified laboratories (York Analytical Laboratories, Inc. [York, ELAP Certification Number 10602] and Alpha Analytical [Alpha, ELAP Certification Number 11148]). Data Usability Summary services were completed by EnviroAnalytics of Utica, New York and ZDataReports of Syracuse, New York.

Waste disposal services for non-hazardous soil, and hazardous liquid and solid wastes, were provided by Miller Environmental Group of Westbury, New York.

3.1.6 Fieldwork Observations, Sample Collection and Sample Custody

An assessment of field conditions (e.g., soil type, indications of contamination, PID readings) was made during the collection of all samples. ESI personnel maintained field logs documenting all field observations and measurements (see soil boring logs in Appendix C).

All media samples were collected in a manner consistent with NYSDEC sample collection protocols. Dedicated, disposable gloves were worn by all personnel handling samples, and collected media was placed into laboratory-supplied containers. All sample containers were maintained at low temperature prior to, and during, transport to the laboratory for analytical testing. Appropriate chain-of-custody procedures were followed.

Non-dedicated sampling equipment was decontaminated prior to initiation of fieldwork and before each new sample location, as appropriate.

3.1.7 Standards, Criteria and Guidance

Standards, Criteria and Guidance (SCGs) applicable to media investigated during the RI are specified below.

Soil

SCGs for all compounds detected in soils are based on NYSDEC Remedial Program SCOs for Restricted-Residential Use (RRUSCOs) as provided in 6 NYCRR Subpart 375, Table 375-6.8(b) “Protection of Public Health” category, and on Supplemental SCOs and Soil Cleanup Levels (for gasoline and fuel oil contaminated Soils) presented in NYSDEC CP-51 Tables 1 through 3. Data summary tables for soil also provide SCOs for Unrestricted Use (UUSCOs) for comparative purposes.

SCOs for soils are referenced in units of micrograms per kilogram (ug/kg, parts per billion [ppb]) for VOCs and SVOCs and milligrams per kilogram (mg/kg, parts per million [ppm]) for metals.

Water

SCGs for all compounds detected in water are based on Ambient Water Quality Standards and Guidance Values (AWQS) presented in NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1). SCGs for groundwater are referenced in units of micrograms per liter (µg/L).

Soil Vapor

The State of New York does not have any standards, criteria or guidance values for volatile chemicals in subsurface vapors (either soil vapor or sub-slab vapor). Relatively high levels of VOCs in subsurface soil vapor are noted in the report text and in data summary tables in order to facilitate a discussion of investigative findings. The NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006) identifies several Air Guideline Values to be used in evaluating indoor air quality, which may be used in conjunction with sub-slab soil vapor data when evaluating the potential for soil vapor intrusion within buildings.

3.1.8 Documented Variations from the Approved Work Plan

There were no significant deviations from the Work Plan that were critical to the validity of the conclusions and recommendations presented in Section 4.0.

Variations from the approved Work Plan are discussed in relevant sections of this RIR as follows:

- Soil Investigation: Several soil borings could not be extended due to site conditions (limited physical access and repeated subsurface refusal), and additional sampling locations were utilized to provide alternative sources of data and to further delineate known contaminant conditions (see Section 3.3).
- Groundwater Investigation: Proposed sampling was not conducted at several monitoring wells, based on either the presence of LNAPL or poor well recharge/absence of sufficient water (see Section 3.4).
- Installation of Recovery Wells: Proposed recovery wells RW-13 through RW-15 were not installed based on observations of slow/inefficient removal of LNAPL at existing recovery wells.

3.1.9 CAMP Findings

VOC screening was conducted during all fieldwork activities; no significant VOC readings or exceedances were observed. No dust monitoring was completed for any work conducted inside the building. Data document the absence of any exceedances of dust levels during all intrusive fieldwork for which monitoring was completed. Dust data are presented in Appendix G.

3.2 Soil Vapor Investigation

Soil vapor was collected at 14 on- and off-site locations (9 within the bounds of the IHWDS, 3 off-site within the eastern portion of the building and 2 off-site at the northern side of Clay Street). All soil

vapor sampling locations are shown on Figure 3, Sampling Location Map, Appendix A and a summary of sample collection and submission to the laboratory is provided in Table 14, Appendix B.

3.2.1 Sample Collection Methodology – Soil Vapor

A soil vapor survey was completed to determine the level of VOCs in the soil vadose zone beneath and near the building complex. Soil vapor samples were collected from borings SG-1 through SG-4 on February 2, 2012 (proposed in the RIWP), borings 2SB-2 through 2SB-4, 2SB-6 through 2SB-8 and 2SB-10 on July 31, 2013, and 2SB-16 on December 4, 2013 (proposed in the SRIWP), and from borings 3SB-1 and 3SB-2 on September 22, 2014 (proposed in the TCEWP). The 2SB and 3SB sampling rounds were implemented at the request of NYSDEC in order to delineate elevated levels of TCE initially detected at SG-4 (and subsequently documented in several groundwater monitoring wells). Vapor samples 2SB-7 and 2SB-8 were collected immediately east of the Site boundary (within the building), 2SB-10 was collected off-site at the far northeastern portion of the building near adjoining residential property, 2SB-16 was collected from the northern portion of the Site in close proximity to Clay Street and 3SB-1 and 3SB-2 were collected from the northern sidewalk on Clay Street. Survey points are shown on Figure 3, Sampling Location Map, Appendix A.

Sub-slab soil vapor sampling was conducted from borings that were extended directly through the building slab or sidewalk using mechanized Geoprobe equipment, consistent with the approved Work Plan. The end of the sample tubing (0.188 inch inner diameter Teflon) was attached to an “air stone” filter and inserted through the slab breach to a point approximately 1 to 2 feet above the water table, and the boring was backfilled with clean silica sand.

The top of the bore hole was sealed using a non-VOC containing caulk in order to prevent the infiltration of surface air. The space around the sampling point was enclosed and sealed (with a metal hemisphere and clay) in order to introduce a tracer gas (helium) into the area surrounding the probe point. Helium was introduced into the enclosure and a helium detector (Radiodetection Multi-vapor Leak Locator, model MDG 2002) was utilized to determine when the interior atmosphere reached a concentration of 80% (helium was not used at 2SB-16 due to a tank malfunction). A vacuum pump was then utilized to purge the standing air from the tubing and open the soil interval. At least three borehole and tubing volumes were purged prior to sample collection at a rate of 0.2 liters per minute. Following purging, sub-slab soil vapor samples were collected over a one-hour period using a six-liter stainless steel, laboratory supplied Summa canister with a one-hour calibrated flow controller. For each sampling canister, the pre- and post-sample canister pressure, start and stop times, and location of each sampling point was recorded.

3.2.2 Fieldwork Observations – Soil Vapor

Building slabs observed at the Site generally consisted of 4 to 8 inches of concrete in good condition, which allowed for the proper installation of monitoring points at the planned locations. No significant PID readings, odors or other evidence of contamination were noted during soil vapor sampling.

3.2.3 Laboratory Results – Soil Vapor

All soil vapor samples were analyzed for VOCs (USEPA Method TO-15) and helium. Soil vapor sampling locations and detections of TCE and related compounds are shown on Figure 5 in Appendix

A, soil vapor data are summarized in Tables 1 and 2 in Appendix B and laboratory reports are provided in Appendix J.

TCE and tetrachloroethylene (PCE) were detected at 35,000 µg/m^3 and 830 µg/m^3, respectively, at SG-3 during the first sampling round. The second sampling round documented a peak level of 43,000 µg/m^3 at 2SB-3, and 33,000 µg/m^3 at 2SB-2 (these sampling points are located in close proximity to each other north of SG-3 in the central portion of the building). TCE levels ranged from 5,600 to 14,000 µg/m^3 in samples 2SB-4 and 2SB-6 to 2SB-8. TCE was detected at 1,100 µg/m^3 at 2SB-16 (located near Clay Street). TCE levels at 3SB-1 and 3SB-2 were 6,130 µg/m^3 and 134 µg/m^3, respectively.

Peak levels of 1,1,1-TCA (1,000 µg/m^3 and 430 µg/m^3) were found in soil vapor samples 2SB-7 and 2SB-8, respectively. No significant levels of chlorinated VOCs (cVOCs) were detected in 2SG-10, collected off-site at the eastern portion of the building, near occupied residential properties.

Low levels of multiple compounds (BTEX and other petroleum constituents, solvents, etc.) were detected at all sampling points.

3.2.4 Nature and Extent of Contamination – Soil Vapor

Significant soil vapor contamination is present in a limited portion of the building immediately surrounding and to the north of SG-3, and beneath the northern sidewalk at Clay Street. TCE levels in soil (see Section 3.3) have been documented above UUSCOs (but below RRUSCOs) at the northeastern corner of the Site and at the adjoining northern sidewalk, in the vicinity of elevated TCE vapor levels (cVOCs in soil are below UUSCOs at all other sampling locations). High levels of dissolved TCE have also been detected in groundwater at MW-8, MW-34 and MW-40 (see Section 3.4). Significantly lower levels of dissolved TCE have been detected at the immediately downgradient monitoring wells MW-4, MW-7, MW-21 and MW-39, with only slightly elevated levels detected at several of the more distant downgradient wells (e.g., MW-12, MW-13, MW-29 and MW-32).

These data support the conclusion that the cause of elevated soil vapor levels at the Site may be due to a limited solvent “hot spot” in soil and/or groundwater in the vicinity of the northeastern portion of the Site (peak TCE levels in both soil and groundwater have been identified in the immediate vicinity of MW-8).

Limited sampling data indicate that cVOC impacted vapor is not present at the southwestern corner of the Site, or at the far northeastern corner of the building near adjoining eastern residential properties. Low-levels of other VOCs detected in sub-slab soil vapor throughout the building are consistent with levels typically encountered in urban settings and are likely due to the historical industrial use of this or other nearby sites. These compounds are not present at levels suggesting a threat to indoor air quality.

3.3 Soil Investigation

A total of 61 borings were extended during the soil investigation (57 mechanized borings [24 locations converted to groundwater monitoring] and 4 manual borings), with 86 soil samples collected from 60 locations submitted for laboratory analysis. All boring locations are shown on Figure 3, Sampling

Location Map, Appendix A and a summary of sample collection and submission to the laboratory is provided in Table 14, Appendix B.

Investigation of IHWDS

Soil conditions were investigated in accordance with the Work Plan by advancing borings at the Site, in off-site areas both within the building (including near the area associated with the petroleum spill event) and at sidewalks adjoining and in the vicinity of the Site, and within Greenpoint Playground. Proposed soil borings SB-62 and SB-64 were not extended due to repeated refusal, and SB-70 was not extended due to a lack of physical access. An additional soil boring, SB-60B, was extended immediately south of SB-60 in order to collect extra material from shallower soils. Soil boring 3SB-3 met refusal at 15 feet bsg and was finished by stepping out the location by 2 feet (initial boring labeled 3SB-3A and the proximate deeper boring labeled 3SB-3B). A boring for a potential contingency well, MW-33, to be located at the far western end of Greenpoint Playground, was not installed. Fieldwork observations were recorded, and at least one soil sample was collected, from each boring location (no sample was collected at SB-75/MW-20).

Investigation of NYSDEC Spill Site

Monitoring wells MW-17, MW-18 (proposed boring SB-76) and MW-19 were installed, and borings SB-MW-17, SB-MW-18, SB-77A and SB-78A were extended, in the eastern portion of the building and at the adjoining sidewalk at Clay Street, as part of an approved Work Plan implemented at the NYSDEC spill site. Findings from the spill site investigation have been used to supplement data generated during the investigation at the IHWDS, to the extent that such spill site data contribute to defining the nature and extent of constituents of concern identified at the IHWDS.

3.3.1 Sample Collection Methodology

Mechanized borings were extended using a truck-mounted or track-mounted Geoprobe direct-push corer, or with a hollow-stem, rotary drill using a split-spoon sampler. Borings were generally extended to a maximum depth of approximately 20 feet bsg, into saturated soils (MW-38 to MW-40 and the 3SB soil series were extended to approximately 25 feet bsg, with 3SB-6 extended to 30 feet bsg). Manual borings (2SB-12 through 2SB-15) were extended using a hand-held Geoprobe corer to a depth of 2 feet bsg to screen soils immediately beneath the building slab.

Material was removed directly from the disposable acetate sleeves of the Geoprobe or from the split-spoon sampler of the rotary drill. Samples from mechanically extended borings were collected from the soil/groundwater interface and (as warranted) from the interval exhibiting the most significant field indications of contamination and/or likely to contain sources of contamination (e.g., deeper soils in areas suspected of containing TCE contamination). Samples from manually extended borings were collected from the recovered soil interval (0 to 2 feet bsg). Field personnel wore dedicated disposable gloves and placed samples directly into laboratory-supplied glassware. Samples were maintained at cool temperatures, under proper chain of custody procedures. Prior to and after the collection of each material sample, the sample collection instrument (barrel of Geoprobe or split-spoon sampler) were decontaminated to avoid cross-contamination between samples.

All soil sampling for VOCs was conducted according to USEPA Method 5035 fieldwork protocols, utilizing laboratory sampling kits (disposable plastic syringes and prepared 40-ml glass vials).

3.3.2 Fieldwork Observations

Subsurface soils encountered at mechanized soil borings generally consisted of poorly-graded, variable texture sands (including fill beneath the building slab), with sandy silt, sandy and silty clay, and clay noted in deeper saturated intervals (see Section 2.2.2, boring logs provided in Appendix C and driller's well construction logs provided in Appendix D).

LNAPL was observed at the groundwater interface in the western portion of the Site (SB-60, SB-61, SB-67, SB-68 and SB-71/MW-22) and in off-site locations west and southwest of the Site (SB-72, SB-75/MW-20, MW-25 and MW-26). These findings are generally consistent with observations of LNAPL in monitoring and recovery wells (see Section 3.4). Additional evidence of contamination (unambiguous odors and/or staining) was observed at SB-60B, SB-63/MW-21, SB-66 and SB-73. Positive PID readings were recorded in soils at and near the groundwater interface at the northeastern portion of the Site and at off-site areas to the east and to the north along Clay Street (3SB-3A through 3SB-9, and MW-40). A likely thin layer of petroleum-impacted material was observed at the groundwater interface at MW-39, near abandoned fill ports on Clay Street, associated with a former gasoline station.

No evidence of contamination was observed in borings extended at: SB-65 and SB-69 in the central portion of the Site; SB-74 in the sidewalk to the north at Clay Street; MW-23 and MW-24, MW-27 through MW-32, and MW-36 and MW-37 in off-site sidewalks to the south and west; or in MW-41 and MW-42 in Greenpoint Playground.

Petroleum odors, staining and/or LNAPL was observed in borings at the adjoining spill site in MW-18 and MW-19, located to the northwest and south of the former petroleum USTs. No evidence of contamination was observed at MW-17, located to the north, or at borings SB-77A and SB-78A, located to the west, south of MW-18.

Subsurface soils encountered to 2 feet bsg at manual soil borings consisted of uniform fine to medium texture brown sands (likely fill material). No evidence of contamination was observed at these locations.

Soil boring logs, documenting subsurface conditions and all fieldwork observations, are presented in Appendix C.

3.3.3 Laboratory Results – Soil

Soil samples collected from the "SB" soil series and from monitoring wells MW-21 to MW-32, MW-34 to MW-37, MW-1 and MW-42 were analyzed for full list SVOCs plus TICs utilizing USEPA Method 8270, with the exception of samples from off-site borings SB-72, SB-73 and SB-74 which were analyzed for base-neutrals only. At least half of these samples were analyzed for full list VOCs plus TICs utilizing USEPA Method 8260 and least 10% of the samples were analyzed for TAL metals utilizing USEPA Methods 6010 and 7471. Soil collected from boring series "2SB" and "3SB", and monitoring wells MW-38 to MW-40, which were specifically extended to further define the extent of TCE contamination, were submitted for a more limited list of analytes: VOCs and SVOCs (2SB-1 through 2SB-11) or VOCs only (all remaining borings).

Samples specifically collected as part of the remedial investigation at the adjoining spill site to the east were analyzed for SVOC and/or VOC full list parameters without TICs, or for base-neutral SVOCs (no metals analysis was conducted).

Soil sampling locations and detections of significant compounds in soil are shown on Figures 6 through 8, soil data are summarized in Tables 3 to 9 and laboratory submission of samples is summarized in Table 14, Appendix B, and laboratory reports are provided in Appendix J.

3.3.3.1 Soil Analysis: VOCs

No VOCs were detected in soil at levels above RRUSCOs at any boring location (75 total samples, including 5 samples collected at the spill site). Analyte levels above UUSCOs were detected in 22 boring locations: 1,2,4-trimethylbenzene and/or total xylenes at SB-60B and SB-65; TCE, cis-DCE and/or vinyl chloride (VC) at SB-1/MW-34, 3SB-3A, 3SB-3B, 3SB4, 3SB-5, 3SB-8 and 3SB-9; and acetone and/or methylene chloride at MW-19, SB-60, SB-60B, SB-63, SB-67, SB-71, 2SB-13, 2SB-14, 2SB-15, MW-39 and MW-40.

Soils were generally collected from the surface to 15 to 20 feet, with overall focus on deep soils at or below the groundwater interface and on any overtly impacted materials. Soil from several borings with known or suspected contamination by chlorinated solvents was additionally collected from the 20 to 25 feet interval (3SB-4, 3SB-6 and 3SB-9), the 20 to 30 feet interval (3SB-6, collected as representative deep samples for SB-1/MW-34), or was limited to the 0 to 5 feet interval to screen for the potential location of a surface release (2SB-12 to 2SB-15). Peak VOC levels were observed at soil boring SB-60B (15,000 ppb 1,2,4-trimethylbenzene at 6 to 8 feet) and at 3SB-3A (14,000 ppb TCE at 10 to 15 feet.

TICs were detected in 10 of 44 boring locations, with peak total levels reported in overtly impacted soil at SB-60B and MW-19 (27,200 ppb and 28,891 ppb, respectively). TICs generally appear to be related to petroleum.

VOCs at levels above UUSCOs are shown on Figure 6 and detected levels of TCE (and related compounds) are show on Figure 7, and VOC levels in soil are summarized in Tables 3, 4 and .

3.3.3.2 Soil Analysis: SVOCs

Elevated levels of DEHP (RRUSCO 50,000 ppb, UUSCO not established) were detected in 18 of 46 boring locations, with 5 locations additionally containing elevated levels of di-n-octyl phthalate (DOP, RRUSCO 100,000 ppb, UUSCO not established). Total phthalate levels exceeded 1,000,000 ppb in 11 samples (peak total level of 59,776,000 ppb at MW-22[12-14]). Benzyl butyl phthalate (RRUSCO not established) was detected at 48,300 ppb sample MW-22 (10-11). An elevated level of 2-methylnaphthalene (RRUSCO 410 ppb, UUSCO not established) was detected at the spill site at MW-19. No other significant SVOC levels were detected in soil samples.

TICs were detected in 11 of 27 boring locations, with a peak total level reported in overtly impacted soil at MW-21 (18,629 ppb; sample identified as SB-63[14]).

Phthalates at levels above RRUSCOs are shown on Figure 8, and SVOCs in soil are summarized in Tables 5, 6 and 9.

3.3.3.3 Soil Analysis: Metals

All TAL metals, with exception of mercury and silver, were detected in Site soil samples (14 boring locations). Elevated levels of iron (RRUSCO 2,700 ppm) were detected in all samples submitted for analysis, with levels ranging from 10,200 to 37,800 ppm. No other metals were detected at levels above RRUSCOs at any boring location. Metal levels above UUSCOs were detected in 7 locations, including relatively low levels of chromium, copper, lead, nickel, selenium and/or zinc. Metals in soil are summarized in Table 7.

3.3.4 Nature and Extent of Contamination – Soil

Significant soil contamination (i.e. analyte levels above RRUSCOs) is restricted to elevated levels of DEHP and DOP, encountered in soil located at and near the groundwater interface, in an area delimited by known LNAPL contamination (see Sections 3.2.2 and 3.3), and to contamination by 2-methylnaphthalene in overtly impacted soil at the spill site. Other than these areas, no SVOCs were identified at levels exceeding UUSCOs.

The total on-site volume of phthalate contaminated soils is estimated at 7,900 cubic yards. This estimate is calculated based on the lateral extent of free product (documented by LNAPL observed in soil and in monitoring/recovery wells) and assumes a uniform potential smear zone of four feet (the area directly impacted by the static height of LNAPL in the soil column, with allowance made for movement of the top and bottom of the LNAPL lens as groundwater elevations change over time. This estimate is considered to be highly conservative, given that product thickness as measured in wells are generally greater than actual thicknesses in the soil formation. Additional phthalate contaminated soil is present off-site.

Levels of iron in soil above RRUSCOs appear to be indicative of background conditions and are not likely to represent a significant environmental concern.

TCE and related compounds, as well as other VOCs documented in overtly impacted soils, are present at levels below RRUSCOs, but are a potential ongoing source of soil vapor contamination. Existing data suggest the presence of a limited solvent hot spot in soil (and/or groundwater) in the northeastern corner of the Site and off-site, particularly in the vicinity of at MW-8. No estimate of the volume of TCE-contaminated soil can be provided at this time.

Petroleum compounds released at the adjoining spill site to the east have not significantly impacted Site soils. Similarly, with the exception of phthalates associated with LNAPL contamination, contamination by organic and inorganic compounds has not significantly impacted soils beneath off-site sidewalks to the south, west and north, or in Greenpoint Playground.

The total on-site volume of petroleum contaminated soil is estimated at 800 cubic yards (excluding the volumes occupied by USTs that have been closed-in-place).

3.4 Groundwater Investigation

A total of 45 groundwater samples from 30 on- and off-site monitoring wells (8 pre-existing wells and 22 of 25 wells installed by ESI) were submitted for laboratory analysis. Several newly installed wells at the southwestern margin of the phthalate plume (MW-20, MW-25 and MW-26) were not sampled for groundwater based on the presence of LNAPL. All groundwater sampling locations are shown on

Figure 3, Sampling Location Map, Appendix A and a summary of sample collection and submission to the laboratory is provided in Table 14, Appendix B.

Investigation of IHWDS

A total of 22 new groundwater monitoring wells were installed at both the Site and in off-site areas in accordance with the Work Plan and subsequent NYSDEC communications. The RIWP called for completion of borings SB-75, SB-63, and SB-71 as groundwater monitoring wells (MW-20, MW-21 and MW-22), and the redevelopment of 8 existing monitoring wells (MW-4, MW-6, MW-7, MW-12, MW-13, MW-14, MW-15 and MW-16). An additional 3 wells were installed on- and off-site within the building in the vicinity of TCE contamination in soil vapor (MW-34, MW-35 and MW-40) and 16 additional monitoring wells were installed at exterior off-site locations (MW-23 through MW-32, and MW-36 and MW-37 in sidewalks to the southwest and west, MW-38 and MW-39 in the sidewalk north of Clay Street, and MW-41 and MW-42 within Greenpoint Playground).

Groundwater quality was investigated through the gauging and sampling of both the newly installed wells and selected wells from the pre-existing monitoring-well network (comparative data generated from well sampling conducted by ESI in 2010, prior to the approval of the Work Plan, has been included in the data tables).

Investigation of NYSDEC Spill Site

A total of 3 new monitoring wells (MW-17 through MW-19) were installed in the eastern portion of the building as part of the approved Work Plan implemented at the NYSDEC spill site. Findings from the spill site investigation have been used to supplement data generated during the investigation at the IHWDS.

3.4.1 Monitoring Well Installation

Monitoring wells MW-17 through MW-29 were installed by Soil Testing, MW-30 through MW-32, MW-34 and MW-35, and MW-38 through MW-40 were installed by Zebra, MW-36 and MW-37 were installed by HPI, and MW-41 and MW-42 were installed by AES. All fieldwork was conducted under the direct supervision of ESI field personnel. Monitoring well locations are illustrated on Figure 12, Direction of Groundwater Flow, Appendix A.

Each monitoring well was constructed of two-inch PVC casing with 10 feet of 0.01-inch slotted PVC well screening placed to extend 2 feet above the water table (monitoring wells MW-38 through MW-40 utilized 15 feet of well screen from 5 to 20 feet bsg). All wells points were set at approximately 20 feet bsg. The annular spaces between well screens and boreholes were backfilled with clean #1 silica sand to a depth of 1 to 2 feet above the well screen (monitoring wells MW-30 through MW-32, and MW-34 and MW-35 installed by Zebra utilized well screen “pre-packed” with sand). A one-foot thick bentonite seal was poured down the borehole above the sand pack and allowed to hydrate before grouting the remaining annular space with cement. All wells are equipped with a gripper casing cap and are secured with a drive over steel casing (with the exception of MW-34 and MW-35, which are stick-up wells within the building). Soil boring logs are presented in Appendix C and driller’s monitoring well construction logs are presented in Appendix D.

3.4.2 Monitoring Well Development

Wells were developed to enhance the natural hydraulic connection between the well screen and the surrounding soils. Well casings were first screened with a PID to document the presence of any volatile organic vapors. A submersible pump and dedicated polyethylene tubing were then used to clear fine-grained material that may have settled around the well screen and at the base of the well. Well development began at the top of the water column to prevent clogging of the pump by excessive sediment. The pump body acted as a surge-block by being raised and lowered within portions of the screened interval to force water back and forth through the screen. Repeated surging and pumping was conducted to the bottom of the well casing until the discharged water appeared free of sediment and indicator parameters (pH, temperature, turbidity, dissolved oxygen and specific conductivity) had stabilized. The pump assembly was removed from the well while the pump was still running to avoid discharge of purged water back into the well. Between wells, all non-dedicated equipment was decontaminated.

Newly installed monitoring wells MW-20, MW-21, MW-25 and MW-26, and pre-existing monitoring wells MW-4, MW-6, 7, 15, 16 were noted to contain LNAPL and were not developed. Previously existing monitoring wells MW-12 and MW-14 were dry during well sampling conducted in 2012.

3.4.3 Groundwater Flow and Tidal Influences

Groundwater flow was calculated using measurements collected in March 2014 from 7 of 35 monitoring wells, all of which did not have LNAPL. The general direction of groundwater flow was determined based on elevations of static groundwater using an electronic depth meter accurate to the nearest 0.01-foot (measured prior to any sample collection). Groundwater depth from the top of the well casing, as recorded during the March 2014 gauging event, ranged from between 6.94 (MW-13) and 10.69 feet (MW-29) bsg. These raw measurements were compared to existing well survey data to generate current groundwater elevation contours. Direction of groundwater flow was determined to be in a westerly direction, consistent with previous observations, which show general groundwater flow from east to west, toward the nearby East River and Newtown Creek. The rate of groundwater flow was not determined. Direction of groundwater flow is illustrated on Figure 12, Appendix A.

An assessment of tidal influences from the East River was completed using electronic level loggers installed in monitoring wells MW-1, MW-2, MW-3, MW-12, MW-13, and MW-14 on Friday February 12, 2010 (these wells were chosen based on an absence of LNAPL, as indicated in ASR reports). The level loggers were recovered on Monday February 15, 2010, providing data for approximately 72 hours.

Recording data indicated a rise and fall in groundwater elevation in all wells over the 72 hour testing period; however, a repeating pattern of groundwater rising and falling over approximately 12 hours cycles (indicating tidal influence) was evident only in MW-12 and MW-13, which are located on the western side of Commercial Street and are closest to the confluence of Newtown Creek and the East River. MW-14, the next closest well to the on-site building, and MW-1, MW-2, and MW-3, located off-site in the eastern portion of the building, did not have repeating water level patterns, indicating minimal or no tidal influence. Tidal assessment data are presented in the Interim Investigation Report, provided in Appendix E.

3.4.4 LNAPL in Monitoring wells

Previous environmental investigations by ASR and ESI documented the presence of LNAPL in on-site monitoring and recovery wells, and in multiple off-site monitoring wells located in sidewalks immediately adjacent to the on-site building. LNAPL at MW-4 was identified as a mixture of phthalates, and LNAPL at RW-12 was identified as a mixture of phthalates and a high boiling point petroleum based oil. LNAPL at off-site monitoring well MW-20 was identified during the RI as DEHP. The source of this material is likely to have been failing USTs formerly containing plasticizers and lubricating oil, rather than the former piping network (significant phthalate contamination is not present in surface soil). The areal extent of LNAPL contamination is shown on Figure 13, Appendix A, and laboratory reports identifying LNAPL constituents are provided in Appendix H.

A total of 22 new monitoring wells (5 interior and 17 exterior) were installed by ESI during the implementation of the Work Plan, with an additional 3 new wells (1 interior and 2 exterior) installed at the spill site. LNAPL has been observed in 5 of these new wells (interior wells MW-21 and MW-22, and exterior wells MW-20, MW-25 and MW-26).

Monthly gauging events conducted during the RI and the ongoing IRM document a LNAPL plume beneath approximately 80% of the defined footprint of the IHWDS, which extends off-site to the southwest, with free product observed at the northwestern and southeastern corners of Dupont and Franklin Streets. Historical gauging data for LNAPL (the 25 most recent fieldwork events) are presented in Table 15, Appendix B.

The lateral extent of contamination is defined by an absence of LNAPL at additional wells installed: along the perimeter and within Greenpoint Playground to the west (MW-30 to MW-32, MW-41 and MW-42); at the southwestern corner of Dupont and Franklin Streets (MW-24, MW-36 and MW-37) and farther along the roadways (MW-23 and MW-27 to MW-29); along Clay Street to the north (MW-38 and MW-39) and east (MW-17 and MW-18); and within the building in the northeastern quadrant of the IHWDS (MW-34 and MW-35) and off-site to the east at MW-19 and MW-40.

The total volume of free product at this Site is estimated at 32,900 gallons on-site and an additional 9,000 gallons off-site, with an expressed error range of 50%. This estimate is calculated from the relative apparent thicknesses of product at all wells with meaningful product thicknesses, assuming consistent thicknesses in areas between data points and assuming linear reductions beyond data points. Boring logs generally demonstrate variable texture sand above the static water levels (that is, in the stratum where floating product is present) and therefore a co-efficient of 0.35 is used to represent available space for product within the soil column.

It is recognized that gauging data represent the apparent thicknesses of LNAPL measured in wells of varying diameters and over periods of time during which the water table fluctuated. As result of capillary forces and other processes operating within wells, particularly under changing water table conditions, the apparent thickness of LNAPL in wells is generally greater than the actual thickness in the formation. Therefore, LNAPL volume estimates made using well gauging data tend to overestimate the actual volume of LNAPL in the formation.

3.4.5 Sample Collection Methodology

Groundwater samples were collected in February 2010 (prior to implementation of the Work Plan), March, April, and September 2012, August and November 2013, and in April, October and December 2014. Monitoring wells MW-20, MW-21, MW-25 and MW-26, and pre-existing monitoring wells MW-4, MW-6, 7, 15 and 16 were not sampled during fieldwork conducted prior to November 2013 based on the presence of LNAPL within the casing. Monitoring wells MW-12 and MW-14 were found to be dry during the 2012 groundwater quality sampling event. A total of 45 water samples (excluding duplicates) were collected.

Prior to sampling, each monitoring well casing was opened and the well column was immediately screened with a PID to document the presence of any volatile organic vapors. All wells were purged and sampled following USEPA low stress ("low flow") purging and sampling procedures. All sampling was conducted using a Horiba® U-52 multi-parameter water quality meter, dedicated plastic tubing and a peristaltic pump.

Sample collection occurred after wells were purged for at least 15 minutes and field parameters stabilized (achieved when three consecutive readings were within the required parameters specified by the USEPA protocol). Each groundwater sample was collected in laboratory supplied glassware (40 ml vials, 1 liter amber jars and 250 ml plastic jars, preserved with acid as appropriate for the specific analysis). No groundwater samples were filtered prior to submission to the laboratory. After sample collection, the containers were placed in a cooler prior to laboratory pick-up. All samples were accompanied by proper chain of custody documentation.

Sample collection methodology at monitoring wells MW-4 and MW-21 was modified during the November 2013 and April 2014 sampling events (delineation of TCE contamination) in an attempt to collect groundwater from beneath the LNAPL layer. The wells were gauged prior to sampling to determine the heights of both the water column and the LNAPL layer. Based on these data points, a 1 inch diameter PVC pipe of an appropriate length, with a tethered, friction-fitted cap at the bottom, was lowered into each well and the cap was knocked loose with a stiff rod after the invert of the pipe was within the calculated water column. Although the procedure failed in November 2013 (LNAPL was drawn into the sampling tubing), samples were successfully collected for VOC analysis in April 2014. This successful procedure was repeated at LNAPL-impacted monitoring wells MW-7 and MW-22 during the October 2014 sampling event (follow-up TCE investigation).

3.4.6 Laboratory Results – Groundwater

Samples were analyzed for VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270), and/or TAL metals (USEPA Methods 6010) in accordance with the Work Plan. Laboratory results for groundwater are summarized in Tables 10 to 13 and laboratory submission of samples is summarized in Table 14, Appendix B, and laboratory reports are provided in Appendix J.

3.4.6.1 Water Analysis: VOCs

Significantly elevated levels of TCE (AWQS 5 µg/L) and cis-DCE (AWQS 5 µg/L) were detected at MW-8 (peak values 33,000 µg/L and 2,700 µg/L, respectively), MW-40 (7,400 µg/L and 530 µg/L, respectively), MW-34 (peak values 3,000 µg/L and 740 µg/L, respectively), MW-39 (210 µg/L and 33 µg/L, respectively) and MW-35 (160 µg/L and 61 µg/L, respectively). Elevated levels of vinyl chloride

(AWQS 2 µg/L) were detected at MW-8 (16 µg/L), MW- 34 (12 µg/L), MW-12 (8.5 µg/L) and MW-35 (2.9 µg/L). Low-level exceedances of TCE were detected in MW-13 (15 µg/L), MW-17 (7 µg/L), MW-18 (16 µg/L), MW-38 (47 µg/L), and MW-29 (13 µg/L) and a single low-level exceedance of PCE (AWQS 5 µg/L) was detected in MW-8.

TCE and related compounds were detected at levels below AWQS at MW-4, MW-7, MW-10, MW-14, MW-17, MW-19, MW-21 and MW-23.

Several petroleum compounds were detected below AWQS in MW-3, MW-18, MW-19 and MW-29.

An elevated estimated level of acetone (AWQS 50 µg/L) was detected at MW-8 (420 µg/L) in April 2014 (this sample was noted to contain the analyte in the method blank, indicating possible cross-contamination, and acetone was non-detect in the well during the October 2014 sampling event). No other significant acetone levels were noted. Marginal exceedances of methylene chloride (AWQS 5 µg/L) were reported for multiple monitoring wells; this compound, however, is a common laboratory contaminant which was also found in the method blanks, and is not considered representative of actual site conditions.

TICs were detected in 6 of 25 groundwater samples. Total TICs were reported at spill site wells MW-10 and MW-18 at 59 and 110 µg/L, respectively, and at MW-21 and MW-22 (installed within the LNAPL plume) at 6,624 µg/L and 69 µg/L, respectively. Total TIC levels at MW-19, MW-23 and MW-35 were below 7 µg/L.

TCE and related compounds in groundwater are shown on Figure 9 and TCE isoconcentrations in groundwater are shown on Figure 10, and VOC levels in groundwater are summarized in Tables 10 and 13.

3.4.6.2 Water Analysis: SVOCs

Elevated levels of DEHP (AWQS 5 µg/L) were detected at MW-22 (1,750 µg/L), MW-29 (209 µg/L), MW-34 (59 µg/L), MW-19 (39.6 µg/L), and at MW-3, MW-17, MW-23 and MW-27 at levels below 13 µg/L. An elevated level of DOP (87.1 µg/L, AWQS 50 µg/L) was detected at MW-34 in November 2013 (DOP was detected in this well at 6.51 µg/L in August 2013). No other SVOCs were detected in any groundwater samples.

TICs were detected in 3 of 16 groundwater samples. Total TICs were reported at spill site wells MW-18 and MW-19 at 32 and 6 µg/L, respectively, and at off-site well MW-42 at 4.96 µg/L.

Levels of phthalates in groundwater are shown on Figure 11, and SVOC levels in groundwater are summarized in Tables 11 and 13.

3.4.6.3 Water Analysis: Metals

Elevated levels of several TAL metals were detected: sodium (34.9 to 311 µg/L, AWQS 20 µg/L) in all 16 samples; iron (0.899 to 9.38 µg/L, AWQS 0.3 µg/L) in 9 samples; and, magnesium (39.4 to 80.1 µg/L, AWQS 0.02 µg/L) in 5 samples. No other TAL metals were reported at levels above AWQS (antimony, arsenic, beryllium, cadmium, mercury, silver, thallium and vanadium were non-detect in all samples). Metals in groundwater are summarized in Table 12.

3.4.6.4 Quality Control Samples (Blanks)

An elevated level of DEHP (849 µg/L) was detected in the rinse blank sample collected on February 2, 2012 (no other SVOCs or TICs were identified). No VOCs or significant metal levels were detected. No SVOCs were detected in the rinse blank collected on March 16, 2012. A low level of 4-methyl-2-pentanone (2 µg/L) and multiple TICs were detected in the trip blank prepared April 3, 2014. Low levels of acetone and methylene chloride were detected in several blanks; with the exception of acetone detected at 7 µg/L in the trip blank prepared August 16, 2013, however, all results are flagged to indicate that the analyte was also detected in the laboratory batch sample, indicating contamination during analysis.

3.4.7 Nature and Extent of Contamination – Groundwater

VOCs

Groundwater sampling in 2013 and 2014 documented peak levels of TCE (33,000 µg/L) and DCE (2,700 µg/L) at MW-8, with levels decreasing by an order of magnitude at MW-40 (7,400 µg/L and 530 µg/L) and MW-34 (3,000 µg/L and 740 µg/L), and by two orders of magnitude at MW-35 and MW-39 (peak values of 210 µg/L and 61 µg/L). TCE levels in nearby cross-gradient well MW-38 is similarly low (47 µg/L). Low-grade contamination (16 µg/L or less) is documented at peripheral wells MW-12, MW-13, MW-18 and MW-29. No significant TCE contamination was found in any other wells, including MW-3, MW-10 and MW-19 located at the eastern portion of the building (older data from 2012 documented low-level exceedances at MW-17 [7 µg/L]).

The steep reduction in TCE and DCE levels in monitoring wells located at the periphery of the northeastern quadrant of the Site suggests that the source area of the contamination is limited. The consistency of data across media suggest the presence of a release of cVOCs in the immediate vicinity of MW-8 and MW-34, affecting the integrity of the soil, groundwater and soil vapor.

No significant levels of other VOCs have been detected in groundwater. Trace to low-level petroleum compounds may be related to either the adjoining spill or poor water quality generally present in the surrounding industrial area.

SVOCs

Groundwater contamination by SVOCs is limited to phthalates (DEHP and DOP). Elevated levels of DEHP were detected in 3 of 12 wells sampled in 2013 and 2014, and 7 of 10 wells sampled in 2012. An elevated level of DOP was detected in one well in 2013. The peak DEHP level was detected at MW-22, collected prior to LNAPL entering the well casing (likely due to phthalates adhering to fines suspended in the groundwater). No other SVOCs have been detected in groundwater samples (low levels of TICs were found at MW-18 and MW-19 at the spill site).

Metals

Groundwater contamination by metals is limited to iron, magnesium and sodium. These findings are likely to be associated with suspended soil particles (samples were unfiltered) and/or may represent dissolved levels found in local area groundwater. The absence of significant heavy metal contamination supports the conclusion that previous industrial activities at the Site have not significantly impacted groundwater quality in relation to inorganic compounds.

3.5 Data Generation and Validation

Complete laboratory data packages (ASP Category B Deliverables, 25 separate reports), containing all laboratory data generated during execution of the Work Plan, were provided by the laboratories. (Several of the reports include soil and groundwater quality data generated during investigation at the spill site in February and March, 2012). These data packages were provided to independent, third-party data validators as specified in the Work Plan.

All data for detected analyte levels in soil, soil vapor and groundwater samples were usable and suited for analysis (with qualifications for several analytes). Laboratory data indicating "non-detect" levels were rejected for a minimal number of samples. A summary overview of the findings, and all Data Usability Summary Reports (DUSRs) provided by the validators, are provided in Appendix I.

3.6 Qualitative Human Health Exposure Assessment

An exposure assessment was conducted to qualitatively assess the potential impacts of known environmental contaminants associated with the Site on human health, with attention to all possible exposure pathways (i.e. ingestion, inhalation and direct contact). Both current (existing conditions) and future use (proposed restricted-residential or mixed restricted-residential/commercial use) scenarios were considered. Contaminants were assessed relative to specific impacted media.

The primary contaminants of concern at the Site are phthalates (DEHP and DOP) in subsurface soils and groundwater (and as LNAPL in both media), cVOCs in soil, soil vapor and groundwater, and low-grade petroleum VOCs in soil vapor. No significant metals contamination, or other significant contamination by VOCs or SVOCs, is present at the Site. On-site workers (or trespassers) present during remediation and/or future development activities are the most likely receptor population.

The following section evaluates the elements associated with exposure pathways, and describes how each of these elements pertains to the Site. For all media, the implementation of a HASP and a CAMP will mitigate possible impacts to both on-site and off-site receptor populations. Any on-site or off-site development activities that involve disturbance, exposure or contact with contaminated soil, soil vapor or groundwater will require monitoring and mitigation plans to address potential direct contact with media, dust generation and contaminant migration.

3.6.1 Soil

Direct contact, ingestion and/or inhalation (of particulate matter) are the primary exposure pathways for contaminated subsurface soils. People can come into contact if they participate in ground-intrusive work at the Site or at off-site areas impacted by the LNAPL plume, or are exposed to dust generated during construction activities, which disturb contaminated soil. Within excavation areas, the potential for contact is generally a concern for work conducted at depths approaching the seasonally high local groundwater elevation (approximately 7 to 12 feet bsg), and for soils located several feet above the water table in areas where LNAPL is present. Outside of excavation activities, there are no likely exposures to contaminated soil, either on the Site or at off-site areas.

The potential exists for low-level contamination to remain at both on-site and off-site areas after remediation and development activities. All potential exposure pathways (direct contact, ingestion or

inhalation) will likely be mitigated as subsurface soils would have been remediated and/or access to subsurface soils would be limited by paved areas and building foundations.

3.6.2 Soil Vapor

Potential exposure pathways include vapor intrusion within the structure (IHWDS and eastern interior off-site areas) and at off-site properties, and direct contact and/or inhalation of contaminated soil vapor generated during soil excavation or remedial construction. Exposure pathways within the building are likely to be insignificant, unless the building is reoccupied prior to remediation and development. A CAMP would be implemented at the Site (and, as required, at off-site areas) to monitor air quality and minimize potential exposures to vapors for both construction works and the public.

The potential for on-site and off-site exposure to soil vapor is expected to decrease after subsurface soils and groundwater have been remediated. Post-remediation sampling results will document contaminant levels in remaining media and will determine the need for any on-site and off-site vapor intrusion studies, and the need for any on-site engineering controls or building design features (e.g., sub-slab depressurization system or a fully ventilated ground floor garage) to mitigate soil vapor intrusion.

3.6.3 Groundwater

Direct contact and/or ingestion are the primary exposure pathways for contaminated groundwater. Impacted groundwater is not being used for drinking water (or any other purposes) at the Site or at off-site areas, as the area is served by the public water supply. No known private wells exist in the vicinity of the Site. People can come into contact if they participate in ground-intrusive work at the Site or at off-site areas impacted by the LNAPL plume or other site-related contamination. The potential for contact is generally a concern for work conducted at depths approaching the seasonally high local groundwater elevation (approximately 7 to 12 feet bsg), and for soils located several feet above the water table in areas where LNAPL is present. Levels of dissolved contaminants in groundwater downgradient of the Site are anticipated to diminish as a result of Site remediation.

4.0 FINDINGS AND CONCLUSIONS

This office has completed the environmental investigative services summarized in Section 3.0 for the Former NuHart Plastic Manufacturing Site, located at 280 Franklin Street, Brooklyn, New York. The investigative work was performed to document the extent of known contamination resulting from former manufacturing and industrial uses of the property, in accordance with a NYSDEC approved Work Plan, and to provide guidance on response actions warranted to address identified environmental conditions.

4.1 Findings

Phase I and Phase II environmental site assessment investigations of the NuHart facility, issued prior to inclusion in the IHWDS program, indicate that the Site has a long history of industrial use, including production of plastic and vinyl products. Underground storage tanks (USTs) formerly containing plasticizers, lubricating oil, chemicals and fuel oil were closed-in-place in 2006. Subsequent soil and groundwater investigations identified petroleum contamination in the vicinity of former fuel oil tanks at the northeastern portion of the building (NYSDEC spill site) and phthalate impacts at the western portion of the building (IHWD Site).

Phthalates were observed as LNAPL in groundwater wells, and elevated levels of phthalates were detected in soil and groundwater samples. Phthalates were generally detected in deep soil near the groundwater interface. No significant levels (above RRUSCOs) of other SVOCs, VOCs, metals, PCBs or pesticides were detected in soil samples.

LNAPL was identified as mixed phthalates at the central-eastern portion of the Site (MW-4), phthalates and paraffinic petroleum-based oil at the western portion (RW-12), and phthalates (DEHP) at an off-site monitoring well on Dupont Street (MW-20). Well gauging data (conducted monthly at both on-site and off-site wells) document a LNAPL plume extending beneath the western and central portions of the Site and beneath off-site sidewalk areas located along Dupont, Franklin and Clay Streets.

Elevated levels of phthalates and TCE, and low-level exceedances of petroleum-related VOCs, were detected in groundwater monitoring wells. Significant TCE contamination is restricted to the northeastern corner of the Site (MW-34 and MW-35) and immediately adjoining off-site areas to the north (MW-8) and east (MW-40). Elevated levels of TCE in soil vapor, and TCE at concentrations above UUSCOs (but below RRUSCOs) in soil, are generally collocated with impacted groundwater, suggesting the presence of a limited solvent “hot spot” in soil and/or groundwater.

With the exception of phthalates associated with LNAPL impacts, contamination by organic and inorganic compounds has not significantly impacted soils beneath off-site sidewalks to the north and south, or at downgradient areas to the west.

Environmental investigations conducted by ESI under the Work Plan document the following areas of concern:

1: NAPL in Soil and Groundwater

Phthalates and a mixture of phthalates/mineral oil are present as a LNAPL plume underlying the majority of the IHWDS and extending off-site to the southwest. The lateral extent of off-site contamination is defined by an absence of LNAPL at wells installed within and along the perimeter of the adjoining Greenpoint Playground to the west and at additional locations along Commercial, Franklin and Dupont Streets. Soil contamination above RRUSCOs is restricted to elevated levels of phthalates (DEHP and DOP), encountered in soil located at and near the groundwater interface, in an area delimited by known LNAPL contamination.

2: Dissolved Organic Compounds in Groundwater

Groundwater sampled in monitoring wells near the LNAPL plume is correspondingly contaminated by phthalates, possibly by suspended particles in the water column. Groundwater at the northeastern portion of the Site (MW-34) and at immediately adjoining off-site areas to the north (MW-8) and east (MW-40) contains significant cVOC contamination. Groundwater at nearby cross-gradient and/or downgradient wells (MW-35 and MW-39) are similarly contaminated, but analytes are present at significantly lower levels (by one or two orders of magnitude). An absence of significant cVOC levels at MW-4, MW-7 and MW-21 (wells immediately downgradient of the wells demonstrating the greatest impacts), and in MW-3, MW-10 and MW-19 (located in the eastern portion of the building), support the conclusion that TCE contamination is limited. Low-grade contamination (16 µg/L or less) is documented at peripheral wells MW-12, MW-13, MW-17, MW-18, MW-29 and MW-32. Petroleum-related VOCs have been detected at levels marginally above AWQS.

3: Soil Contamination (TCE)

TCE is present in soil above UUSCOs (but below RRUSCOs) in the vicinity of elevated levels in soil vapor and groundwater at the northeastern quadrant of the Site and in adjoining off-site areas, suggesting the presence of a limited TCE source area in soil.

4: Soil Vapor Contamination

Elevated levels of TCE and related cVOCs were detected in soil vapor collected at the northeastern and eastern-central portions of the Site, in the vicinity of TCE impacted soil and groundwater, and at nearby off-site locations to the east (within the building) and to the north on Clay Street (northward migration of soil vapor may be impacting commercial buildings in this area). Limited sampling data indicate that impacted vapor is not present at the southwestern corner of the Site, or at the far northeastern corner of the building near adjoining eastern residential properties.

5: Petroleum Contamination

Petroleum compounds released at the adjoining spill site to the east have not significantly impacted Site soils.

4.2 Conclusions

Site investigative work has been completed on IHWD Site #224136, including substantial work demonstrating the extent of contamination both on and off the Site. Soil, soil vapor, and groundwater investigations have been completed, with supplemental work completed in product identification and groundwater flow.

Based on this work, the following general conclusions are reached:

- Sufficient investigative work has been completed on the spatial dimensions of soil and groundwater (including free-product) contamination associated with phthalates and TCE. Additional work is warranted to identify and evaluate remedial options both on and off the Site and to remediate on-site soils that are considered source areas.
- Sufficient investigative work has been completed with respect to known petroleum contamination in soil, as well as the limited area of free-product petroleum. Additional work is warranted to identify and evaluate remedial options to address these known conditions
- Limited investigative work has been completed with respect to soil vapor concerns on and off the Site. An area of elevated cVOCs is present, in the general location of impacted soil and groundwater. Response actions to address cVOCs in other media (soil and groundwater) are expected to substantially reduce soil vapor levels. Additional documentation of soil vapor conditions, both on- and off-site, is warranted following construction to document the effectiveness of the remedial action.
- Sufficient investigative work has been completed with respect to metals, PCBs and pesticides in on-site soils and groundwater. None of these compounds were determined to be constituents of concern at this Site.

APPENDIX A

Figures

All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

Figure 1: Site Location Map 280 Franklin Street Borough of Brooklyn Kings County, New York	Legend: IHWD site boundary former NuHart Plastics Manufacturing Site	ESI File: SB09110.50 July 2015 Appendix A

N

- 1 & 2 Family Residential
- Multi-family Residential
- Mixed Use
- Open space & outdoor recreation
- Commercial
- Institutions
- Industrial
- Parking
- Transportation / Utilities
- Vacant Lots

Figure 2: Area Land Uses

280 Franklin Street
Borough of Brooklyn
Kings County, New York

Legend:

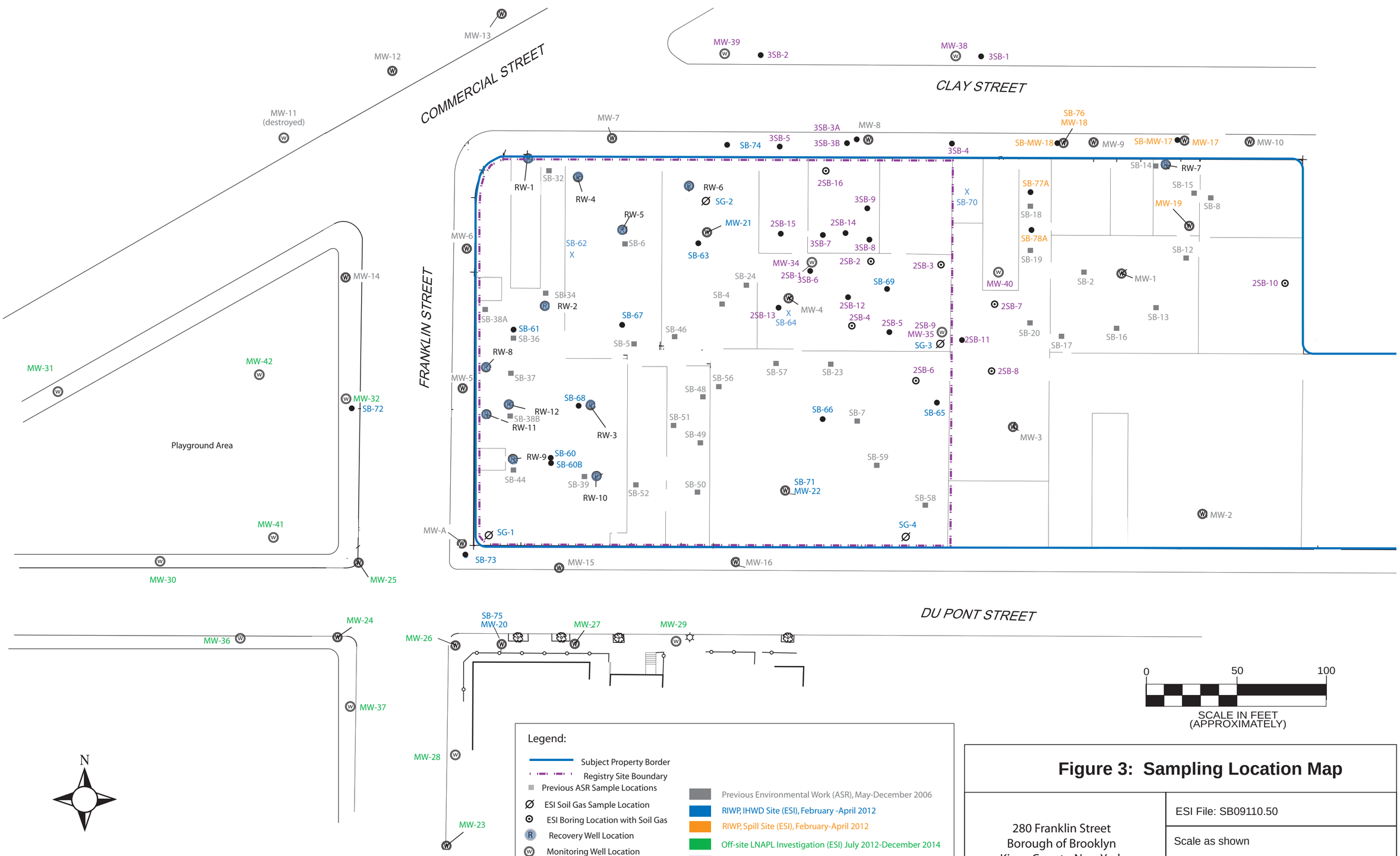
- IHWD site boundary
- former NuHart Plastics Manufacturing Site

ESI File: SB09110.50

July 2015

Appendix A

Ecosystems Strategies, Inc.



Base map provided by Morris Associates P.L.L.C. dated 7/26/12.

Figure 3: Sampling Location Map

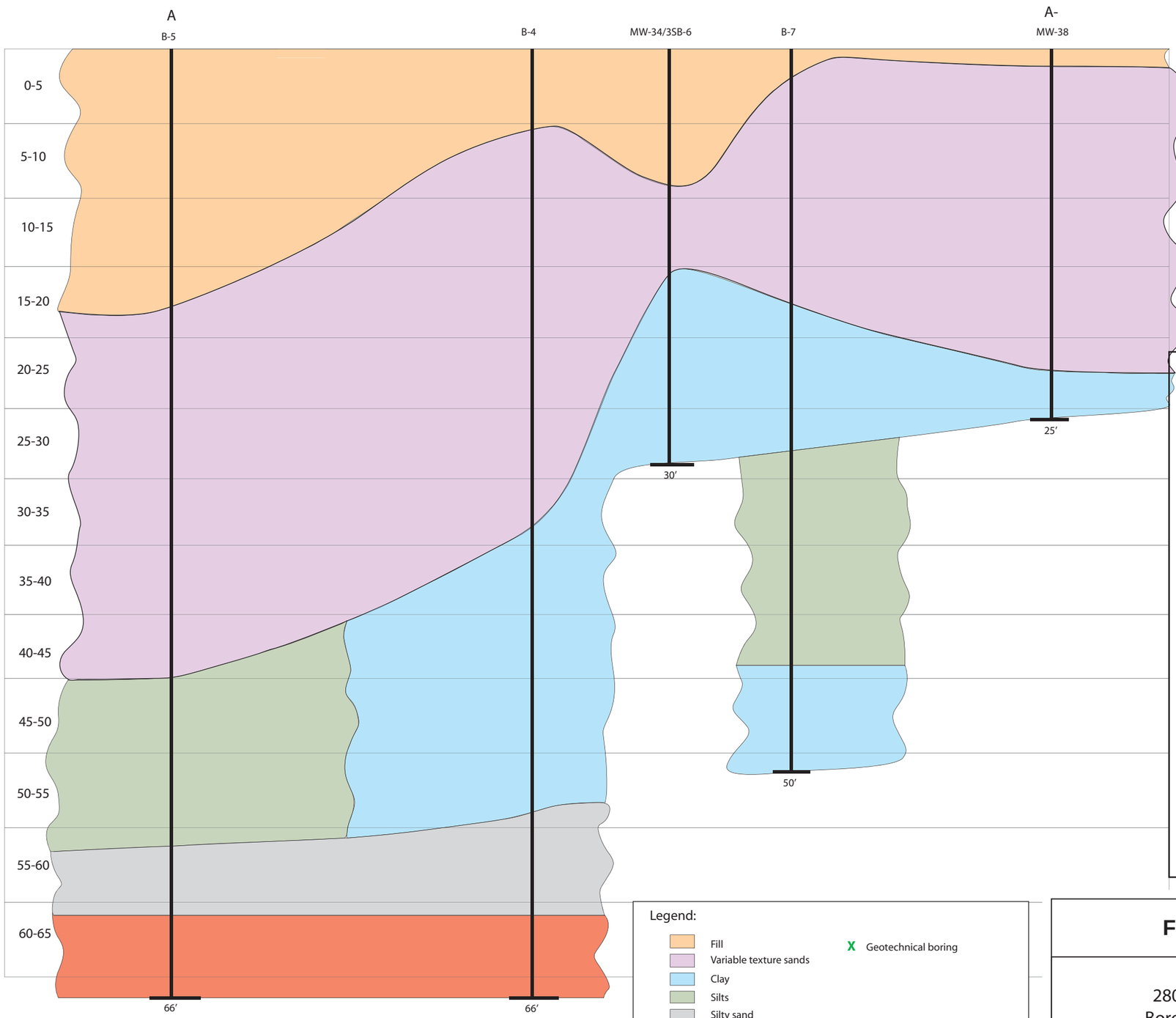
280 Franklin Street
Borough of Brooklyn
Kings County, New York

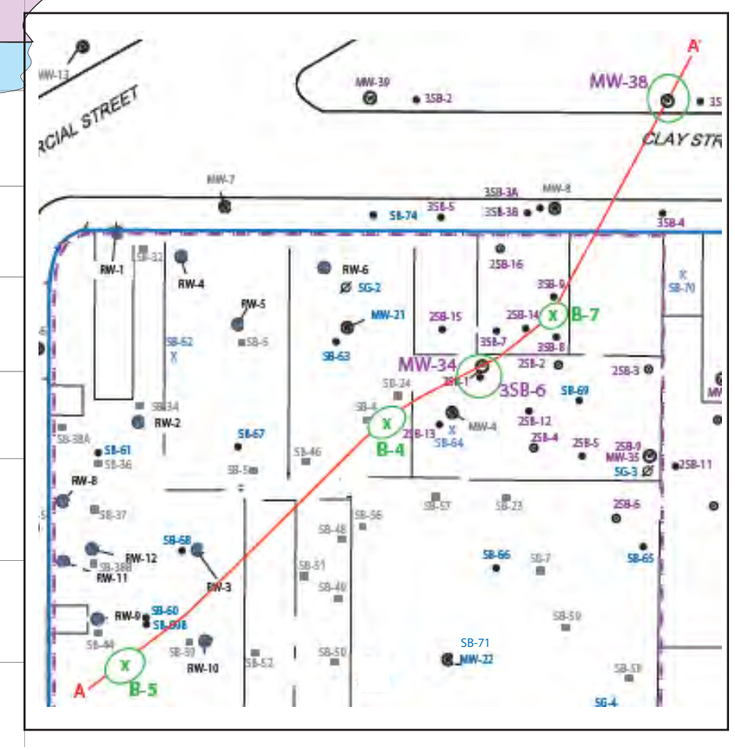
ESI File: SB09110.50

Scale as shown

July 2015

Appendix A





Legend:

- Fill
- Variable texture sands
- Clay
- Silts
- Silty sand
- Bedrock (gneiss)
- X Geotechnical boring

All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

Figure 4: Geological Cross Section

280 Franklin Street
Borough of Brooklyn
Kings County, New York

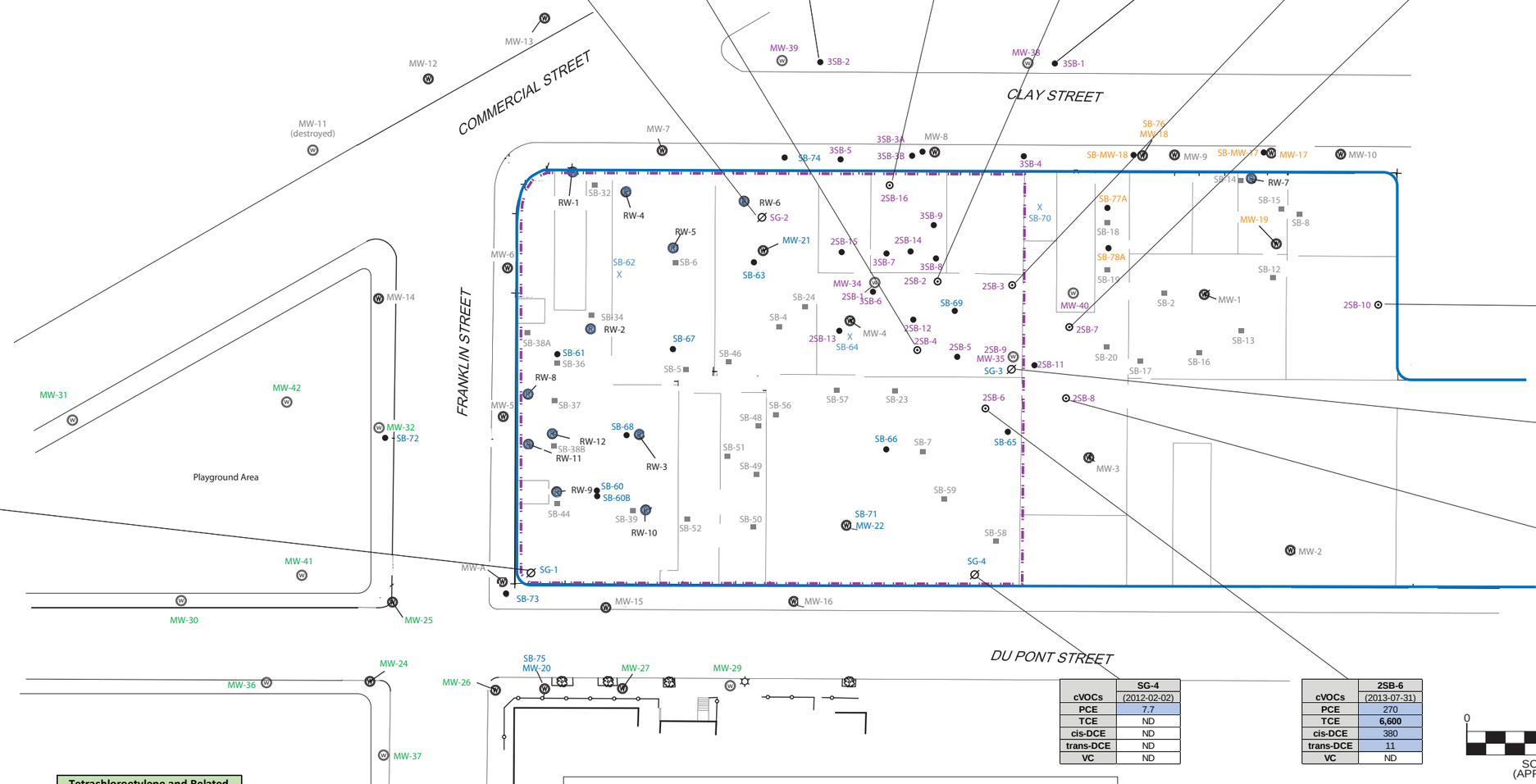
ESI File: SB09110.50

Not to scale

July 2015

Appendix A

Ecosystems Strategies, Inc.



cVOCs	SG-2 (2012-02-02)
PCE	5.5
TCE	59
cis-DCE	2.7
trans-DCE	ND
VC	ND

cVOCs	2SB-4 (2013-07-31)
PCE	540
TCE	12,000
cis-DCE	1,500
trans-DCE	11
VC	ND

cVOCs	3SB-2 (2013-12-04)
PCE	36
TCE	134
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	2SB-16 (2013-12-04)
PCE	ND
TCE	1,100
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	2SB-2 (2013-07-31)
PCE	1,000
TCE	33,000
cis-DCE	2,300
trans-DCE	69
VC	5.3

cVOCs	3SB-1 (2013-07-31)
PCE	102
TCE	6,130
cis-DCE	28.9
trans-DCE	ND
VC	ND

cVOCs	2SB-3 (2013-07-31)
PCE	2,500
TCE	43,000
cis-DCE	3,600
trans-DCE	120
VC	ND

cVOCs	2SB-7 (2013-07-31)
PCE	850
TCE	5,600
cis-DCE	570
trans-DCE	13
VC	ND

cVOCs	2SB-10 (2013-07-31)
PCE	ND
TCE	ND
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	SG-3 (2012-02-02)
PCE	830
TCE	35,000
cis-DCE	3,700
trans-DCE	110
VC	ND

cVOCs	SG-1 (2012-02-02)
PCE	19
TCE	ND
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	2SB-8 (2013-07-31)
PCE	700
TCE	14,000
cis-DCE	650
trans-DCE	ND
VC	190

cVOCs	SG-4 (2012-02-02)
PCE	7.7
TCE	ND
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	2SB-6 (2013-07-31)
PCE	270
TCE	6,600
cis-DCE	380
trans-DCE	11
VC	ND

Tetrachloroetylene and Related Compounds
Tetrachloroetylene (PCE)
Trichloroethylene (TCE)
cis-Dichlorethylene (cis-DCE)
trans-Dichlorethylene (trans-DCE)
Vinyl Chloride (VC)

Legend:

- Subject Property Border
- Registry Site Boundary
- Previous ASR Sample Locations
- ESI Soil Gas Sample Location
- ESI Boring Location with Soil Gas
- Recovery Well Location
- Monitoring Well Location
- ESI Sample Locations
- ESI Refusal Locations
- Previous Environmental Work (ASR), May-December 2006
- RIWP, IHWD Site (ESI), February -April 2012
- RIWP, Spill Site (ESI), February-April 2012
- Off-site LNAPL Investigation (ESI) July 2012-December 2014
- TCE Investigation (ESI), July 2013-September 2014

Detected Compound
ND - non-detect
Data in µg/m3

0 50 100
SCALE IN FEET (APPROXIMATELY)

N

Base map provided by Morris Associates P.L.L.C. da

Figure 5: TCE and Related Compounds in Soil Vapor

280 Franklin Street
Borough of Brooklyn
Kings County, New York

ESI File: SB09110.50

Scale as shown

July 2015

Appendix A

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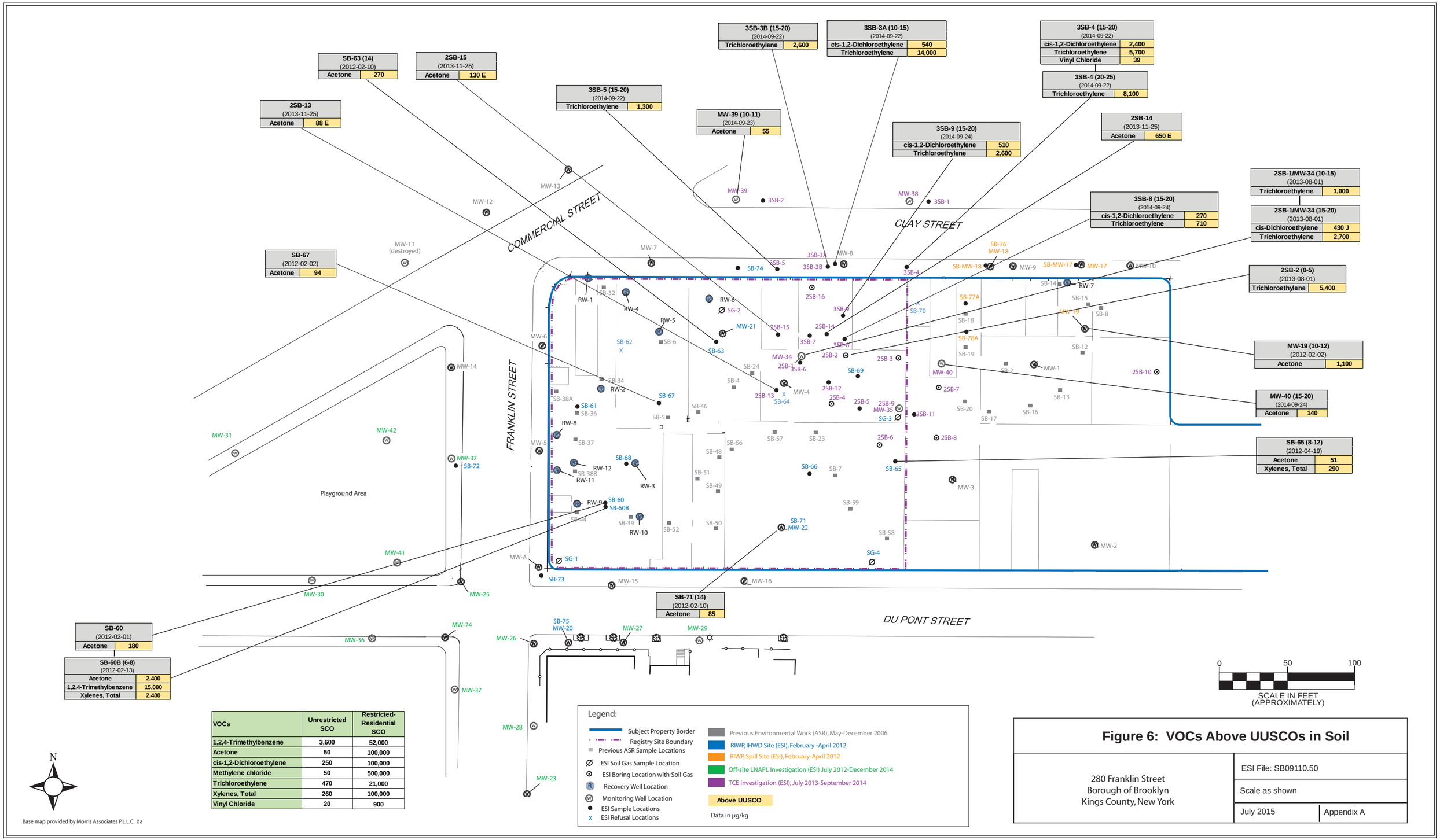


VOCs	Unrestricted SCO	Restricted-Residential SCO
1,2,4-Trimethylbenzene	3,600	52,000
Acetone	50	100,000
cis-1,2-Dichloroethylene	250	100,000
Methylene chloride	50	500,000
Trichloroethylene	470	21,000
Xylenes, Total	260	100,000
Vinyl Chloride	20	900

Figure 6: VOCs Above UUSCOs in Soil

280 Franklin Street
Borough of Brooklyn
Kings County, New York

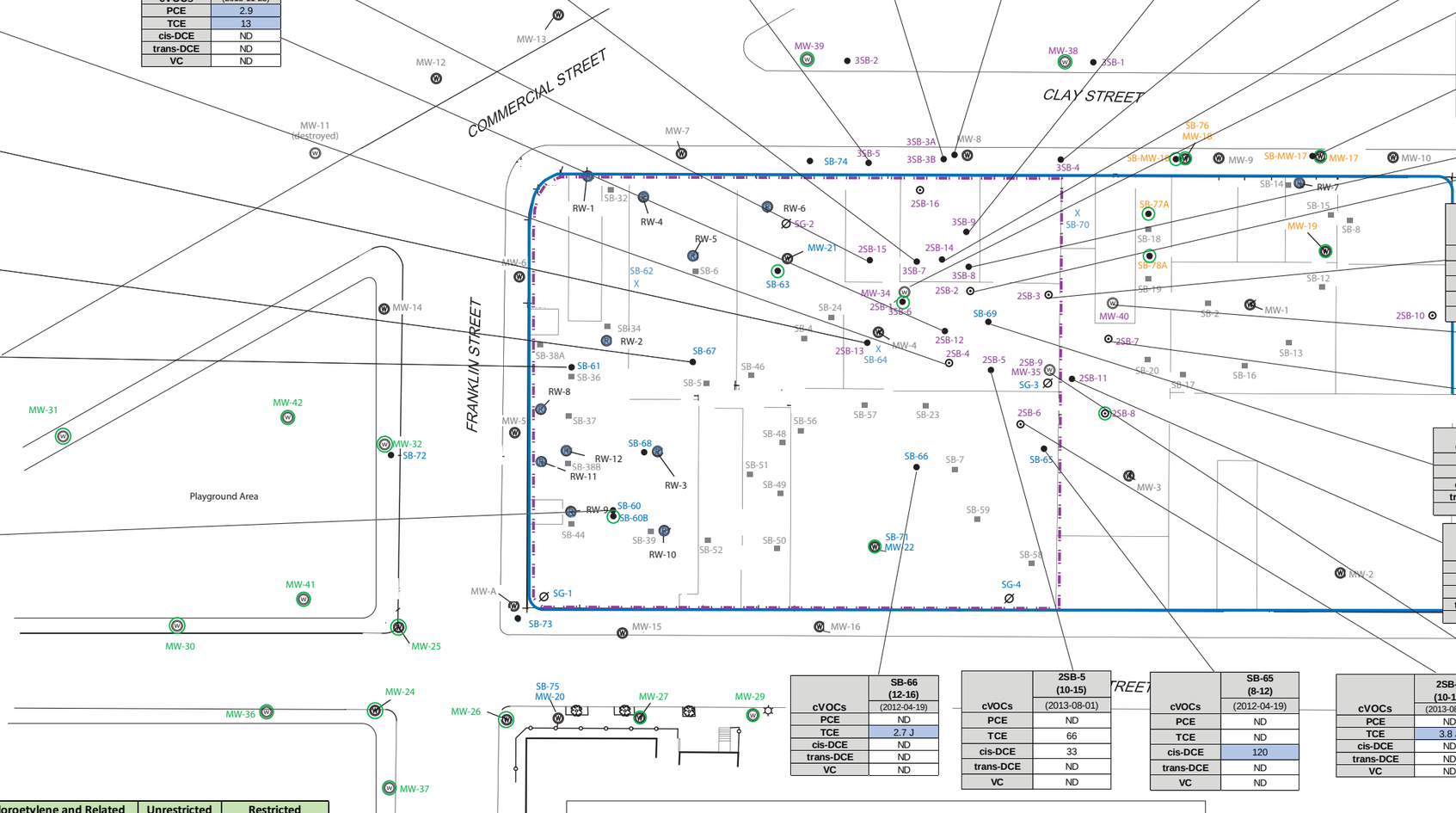
ESI File: SB09110.50

Scale as shown

July 2015

Appendix A

Ecosystems Strategies, Inc.



cVOCs	2SB-15 (2013-11-25)
PCE	7.5
TCE	110
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	3SB-7 (10-15) (2014-09-24)
PCE	ND
TCE	32
cis-DCE	14
trans-DCE	ND
VC	ND

cVOCs	3SB-5 (10-15) (2014-09-22)	3SB-5 (15-20) (2014-09-22)
PCE	ND	ND
TCE	99	1,300
cis-DCE	13	21
trans-DCE	ND	ND
VC	ND	ND

cVOCs	3SB-3B (15-20) (2014-09-22)
PCE	ND
TCE	2,600
cis-DCE	19
trans-DCE	ND
VC	ND

cVOCs	3SB-3A (0-5) (2014-09-22)	3SB-3A (10-15) (2014-09-22)
PCE	ND	ND
TCE	12	14,000
cis-DCE	ND	540
trans-DCE	ND	ND
VC	ND	ND

cVOCs	3SB-9 (15-20) (2014-09-24)	3SB-9 (20-25) (2014-09-24)
PCE	31	ND
TCE	2,600	6.2
cis-DCE	510	ND
trans-DCE	2.7	ND
VC	10	ND

cVOCs	3SB-4 (15-20) (2014-09-22)	3SB-4 (20-25) (2014-09-22)
PCE	ND	ND
TCE	5,700	8,100
cis-DCE	2,400	76
trans-DCE	ND	ND
VC	39	ND

cVOCs	2SB-14 (2013-11-25)
PCE	ND
TCE	26
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	2SB-1/MW-34 (10-15) (2013-08-01)	2SB-1/MW-34 (15-20) (2013-08-01)
PCE	ND	3.2 J
TCE	1,000	2,700
cis-DCE	96	430 J
trans-DCE	ND	ND
VC	ND	6.2

cVOCs	2SB-4 (0-5) (2013-08-01)	2SB-4 (10-15) (2013-08-01)
PCE	ND	ND
TCE	26	190
cis-DCE	ND	100
trans-DCE	ND	ND
VC	ND	ND

cVOCs	2SB-12 (2013-11-25)
PCE	2.9
TCE	13
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	SB-MW-17 (12-16) (2012-04-19)
PCE	ND
TCE	2.4 J
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	3SB-8 (0-5) (2014-09-24)	3SB-8 (15-20) (2014-09-24)
PCE	ND	2.6
TCE	14	710
cis-DCE	ND	270
trans-DCE	ND	ND
VC	ND	ND

cVOCs	2SB-13 (2013-11-25)
PCE	11
TCE	56
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	2SB-2 (0-5) (2013-08-01)	2SB-2 (10-15) (2013-08-01)
PCE	20	ND
TCE	5,400	100
cis-DCE	23	21
trans-DCE	ND	ND
VC	ND	ND

cVOCs	SB-67 (2012-02-02)
PCE	3.5 J
TCE	10
cis-DCE	1.8 J
trans-DCE	ND
VC	ND

cVOCs	2SB-3 (10-15) (2013-08-01)
PCE	ND
TCE	77
cis-DCE	15
trans-DCE	ND
VC	ND

cVOCs	SB-61 (2012-02-01)
PCE	ND
TCE	16 J
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	MW-40 (0-5) (2014-09-24)	MW-40 (15-20) (2014-09-24)
PCE	ND	ND
TCE	7.6	56
cis-DCE	ND	ND
trans-DCE	ND	ND
VC	ND	ND

cVOCs	2SB-7 (10-15) (2013-08-01)
PCE	ND
TCE	4.1 J
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	SB-69 (2012-02-01)
PCE	ND
TCE	1.9 J
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	SB-60 (2012-02-01)
PCE	9.3 J
TCE	26 J
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	2SB-11 (10-15) (2013-08-01)
PCE	ND
TCE	5.5
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	2SB-9/MW-35 (0-5) (2013-08-01)	2SB-9/MW-35 (10-15) (2013-08-01)
PCE	ND	ND
TCE	7.4	33
cis-DCE	ND	6.9
trans-DCE	ND	ND
VC	ND	ND

cVOCs	SB-66 (12-16) (2012-04-19)
PCE	ND
TCE	2.7 J
cis-DCE	ND
trans-DCE	ND
VC	ND

cVOCs	2SB-5 (10-15) (2013-08-01)
PCE	ND
TCE	66
cis-DCE	33
trans-DCE	ND
VC	ND

cVOCs	SB-65 (8-12) (2012-04-19)
PCE	ND
TCE	ND
cis-DCE	120
trans-DCE	ND
VC	ND

cVOCs	2SB-6 (10-15) (2013-08-01)
PCE	ND
TCE	3.8 J
cis-DCE	ND
trans-DCE	ND
VC	ND

0 50 100

SCALE IN FEET (APPROXIMATELY)

Tetrachloroetylene and Related Compounds	Unrestricted SCOs	Restricted Residential SCOs
Tetrachloroetylene (PCE)	1,300	19,000
Trichloroethylene (TCE)	470	21,000
cis-Dichlorethylene (cis-DCE)	250	100,000
trans-Dichlorethylene (trans-DCE)	190	100,000
Vinyl Chloride (VC)	20	900

Legend:

- Subject Property Border
- Registry Site Boundary
- Previous ASR Sample Locations
- ESI Soil Gas Sample Location
- ESI Boring Location with Soil Gas
- Recovery Well Location
- Monitoring Well Location
- ESI Sample Locations
- ESI Refusal Locations

- Previous Environmental Work (ASR), May-December 2006
- RIWP, IHWD Site (ESI), February -April 2012
- RIWP, Spill Site (ESI), February-April 2012
- Off-site LNAPL Investigation (ESI) July 2012-December 2014
- TCE Investigation (ESI), July 2013-September 2014

ND - non-detect
all compounds are non-detect
Data in µg/kg

Below UUSCO
Above UUSCO
Above RRUSCO

Base map provided by Morris Associates P.L.L.C. da

Figure 7: TCE and Related Compounds in Soil

280 Franklin Street
Borough of Brooklyn
Kings County, New York

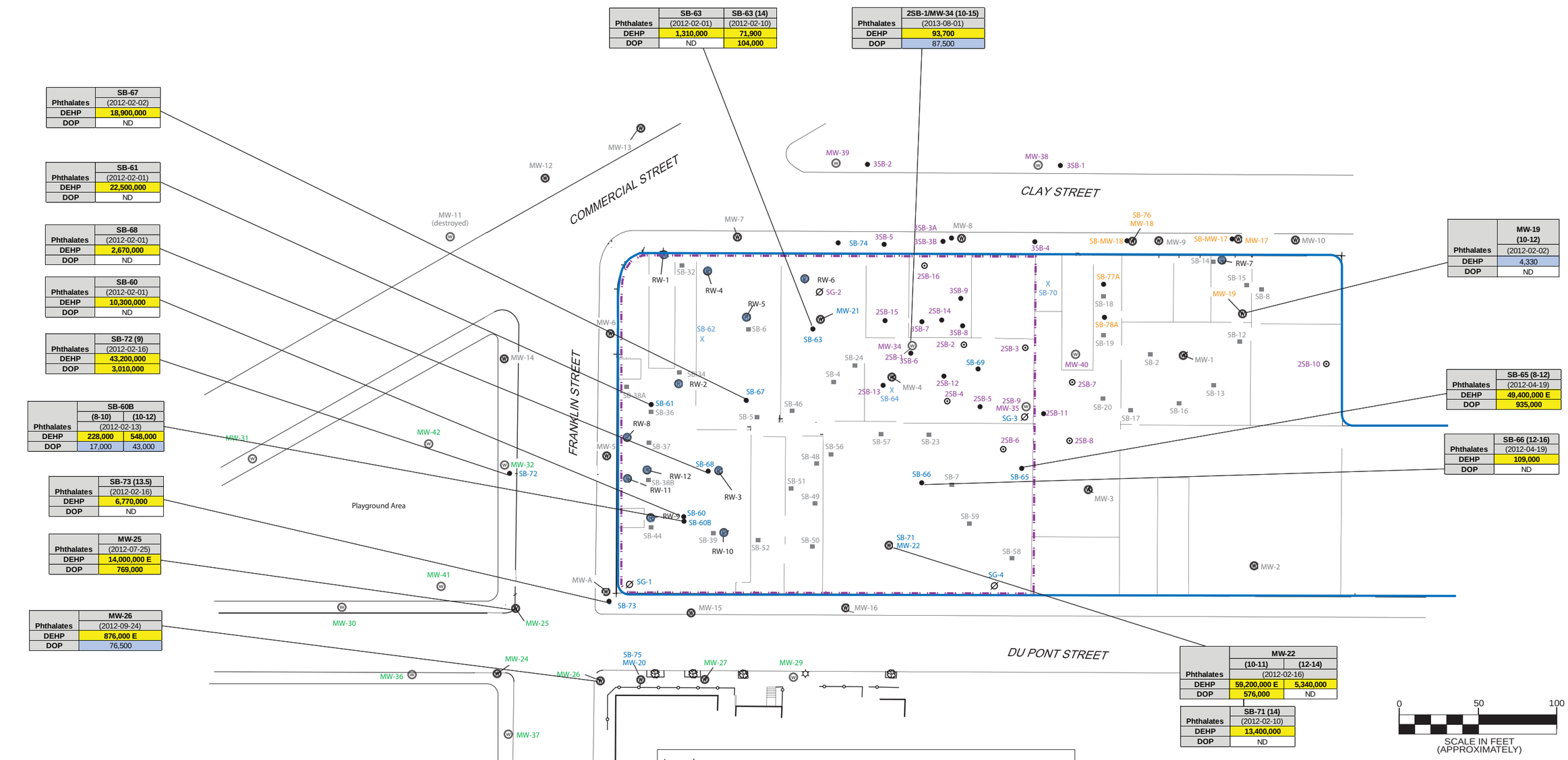
ESI File: SB09110.50

Scale as shown

July 2015

Appendix A

Ecosystems Strategies, Inc.



Phthalates	SB-63 (2012-02-01)	SB-63 (14) (2012-02-10)
DEHP	1,310,000	71,900
DOP	ND	104,000

Phthalates	2SB-1/MW-34 (10-15) (2013-08-01)
DEHP	93,700
DOP	87,500

Phthalates	SB-67 (2012-02-02)
DEHP	18,900,000
DOP	ND

Phthalates	SB-61 (2012-02-01)
DEHP	22,500,000
DOP	ND

Phthalates	SB-68 (2012-02-01)
DEHP	2,670,000
DOP	ND

Phthalates	SB-60 (2012-02-01)
DEHP	10,300,000
DOP	ND

Phthalates	SB-72 (9) (2012-02-16)
DEHP	43,200,000
DOP	3,010,000

Phthalates	SB-60B (2012-02-13)	
	(8-10)	(10-12)
DEHP	228,000	548,000
DOP	17,000	43,000

Phthalates	SB-73 (13.5) (2012-02-16)
DEHP	6,770,000
DOP	ND

Phthalates	MW-25 (2012-07-25)
DEHP	14,000,000 E
DOP	769,000

Phthalates	MW-26 (2012-09-24)
DEHP	876,000 E
DOP	76,500

Phthalates	MW-19 (10-12) (2012-02-02)
DEHP	4,330
DOP	ND

Phthalates	SB-65 (8-12) (2012-04-19)
DEHP	49,400,000 E
DOP	935,000

Phthalates	SB-66 (12-16) (2012-04-19)
DEHP	109,000
DOP	ND

Phthalates	MW-22 (2012-02-16)	
	(10-11)	(12-14)
DEHP	59,200,000 E	5,340,000
DOP	576,000	ND

Phthalates	SB-71 (14) (2012-02-10)
DEHP	13,400,000
DOP	ND

Restricted Residential Use RRUSCOs (*unrestricted use SCOs not established*) (NYSDEC CP-51 Table 1)	
Bis(2-ethylhexyl)phthalate (DEHP)	50,000
Di-n-octyl phthalate (DOP)	100,000

Figure 8: Phthalates Above RRUSCOs in Soil

280 Franklin Street
Borough of Brooklyn
Kings County, New York

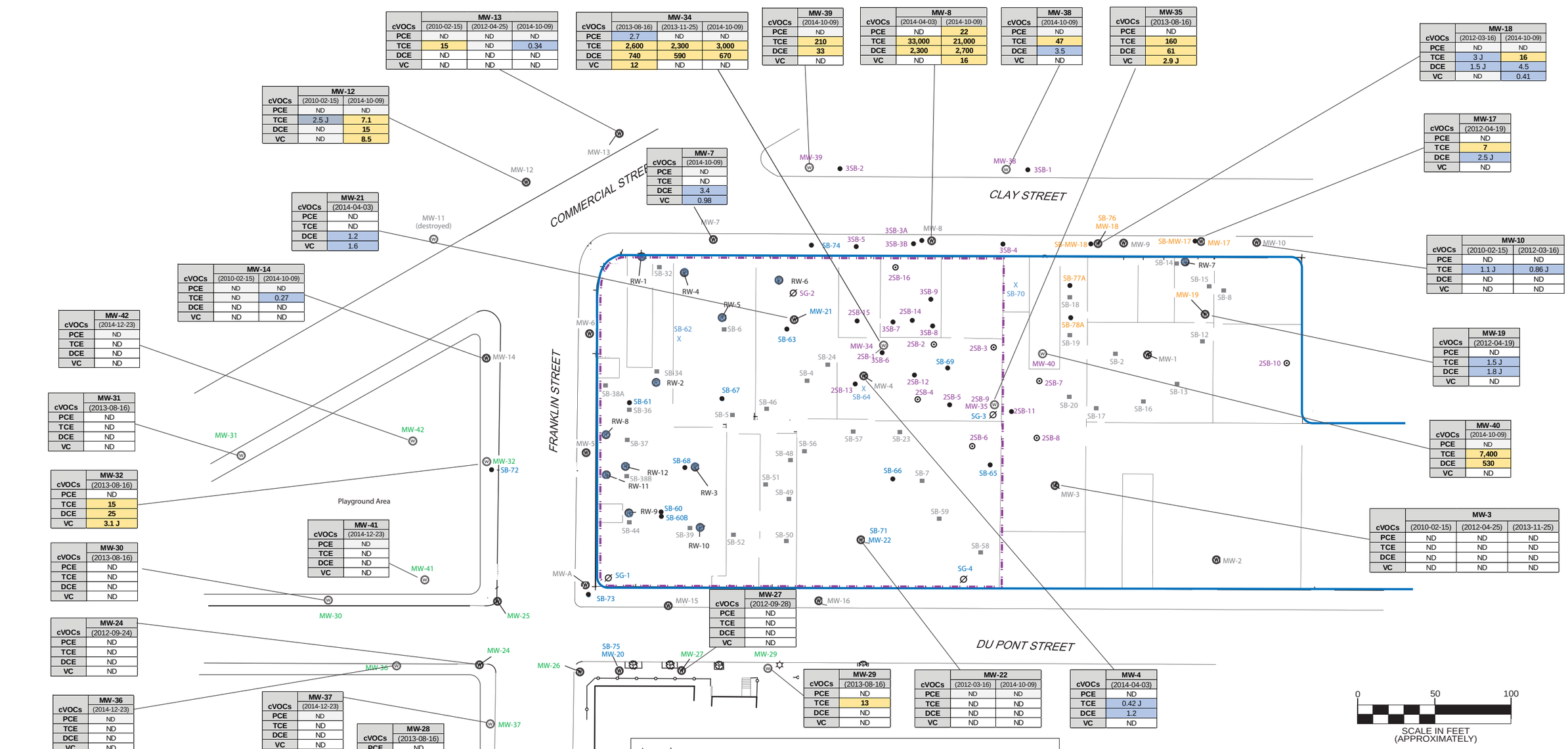
ESI File: SB09110.50

Scale as shown

July 2015

Appendix A

Ecosystems Strategies, Inc.



cVOCs	MW-13 (2010-02-15)	MW-13 (2012-04-25)	MW-13 (2014-10-09)
PCE	ND	ND	ND
TCE	15	ND	0.34
DCE	ND	ND	ND
VC	ND	ND	ND

cVOCs	MW-34 (2013-08-16)	MW-34 (2013-11-25)	MW-34 (2014-10-09)
PCE	2.7	ND	ND
TCE	2,600	2,300	3,000
DCE	740	590	670
VC	12	ND	ND

cVOCs	MW-39 (2014-10-09)
PCE	ND
TCE	210
DCE	33
VC	ND

cVOCs	MW-8 (2014-04-03)	MW-8 (2014-10-09)
PCE	ND	22
TCE	33,000	21,000
DCE	2,300	2,700
VC	ND	16

cVOCs	MW-38 (2014-10-09)
PCE	ND
TCE	47
DCE	3.5
VC	ND

cVOCs	MW-35 (2013-08-16)
PCE	ND
TCE	160
DCE	61
VC	2.9 J

cVOCs	MW-18 (2012-03-16)	MW-18 (2014-10-09)
PCE	ND	ND
TCE	3 J	16
DCE	1.5 J	4.5
VC	ND	0.41

cVOCs	MW-12 (2010-02-15)	MW-12 (2014-10-09)
PCE	ND	ND
TCE	2.5 J	7.1
DCE	ND	15
VC	ND	8.5

cVOCs	MW-17 (2012-04-19)
PCE	ND
TCE	7
DCE	2.5 J
VC	ND

cVOCs	MW-7 (2014-10-09)
PCE	ND
TCE	ND
DCE	3.4
VC	0.98

cVOCs	MW-21 (2014-04-03)
PCE	ND
TCE	ND
DCE	1.2
VC	1.6

cVOCs	MW-10 (2010-02-15)	MW-10 (2012-03-16)
PCE	ND	ND
TCE	1.1 J	0.86 J
DCE	ND	ND
VC	ND	ND

cVOCs	MW-14 (2010-02-15)	MW-14 (2014-10-09)
PCE	ND	ND
TCE	ND	0.27
DCE	ND	ND
VC	ND	ND

cVOCs	MW-42 (2014-12-23)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-19 (2012-04-19)
PCE	ND
TCE	1.5 J
DCE	1.8 J
VC	ND

cVOCs	MW-31 (2013-08-16)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-40 (2014-10-09)
PCE	ND
TCE	7,400
DCE	530
VC	ND

cVOCs	MW-32 (2013-08-16)
PCE	ND
TCE	15
DCE	25
VC	3.1 J

cVOCs	MW-3 (2010-02-15)	MW-3 (2012-04-25)	MW-3 (2013-11-25)
PCE	ND	ND	ND
TCE	ND	ND	ND
DCE	ND	ND	ND
VC	ND	ND	ND

cVOCs	MW-41 (2014-12-23)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-30 (2013-08-16)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-27 (2012-09-28)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-24 (2012-09-24)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-29 (2013-08-16)
PCE	ND
TCE	13
DCE	ND
VC	ND

cVOCs	MW-22 (2012-03-16)	MW-22 (2014-10-09)
PCE	ND	ND
TCE	ND	ND
DCE	ND	ND
VC	ND	ND

cVOCs	MW-4 (2014-04-03)
PCE	ND
TCE	0.42 J
DCE	1.2
VC	ND

cVOCs	MW-36 (2014-12-23)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-37 (2014-12-23)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-28 (2013-08-16)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-23 (2012-09-24)
PCE	ND
TCE	ND
DCE	ND
VC	ND

Guidance Levels (NYSDEC TOGS 1.1.1)	
Tetrachloroetylene (PCE)	5
Trichloroethylene (TCE)	5
Dichlorethylene (DCE)	5
Vinyl Chloride (VC)	2

Legend:

- Subject Property Border
- Registry Site Boundary
- Previous ASR Sample Locations
- ESI Soil Gas Sample Location
- ESI Boring Location with Soil Gas
- Recovery Well Location
- Monitoring Well Location
- ESI Sample Locations
- ESI Refusal Locations
- Previous Environmental Work (ASR), May-December 2006
- RIWP, IHWD Site (ESI), February -April 2012
- RIWP, Spill Site (ESI), February-April 2012
- Off-site LNAPL Investigation (ESI) July 2012-December 2014
- TCE Investigation (ESI), July 2013-September 2014

ND - non-detect
Data in µg/L

Below Guidance Level
Above Guidance Level

0 50 100
SCALE IN FEET (APPROXIMATELY)

N

Base map provided by Morris Associates P.L.L.C. da

Figure 9: TCE and Related Compounds in Groundwater

280 Franklin Street
Borough of Brooklyn
Kings County, New York

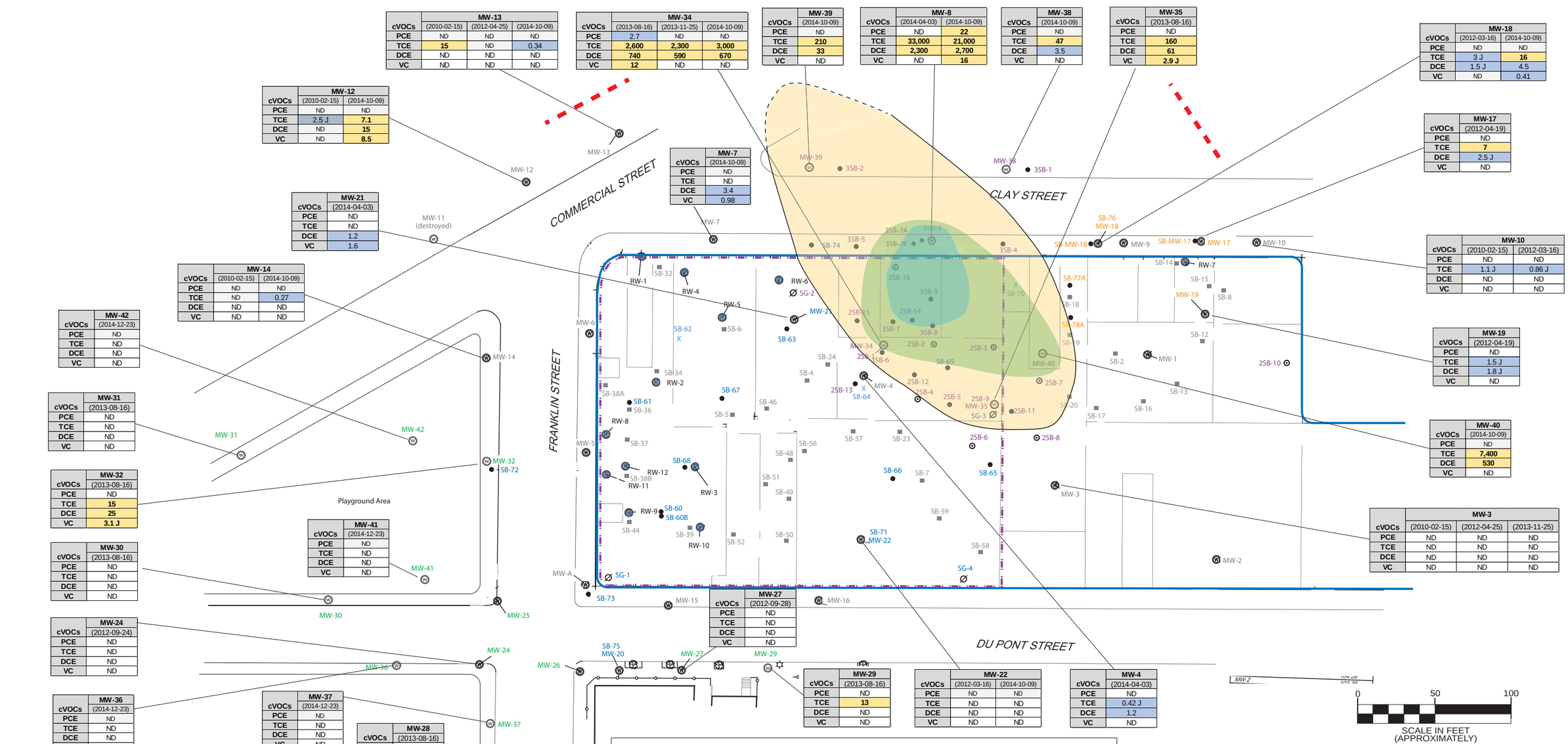
ESI File: SB09110.50

Scale as shown

July 2015

Appendix A

Ecosystems Strategies, Inc.



cVOCs	MW-13 (2010-02-15)	MW-13 (2012-04-25)	MW-13 (2014-10-09)
PCE	ND	ND	ND
TCE	15	ND	0.34
DCE	ND	ND	ND
VC	ND	ND	ND

cVOCs	MW-34 (2013-08-16)	MW-34 (2013-11-25)	MW-34 (2014-10-09)
PCE	2.7	ND	ND
TCE	2,600	2,300	3,000
DCE	740	590	670
VC	12	ND	ND

cVOCs	MW-39 (2014-10-09)
PCE	ND
TCE	210
DCE	33
VC	ND

cVOCs	MW-8 (2014-04-03)	MW-8 (2014-10-09)
PCE	ND	22
TCE	33,000	21,000
DCE	2,300	2,700
VC	ND	16

cVOCs	MW-38 (2014-10-09)
PCE	ND
TCE	47
DCE	3.5
VC	ND

cVOCs	MW-35 (2013-08-16)
PCE	ND
TCE	160
DCE	61
VC	2.9 J

cVOCs	MW-18 (2012-03-16)	MW-18 (2014-10-09)
PCE	ND	ND
TCE	3 J	16
DCE	1.5 J	4.5
VC	ND	0.41

cVOCs	MW-12 (2010-02-15)	MW-12 (2014-10-09)
PCE	ND	ND
TCE	2.5 J	7.1
DCE	ND	15
VC	ND	8.5

cVOCs	MW-17 (2012-04-19)
PCE	ND
TCE	7
DCE	2.5 J
VC	ND

cVOCs	MW-7 (2014-10-09)
PCE	ND
TCE	ND
DCE	3.4
VC	0.98

cVOCs	MW-21 (2014-04-03)
PCE	ND
TCE	ND
DCE	1.2
VC	1.6

cVOCs	MW-10 (2010-02-15)	MW-10 (2012-03-16)
PCE	ND	ND
TCE	1.1 J	0.86 J
DCE	ND	ND
VC	ND	ND

cVOCs	MW-14 (2010-02-15)	MW-14 (2014-10-09)
PCE	ND	ND
TCE	ND	0.27
DCE	ND	ND
VC	ND	ND

cVOCs	MW-42 (2014-12-23)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-19 (2012-04-19)
PCE	ND
TCE	1.5 J
DCE	1.8 J
VC	ND

cVOCs	MW-31 (2013-08-16)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-40 (2014-10-09)
PCE	ND
TCE	7,400
DCE	530
VC	ND

cVOCs	MW-32 (2013-08-16)
PCE	ND
TCE	15
DCE	25
VC	3.1 J

cVOCs	MW-3 (2010-02-15)	MW-3 (2012-04-25)	MW-3 (2013-11-25)
PCE	ND	ND	ND
TCE	ND	ND	ND
DCE	ND	ND	ND
VC	ND	ND	ND

cVOCs	MW-41 (2014-12-23)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-30 (2013-08-16)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-27 (2012-09-28)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-24 (2012-09-24)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-29 (2013-08-16)
PCE	ND
TCE	13
DCE	ND
VC	ND

cVOCs	MW-22 (2012-03-16)	MW-22 (2014-10-09)
PCE	ND	ND
TCE	ND	ND
DCE	ND	ND
VC	ND	ND

cVOCs	MW-4 (2014-04-03)
PCE	ND
TCE	0.42 J
DCE	1.2
VC	ND

cVOCs	MW-36 (2014-12-23)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-37 (2014-12-23)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-28 (2013-08-16)
PCE	ND
TCE	ND
DCE	ND
VC	ND

cVOCs	MW-23 (2012-09-24)
PCE	ND
TCE	ND
DCE	ND
VC	ND

Guidance Levels (NYSDEC TOGS 1.1.1)	
Tetrachloroetylene (PCE)	5
Trichloroethylene (TCE)	5
Dichlorethylene (DCE)	5
Vinyl Chloride (VC)	2

Legend:

- Subject Property Border
- Registry Site Boundary
- Previous ASR Sample Locations
- ESI Soil Gas Sample Location
- ESI Boring Location with Soil Gas
- Recovery Well Location
- Monitoring Well Location
- ESI Sample Locations
- ESI Refusal Locations
- Previous Environmental Work (ASR), May-December 2006
- RIWP, IHWD Site (ESI), February -April 2012
- RIWP, Spill Site (ESI), February-April 2012
- Off-site LNAPL Investigation (ESI) July 2012-December 2014
- TCE Investigation (ESI), July 2013-September 2014
- 100≤TCE<1,000
- 1,000≤TCE<10,000
- 10,000 ≤ TCE

ND - non-detect
Data in µg/L

Below Guidance Level
Above Guidance Level

Base map provided by Morris Associates P.L.L.C. da

Figure 10: TCE Isoconcentrations in Groundwater

280 Franklin Street
Borough of Brooklyn
Kings County, New York

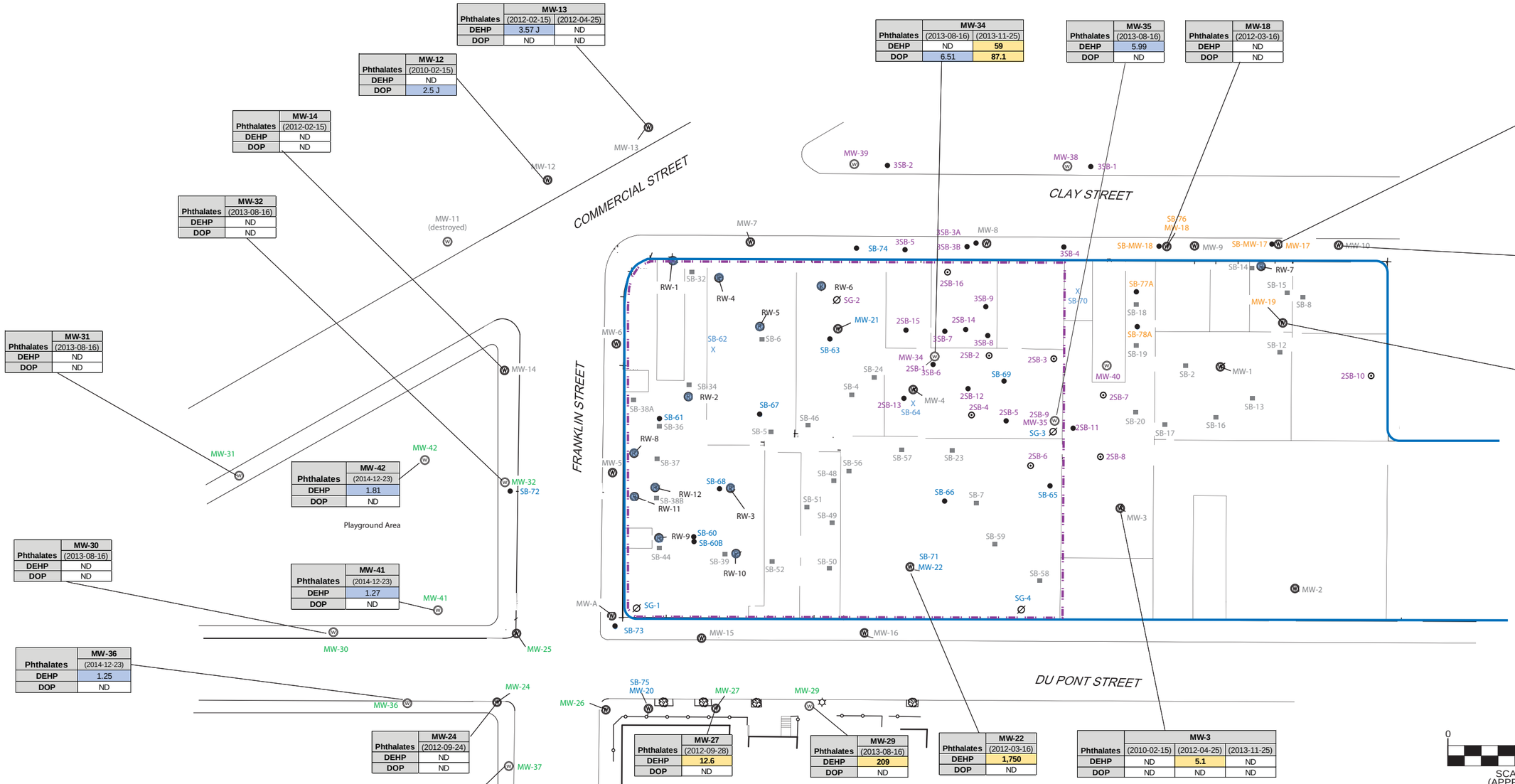
ESI File: SB09110.50

Scale as shown

July 2015

Appendix A

Ecosystems Strategies, Inc.



Phthalates	MW-13 (2012-02-15)	MW-13 (2012-04-25)
DEHP	3.57 J	ND
DOP	ND	ND

Phthalates	MW-12 (2010-02-15)
DEHP	ND
DOP	2.5 J

Phthalates	MW-14 (2012-02-15)
DEHP	ND
DOP	ND

Phthalates	MW-32 (2013-08-16)
DEHP	ND
DOP	ND

Phthalates	MW-31 (2013-08-16)
DEHP	ND
DOP	ND

Phthalates	MW-42 (2014-12-23)
DEHP	1.81
DOP	ND

Phthalates	MW-30 (2013-08-16)
DEHP	ND
DOP	ND

Phthalates	MW-41 (2014-12-23)
DEHP	1.27
DOP	ND

Phthalates	MW-36 (2014-12-23)
DEHP	1.25
DOP	ND

Phthalates	MW-24 (2012-09-24)
DEHP	ND
DOP	ND

Phthalates	MW-37 (2014-12-23)
DEHP	15
DOP	ND

Phthalates	MW-28 (2013-08-16)
DEHP	ND
DOP	ND

Phthalates	MW-23 (2012-09-24)
DEHP	9.55
DOP	ND

Phthalates	MW-34 (2013-08-16)	MW-34 (2013-11-25)
DEHP	ND	59
DOP	6.51	87.1

Phthalates	MW-35 (2013-08-16)
DEHP	5.99
DOP	ND

Phthalates	MW-18 (2012-03-16)
DEHP	ND
DOP	ND

Phthalates	MW-17 (2012-04-19)
DEHP	10.8
DOP	ND

Phthalates	MW-10 (2010-02-15)	MW-10 (2012-03-16)
DEHP	ND	12.5
DOP	ND	ND

Phthalates	MW-19 (2012-04-19)
DEHP	39.6
DOP	ND

Phthalates	MW-27 (2012-09-28)
DEHP	12.6
DOP	ND

Phthalates	MW-29 (2013-08-16)
DEHP	209
DOP	ND

Phthalates	MW-22 (2012-03-16)
DEHP	1,750
DOP	ND

Phthalates	MW-3 (2010-02-15)	MW-3 (2012-04-25)	MW-3 (2013-11-25)
DEHP	ND	5.1	ND
DOP	ND	ND	ND

Guidance Levels (NYSDEC TOGS 1.1.1)	
Bis(2-ethylhexyl)phthalate (DEHP)	5
Di-n-octyl phthalate (DOP)	50

Base map provided by Morris Associates P.L.L.C. da

Figure 11: Phthalates in Groundwater

280 Franklin Street
Borough of Brooklyn
Kings County, New York

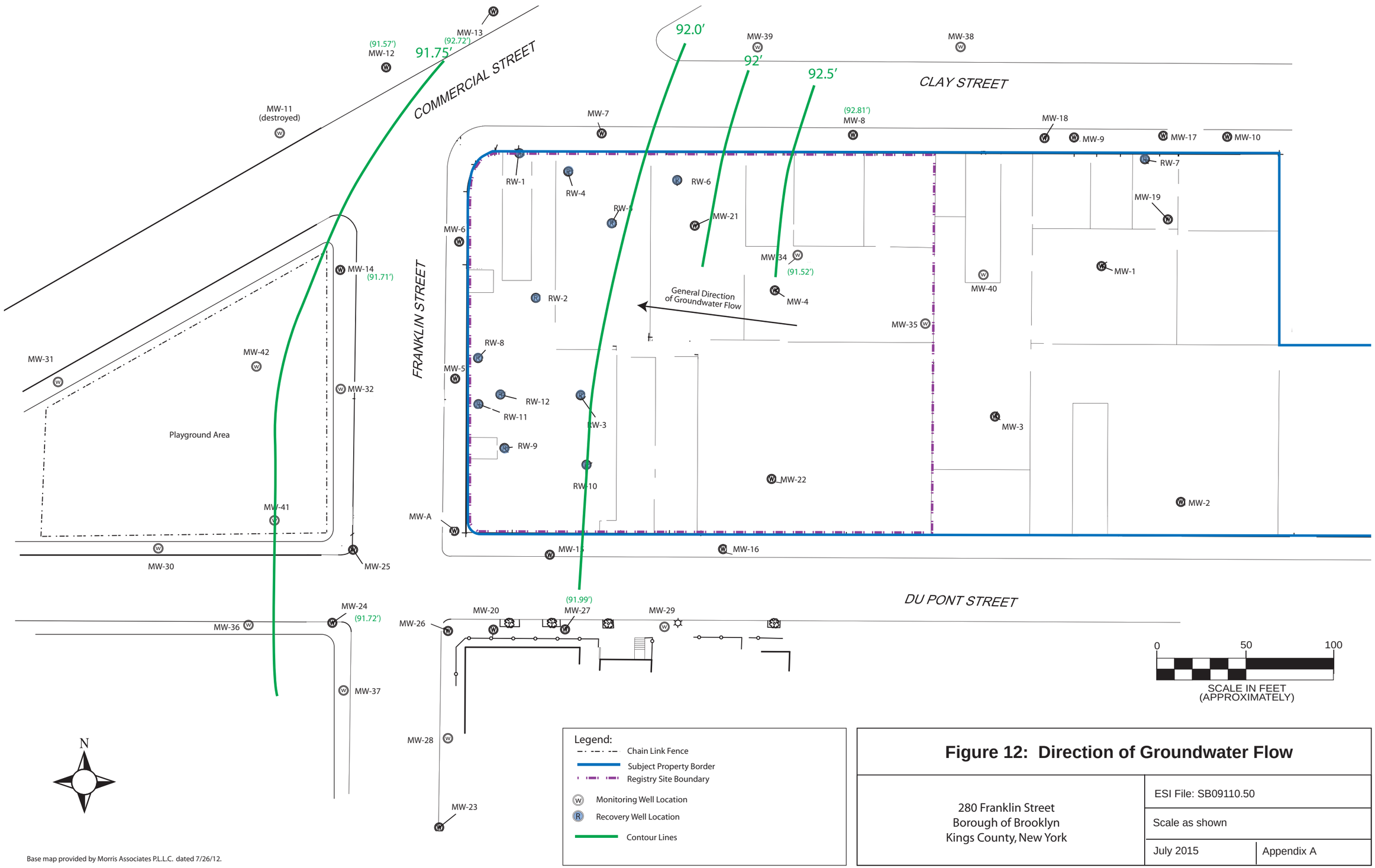
ESI File: SB09110.50

Scale as shown

July 2015

Appendix A

Ecosystems Strategies, Inc.



Base map provided by Morris Associates P.L.L.C. dated 7/26/12.

Figure 12: Direction of Groundwater Flow

280 Franklin Street
Borough of Brooklyn
Kings County, New York

ESI File: SB09110.50

Scale as shown

July 2015

Appendix A

Ecosystems Strategies, Inc.

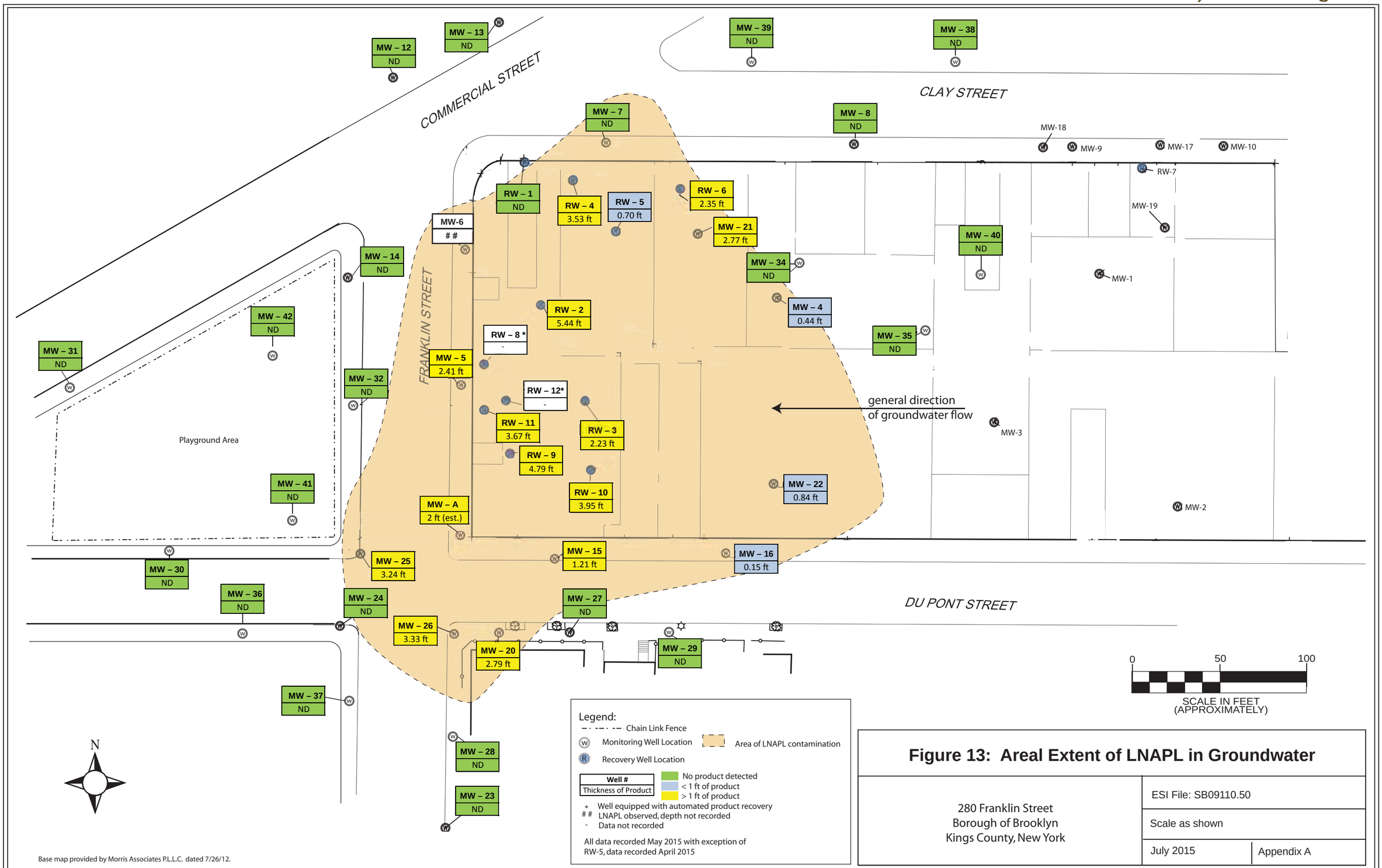


Figure 13: Areal Extent of LNAPL in Groundwater

280 Franklin Street
Borough of Brooklyn
Kings County, New York

ESI File: SB09110.50

Scale as shown

July 2015

Appendix A

APPENDIX B

Data Tables

Table 1: Soil Vapor - VOCs

Data in µg/m^3

Concentrations ≥1000 shown in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs	SG-1 (2012-02-02)			SG-2 (2012-02-02)			SG-3 (2012-02-02)			SG-4 (2012-02-02)		
(USEPA Method TO-15)	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1-Trichloroethane (TCA)	ND		1.9	92		1.8	150		9.7	ND		2
1,1,2,2-Tetrachloroethane	ND		2.4	ND		2.3	ND		12	ND		2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	4.5		2.6	ND		2.6	ND		14	ND		2.8
1,1,2-Trichloroethane	ND		1.9	ND		1.8	ND		9.7	ND		2
1,1-Dichloroethane	ND		1.4	ND		1.4	ND		7.2	ND		1.5
1,1-Dichloroethylene	ND		1.4	ND		1.3	36		7.1	ND		1.4
1,2,4-Trichlorobenzene	ND		2.5	ND		2.5	ND		13	ND		2.7
1,2,4-Trimethylbenzene	18		8.4	18		8.3	ND		44	20		9
1,2-Dibromoethane	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,2-Dichlorobenzene	ND		2.1	ND		2	ND		11	ND		2.2
1,2-Dichloroethane	ND		1.4	ND		1.4	ND		7.2	ND		1.5
1,2-Dichloropropane	ND		1.6	ND		1.6	ND		8.2	ND		1.7
1,2-Dichlorotetrafluoroethane	ND		2.4	ND		2.4	ND		12	ND		2.6
1,3,5-Trimethylbenzene	4.6		3.4	5.1		3.3	ND		18	5.7		3.6
1,3-Butadiene	ND		1.5	12		1.5	ND		7.7	ND		1.6
1,3-Dichlorobenzene	ND		2.1	ND		2	ND		11	ND		2.2
1,4-Dichlorobenzene	ND		2.1	ND		2	ND		11	ND		2.2
1,4-Dioxane	ND		12	ND		12	ND		64	ND		13
2,2,4-Trimethylpentane	ND		1.6	ND		1.6	ND		8.3	ND		1.7
2-Butanone (MEK)	25		1	36		0.99	ND		5.2	59		1.1
2-Hexanone	ND		2.8	ND		2.8	ND		15	53		3
3-Chloropropene	ND		11	ND		11	ND		56	ND		11
4-Methyl-2-pentanone	60		1.4	180		1.4	330		7.3	77		1.5
Acetone	130		0.81	110		0.8	130		4.2	150		0.87
Benzene	8.5		1.1	8.3		1.1	ND		5.7	11		1.2
Benzyl chloride	ND		1.8	ND		1.7	ND		9.2	ND		1.9
Bromodichloromethane	ND		2.1	ND		2.1	ND		11	ND		2.3
Bromoform	ND		3.5	ND		3.5	ND		18	ND		3.8
Bromomethane	ND		1.3	ND		1.3	ND		6.9	ND		1.4
Carbon disulfide	7.9		1.1	21		1.1	ND		5.5	20		1.1
Carbon tetrachloride	ND		1.1	ND		1.1	ND		5.6	ND		1.1
Chlorobenzene	ND		1.6	ND		1.6	ND		8.2	ND		1.7
Chloroethane	ND		0.9	ND		0.89	ND		4.7	ND		0.96
Chloroform	9.2		1.7	5.9		1.6	52		8.7	ND		1.8
Chloromethane	ND		0.71	ND		0.7	ND		3.7	ND		0.75
cis-1,2-Dichloroethylene (DCE)	ND		1.4	2.7		1.3	**3,700**		180	ND		1.4
cis-1,3-Dichloropropylene	ND		1.6	ND		1.5	ND		8.1	ND		1.7
Cyclohexane	ND		1.2	3.9		1.2	ND		6.1	ND		1.3
Dibromochloromethane	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Dichlorodifluoromethane	ND		1.7	ND		1.7	ND		8.8	ND		1.8
Ethanol	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Ethyl acetate	ND		1.2	ND		1.2	ND		6.4	ND		1.3
Ethyl Benzene	16		1.5	25		1.5	17		7.7	26		1.6
Hexachlorobutadiene	ND		3.7	ND		3.6	ND		19	ND		3.9
Isopropanol	ND		0.84	ND		0.83	ND		4.4	43		0.9
Methyl Methacrylate	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	ND		1.2	ND		1.2	ND		6.4	ND		1.3
Methylene chloride	7.1	B	1.2	3.6	B	1.2	17	B	6.2	4.2	B	1.3
n-Heptane	4.4		1.4	9		1.4	ND		7.3	11		1.5
n-Hexane	32		1.2	12		1.2	ND		6.3	23		1.3
o-Xylene	19		1.5	28		1.5	20		7.7	27		1.6
p- & m- Xylenes	61		1.5	86		1.5	53		7.7	87		1.6
p-Ethyltoluene	26		8.4	28		8.3	ND		44	30		9
Propylene	ND		0.59	ND		0.58	ND		3.1	ND		0.63
Styrene	ND		1.5	ND		1.4	ND		7.6	ND		1.6
Tertiary butyl Alcohol	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Tetrachloroethylene (PCE)	19		2.3	5.5		2.3	830		12	7.7		2.5
Tetrahydrofuran	ND		1	ND		0.99	ND		5.2	ND		1.1
Toluene	54		1.3	110		1.3	37		6.7	79		1.4
trans-1,2-Dichloroethylene (DCE)	ND		1.4	ND		1.3	110		7.1	ND		1.4
trans-1,3-Dichloropropylene	ND		1.6	ND		1.5	ND		8.1	ND		1.7
Trichloroethylene (TCE)	ND		0.92	59		0.91	**35,000**		120	ND		0.98
Trichlorofluoromethane	ND		1.9	ND		1.9	ND		10	ND		2.1
Vinyl acetate	ND		2.4	ND		2.4	ND		13	ND		2.6
Vinyl Bromide	ND		1.5	ND		1.5	ND		7.8	ND		1.6
Vinyl Chloride (VC)	ND		1.8	ND		1.7	ND		9.1	ND		1.9
Helium (%)	ND		0.5	ND		0.5	ND		0.5	ND		0.5

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed

Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 1: Soil Vapor - VOCs

Data in µg/m^3

Concentrations ≥1000 shown in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method TO-15)	2SB-2 (2013-07-31)			2SB-3 (2013-07-31)			2SB-4 (2013-07-31)			2SB-6 (2013-07-31)		
	Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1-Trichloroethane (TCA)	48		10	270		10	20		11	58		11
1,1,2,2-Tetrachloroethane	ND		13	ND		13	ND		14	ND		14
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		14	ND		14	ND		15	ND		16
1,1,2-Trichloroethane	ND		10	ND		10	ND		11	ND		11
1,1-Dichloroethane	ND		7.6	17		7.6	ND		8	ND		8.3
1,1-Dichloroethylene	18		7.5	ND		7.4	ND		7.9	ND		8.1
1,2,4-Trichlorobenzene	25		14	26		14	ND		15	ND		15
1,2,4-Trimethylbenzene	32		9.3	33		9.2	32		9.8	35		10
1,2-Dibromoethane	ND		14	ND		14	ND		15	ND		16
1,2-Dichlorobenzene	ND		11	ND		11	ND		12	ND		12
1,2-Dichloroethane	ND		7.6	ND		7.6	ND		8	ND		8.3
1,2-Dichloropropane	320		8.7	430		8.6	150		9.2	ND		9.5
1,2-Dichlorotetrafluoroethane	ND		13	ND		13	ND		14	ND		14
1,3,5-Trimethylbenzene	ND		9.3	ND		9.2	ND		9.8	ND		10
1,3-Butadiene	ND		8.2	ND		8.1	ND		8.6	ND		8.9
1,3-Dichlorobenzene	ND		11	ND		11	ND		12	ND		12
1,4-Dichlorobenzene	ND		11	ND		11	ND		12	ND		12
1,4-Dioxane	ND		6.8	ND		6.7	ND		7.2	ND		7.4
2,2,4-Trimethylpentane	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2-Butanone (MEK)	ND		5.6	24		5.5	16		5.9	43		6
2-Hexanone	ND		7.7	23		7.7	ND		8.1	ND		8.4
3-Chloropropene	*NA*		-	*NA*		-	*NA*		-	*NA*		-
4-Methyl-2-pentanone	29		7.7	41		7.7	90		8.1	ND		8.4
Acetone	29		4.5	300		4.4	69		4.7	40		4.9
Benzene	ND		6	13		6	ND		6.3	ND		6.6
Benzyl chloride	22		9.8	22		9.7	23		10	ND		11
Bromodichloromethane	ND		12	ND		12	ND		12	ND		13
Bromoform	ND		19	ND		19	ND		21	ND		21
Bromomethane	ND		7.3	ND		7.3	ND		7.7	ND		8
Carbon disulfide	ND		5.9	7		5.8	ND		6.2	ND		6.4
Carbon tetrachloride	ND		5.9	ND		5.9	ND		6.2	9		6.4
Chlorobenzene	ND		8.7	ND		8.6	ND		9.1	ND		9.4
Chloroethane	ND		5	ND		4.9	ND		5.2	ND		5.4
Chloroform	29		9.2	100		9.1	33		9.7	81		10
Chloromethane	ND		3.9	6.2		3.9	ND		4.1	ND		4.2
cis-1,2-Dichloroethylene (DCE)	**2,300**		150	**3,600**		150	**1,500**		7.9	380		8.1
cis-1,3-Dichloropropylene	ND		8.6	ND		8.5	ND		9	ND		9.3
Cyclohexane	ND		6.5	12		6.4	ND		6.8	ND		7.1
Dibromochloromethane	ND		15	1,600		15	340		16	ND		16
Dichlorodifluoromethane	ND		9.3	ND		9.3	ND		9.8	ND		10
Ethanol	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Ethyl acetate	ND		6.8	19		6.7	9.3		7.2	ND		7.4
Ethyl Benzene	ND		8.2	ND		8.1	ND		8.6	8.9		8.9
Hexachlorobutadiene	ND		20	ND		20	ND		21	ND		22
Isopropanol	ND		4.6	100		4.6	ND		4.9	ND		5
Methyl Methacrylate	ND		7.7	ND		7.7	ND		8.1	ND		8.4
Methyl tert-butyl ether (MTBE)	ND		6.8	ND		6.7	ND		7.1	ND		7.4
Methylene chloride	ND		6.5	ND		6.5	ND		6.9	ND		7.1
n-Heptane	ND		7.7	9.2		7.7	35		8.1	ND		8.4
n-Hexane	ND		6.6	9.2		6.6	ND		7	ND		7.2
o-Xylene	15		8.2	17		8.1	16		8.6	20		8.9
p- & m- Xylenes	ND		16	ND		16	ND		17	33		18
p-Ethyltoluene	ND		46	ND		46	ND		49	ND		50
Propylene	ND		3.2	67		3.2	ND		3.4	ND		3.5
Styrene	ND		8	16		8	ND		8.5	ND		8.7
Tertiary butyl Alcohol	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Tetrachloroethylene (PCE)	**1,000**		260	**2,500**		13	540		13	270		14
Tetrahydrofuran	ND		5.6	24		5.5	ND		5.9	ND		6
Toluene	ND		7.1	13		7.1	ND		7.5	8.5		7.7
trans-1,2-Dichloroethylene (DCE)	69		7.5	120		7.4	11		7.9	11		8.1
trans-1,3-Dichloropropylene	ND		8.6	ND		8.5	ND		9	ND		9.3
Trichloroethylene (TCE)	**33,000**		100	**43,000**		100	**12,000**		110	**6,600**		110
Trichlorofluoromethane	ND		11	ND		11	ND		11	ND		12
Vinyl acetate	ND		6.6	ND		6.6	ND		7	ND		7.2
Vinyl Bromide	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride (VC)	5.3		4.8	ND		4.8	ND		5.1	ND		5.2
Helium (%)	ND		0.93	ND		0.92	ND		ND	ND		1

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed

Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 1: Soil Vapor - VOCs

Data in µg/m^3

Concentrations ≥1000 shown in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs	2SB-7 (2013-07-31)			2SB-8 (2013-07-31)			2SB-10 (2013-07-31)			2SB-16 (2013-12-04)		
(USEPA Method TO-15)	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1-Trichloroethane (TCA)	1,000		9.3	430		220	ND		11	ND		10
1,1,2,2-Tetrachloroethane	ND		12	ND		280	ND		13	ND		13
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		13	ND		320	ND		15	ND		14
1,1,2-Trichloroethane	ND		9.3	ND		220	ND		11	ND		10
1,1-Dichloroethane	34		6.9	ND		170	ND		7.9	ND		7.4
1,1-Dichloroethylene	ND		6.8	ND		160	ND		7.7	ND		7.3
1,2,4-Trichlorobenzene	ND		13	ND		310	ND		14	ND		14
1,2,4-Trimethylbenzene	30		8.4	770		200	ND		9.6	ND		9
1,2-Dibromoethane	ND		13	ND		320	ND		15	ND		14
1,2-Dichlorobenzene	ND		10	ND		250	ND		12	ND		11
1,2-Dichloroethane	ND		6.9	ND		170	ND		7.9	ND		7.4
1,2-Dichloropropane	ND		7.9	ND		190	ND		9	ND		8.5
1,2-Dichlorotetrafluoroethane	ND		12	ND		290	ND		14	ND		13
1,3,5-Trimethylbenzene	ND		8.4	240		200	ND		9.6	ND		9
1,3-Butadiene	ND		7.4	ND		180	ND		8.4	ND		7.9
1,3-Dichlorobenzene	ND		10	ND		250	ND		12	ND		11
1,4-Dichlorobenzene	ND		10	ND		250	ND		12	ND		11
1,4-Dioxane	ND		6.2	ND		150	ND		7	ND		6.6
2,2,4-Trimethylpentane	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2-Butanone (MEK)	13		5	400		120	ND		5.7	9.7		5.4
2-Hexanone	ND		7	ND		170	ND		8	ND		7.5
3-Chloropropene	*NA*		-	*NA*		-	*NA*		-	*NA*		-
4-Methyl-2-pentanone	ND		7	ND		170	11		8	ND		7.5
Acetone	29		4.1	280		98	20		4.6	15		4.4
Benzene	ND		5.5	250		130	ND		6.2	ND		5.8
Benzyl chloride	ND		8.8	ND		210	ND		10	ND		9.5
Bromodichloromethane	ND		11	ND		260	ND		12	ND		11
Bromoform	ND		18	ND		430	ND		20	ND		19
Bromomethane	ND		6.6	ND		160	ND		7.6	ND		7.1
Carbon disulfide	ND		5.3	ND		130	13		6.1	ND		5.7
Carbon tetrachloride	ND		5.4	410		130	ND		6.1	ND		5.8
Chlorobenzene	ND		7.9	340		190	ND		9	ND		8.4
Chloroethane	ND		4.5	ND		110	ND		5.1	ND		4.8
Chloroform	38		8.3	440		200	ND		9.5	ND		8.9
Chloromethane	ND		3.5	ND		85	ND		4	ND		3.8
cis-1,2-Dichloroethylene (DCE)	570		6.8	650		160	ND		7.7	ND		7.3
cis-1,3-Dichloropropylene	ND		7.8	ND		190	ND		8.8	ND		8.3
Cyclohexane	ND		5.9	260		140	ND		6.7	ND		6.3
Dibromochloromethane	ND		14	ND		330	ND		16	ND		15
Dichlorodifluoromethane	ND		8.4	ND		200	ND		9.6	ND		9.1
Ethanol	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Ethyl acetate	ND		6.2	ND		150	ND		7	ND		6.6
Ethyl Benzene	25		7.4	300		180	14		8.5	ND		7.9
Hexachlorobutadiene	ND		18	ND		440	ND		21	ND		20
Isopropanol	ND		4.2	ND		100	ND		4.8	ND		4.5
Methyl Methacrylate	ND		7	ND		170	ND		8	ND		7.5
Methyl tert-butyl ether (MTBE)	ND		6.1	ND		150	ND		7	ND		6.6
Methylene chloride	7.7		5.9	ND		140	11		6.8	21	B	6.4
n-Heptane	ND		7	290		170	ND		8	ND		7.5
n-Hexane	6.6		6	ND		150	9.6		6.9	29		6.5
o-Xylene	38		7.4	500		180	11		8.5	ND		7.9
p- & m- Xylenes	110		15	590		360	44		17	ND		16
p-Ethyltoluene	ND		42	ND		1,000	ND		48	ND		45
Propylene	ND		2.9	ND		71	60		3.4	ND		3.2
Styrene	ND		7.3	490		180	ND		8.3	ND		7.8
Tertiary butyl Alcohol	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Tetrachloroethylene (PCE)	850		12	700		280	ND		13	43		12
Tetrahydrofuran	ND		5	ND		120	ND		5.7	11		5.4
Toluene	10		6.4	340		160	18		7.3	ND		6.9
trans-1,2-Dichloroethylene (DCE)	13		6.8	ND		160	ND		7.7	ND		7.3
trans-1,3-Dichloropropylene	ND		7.8	ND		190	ND		8.8	ND		8.3
Trichloroethylene (TCE)	**5,600**		92	**14,000**		110	ND		5.2	**1,100**		4.9
Trichlorofluoromethane	ND		9.6	ND		230	ND		11	ND		10
Vinyl acetate	ND		6	ND		140	ND		6.9	ND		6.4
Vinyl Bromide	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride (VC)	ND		4.4	190		110	ND		5	ND		4.7
Helium (%)	ND		0.84	ND		1	ND		0.96	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed

Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 1: Soil Vapor - VOCs

Data in µg/m^3

Concentrations ≥1000 shown in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method TO-15)	3SB-1 (2014-09-22)			3SB-2 (2014-09-22)		
	Result	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1-Trichloroethane (TCA)	31.6		10.9	14.1		1.09
1,1,2,2-Tetrachloroethane	ND		13.7	ND		1.37
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		15.3	ND		1.53
1,1,2-Trichloroethane	ND		10.9	ND		1.09
1,1-Dichloroethane	ND		8.09	ND		0.809
1,1-Dichloroethylene	ND		7.93	ND		0.793
1,2,4-Trichlorobenzene	ND		14.8	ND		1.48
1,2,4-Trimethylbenzene	11.4		9.83	14.6		0.983
1,2-Dibromoethane	ND		15.4	ND		1.54
1,2-Dichlorobenzene	ND		12	ND		1.2
1,2-Dichloroethane	ND		8.09	ND		0.809
1,2-Dichloropropane	ND		9.24	ND		0.924
1,2-Dichlorotetrafluoroethane	ND		14	ND		1.4
1,3,5-Trimethylbenzene	ND		9.83	4.34		0.983
1,3-Butadiene	ND		4.42	1.06		0.442
1,3-Dichlorobenzene	ND		12	ND		1.2
1,4-Dichlorobenzene	ND		12	ND		1.2
1,4-Dioxane	ND		7.21	ND		0.721
2,2,4-Trimethylpentane	ND		9.34	4.86		0.934
2-Butanone (MEK)	18.9		5.9	11.2		0.59
2-Hexanone	ND		8.2	4.84		0.82
3-Chloropropene	ND		6.26	ND		0.626
4-Methyl-2-pentanone	ND		8.2	87.3		0.82
Acetone	185		23.8	176		2.38
Benzene	ND		6.39	5.91		0.639
Benzyl chloride	ND		10.4	ND		1.04
Bromodichloromethane	ND		13.4	ND		1.34
Bromoform	ND		20.7	ND		2.07
Bromomethane	ND		7.77	ND		0.777
Carbon disulfide	ND		6.23	6.51		0.623
Carbon tetrachloride	ND		12.6	ND		1.26
Chlorobenzene	ND		9.21	ND		0.921
Chloroethane	ND		5.28	ND		0.528
Chloroform	18.6		9.77	2.59		0.977
Chloromethane	ND		4.13	ND		0.413
cis-1,2-Dichloroethylene (DCE)	28.9		7.93	ND		0.793
cis-1,3-Dichloropropylene	ND		9.08	ND		0.908
Cyclohexane	ND		6.88	1.38		0.688
Dibromochloromethane	ND		17	ND		1.7
Dichlorodifluoromethane	9.99		9.89	3.56		0.989
Ethanol	ND		47.1	10.9		4.71
Ethyl acetate	ND		18	ND		1.8
Ethyl Benzene	ND		8.69	7.12		0.869
Hexachlorobutadiene	ND		21.3	ND		2.13
Isopropanol	ND		12.3	1.94		1.23
Methyl Methacrylate	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	ND		7.21	ND		0.721
Methylene chloride	ND		17.4	7.43		1.74
n-Heptane	ND		8.2	4.18		0.82
n-Hexane	ND		7.05	3.45		0.705
o-Xylene	9.9		8.69	9.9		0.869
p- & m- Xylenes	22.4		17.4	23.8		1.74
p-Ethyltoluene	ND		9.83	4.35		0.983
Propylene	*NA*		-	*NA*		-
Styrene	ND		8.52	ND		0.852
Tertiary butyl Alcohol	ND		15.2	6.4		1.52
Tetrachloroethylene (PCE)	102		13.6	36		1.36
Tetrahydrofuran	ND		5.9	1.57		0.59
Toluene	15.9		7.54	18.7		0.754
trans-1,2-Dichloroethylene (DCE)	ND		7.93	ND		0.793
trans-1,3-Dichloropropylene	ND		9.08	ND		0.908
Trichloroethylene (TCE)	**6,130**	E	10.7	**134**		1.07
Trichlorofluoromethane	ND		11.2	7.64		1.12
Vinyl acetate	*NA*		-	*NA*		-
Vinyl Bromide	ND		8.74	ND		0.874
Vinyl Chloride (VC)	ND		5.11	ND		0.511
Helium (%)	ND		0.175	ND		0.198

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed

Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 2: Soil Vapor - Selected cVOCs

Data in µg/m^3

Concentrations >=1000 shown in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

Comparison of Selected cVOC Results for Soil Vapor

VOCs (TO-15)	SG-1 (2012-02-02)	SG-2 (2012-02-02)	SG-3 (2012-02-02)	SG-4 (2012-02-02)	2SB-2 (2013-07-31)	2SB-3 (2013-07-31)	2SB-4 (2013-07-31)
	Result	*Result*	*Result*	*Result*	*Result*	*Result*	*Result*
TCA	ND	92	150	ND	48	270	20
PCE	19	5.5	830	7.7	**1,000**	**2,500**	540
TCE	ND	59	**35,000**	ND	**33,000**	**43,000**	**12,000**
cis-DCE	ND	2.7	**3,700**	ND	**2,300**	**3,600**	1,500
trans-DCE	ND	ND	110	ND	69	120	11
VC	ND	ND	ND	ND	5.3	ND	ND

VOCs (TO-15)	2SB-6 (2013-07-31)	2SB-7 (2013-07-31)	2SB-8 (2013-07-31)	2SB-10 (2013-07-31)	2SB-16 (2013-12-04)	3SB-1 (2014-09-22)	3SB-2 (2014-09-22)
	Result	*Result*	*Result*	*Result*	*Result*	*Result*	*Result*
TCA	58	**1,000**	430	ND	ND	31.6	14.1
PCE	270	850	700	ND	ND	102	36
TCE	**6,600**	**5,600**	**14,000**	ND	**1,100**	**6,130**	134
cis-DCE	380	570	650	ND	ND	28.9	ND
trans-DCE	11	13	ND	ND	ND	ND	ND
VC	ND	ND	190	ND	ND	ND	ND

Notes:

Table presents only detected soil vapor concentrations of TCE and related compounds, and TCA

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		SB-MW-17 (12-16) (2012-04-19) (Spill Site)			SB-MW-18 (8-12) (2012-04-19) (Spill Site)			MW-19 (10-12) (2012-02-02) (Spill Site)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		13	ND		560	ND		600
1,1,1-Trichloroethane	680	100,000	ND		13	ND		560	ND		600
1,1,2,2-Tetrachloroethane	NE	NE	ND		13	ND		560	ND		600
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		13	ND		560	ND		600
1,1,2-Trichloroethane	NE	NE	ND		13	ND		560	ND		600
1,1-Dichloroethane	270	26,000	ND		13	ND		560	ND		600
1,1-Dichloroethylene	330	100,000	ND		13	ND		560	ND		600
1,1-Dichloropropylene	NE	NE	ND		13	ND		560	ND		600
1,2,3-Trichlorobenzene	NE	NE	ND		25	ND		1,100	ND		1,200
1,2,3-Trichloropropane	NE	NE	ND		13	ND		560	ND		600
1,2,4-Trichlorobenzene	NE	NE	ND		25	ND		1,100	ND		1,200
1,2,4-Trimethylbenzene	3,600	52,000	ND		13	ND		560	ND		600
1,2-Dibromo-3-chloropropane	NE	NE	ND		25	ND		1,100	ND		1,200
1,2-Dibromoethane	NE	NE	ND		13	ND		560	ND		600
1,2-Dichlorobenzene	1,100	100,000	ND		13	ND		560	ND		600
1,2-Dichloroethane	20	3,100	ND		13	ND		560	ND		600
1,2-Dichloropropane	NE	NE	ND		13	ND		560	ND		600
1,3,5-Trimethylbenzene	8,400	52,000	ND		13	ND		560	ND		600
1,3-Dichlorobenzene	2,400	49,000	ND		13	ND		560	ND		600
1,3-Dichloropropane	NE	NE	ND		13	ND		560	ND		600
1,4-Dichlorobenzene	1,800	13,000	ND		13	ND		560	ND		600
1,4-Dioxane	100	13,000	ND		130	ND		5,600	ND	R	6,000
2,2-Dichloropropane	NE	NE	ND		13	ND		560	ND		600
2-Butanone	120	100,000	ND		25	ND		1,100	ND		1,200
2-Chlorotoluene	NE	NE	ND		13	ND		560	ND		600
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		13	ND		560	ND		600
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	49	B	25	16	B-dil,B	11	**1,100**	J	1,200
Benzene	60	4,800	ND		13	ND		560	ND		600
Bromobenzene	NE	NE	ND		13	ND		560	ND		600
Bromochloromethane	NE	NE	ND		13	ND		560	ND		600
Bromodichloromethane	NE	NE	ND		13	ND		560	ND		600
Bromoform	NE	NE	ND		13	ND		560	ND		600
Bromomethane	NE	NE	ND		13	290	J	560	ND		600
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		13	ND		560	ND		600
Chlorobenzene	1,100	100,000	ND		13	ND		560	ND		600
Chloroethane	NE	NE	ND		13	ND		560	ND		600
Chloroform	370	49,000	ND		13	ND		560	ND		600
Chloromethane	NE	NE	ND		13	ND		560	ND		600
cis-1,2-Dichloroethylene	250	100,000	ND		13	ND		560	ND		600
cis-1,3-Dichloropropylene	NE	NE	ND		13	ND		560	ND		600
Dibromochloromethane	NE	NE	ND		13	ND		560	ND		600
Dibromomethane	NE	NE	ND		13	ND		560	ND		600
Dichlorodifluoromethane	NE	NE	ND		13	ND		560	ND		600
Ethyl Benzene	1,000	41,000	ND		13	ND		560	260	J	600
Hexachlorobutadiene	NE	NE	ND		13	ND		560	ND		600
Isopropylbenzene	2,300	100,000	ND		13	ND		560	250	J	600
Methyl tert-butyl ether (MTBE)	930	100,000	ND		13	ND		560	ND		600
Methylene chloride	50	500,000	23	J,B	25	8.1	B-dil,J,B	11	2.3	B-dil,J, B	12
Naphthalene	12,000	NE	ND		25	ND		1,100	2,900		1,200
n-Butylbenzene	12,000	100,000	ND		13	ND		560	450	J	600
n-Propylbenzene	3,900	100,000	ND		13	ND		560	440	J	600
o-Xylene	NE	NE	ND		13	ND		560	130	J	600
p- & m- Xylenes	NE	NE	ND		25	ND		1,100	ND		1,200
p-Isopropyltoluene	10,000	NE	ND		13	ND		560	ND		600
sec-Butylbenzene	11,000	100,000	ND		13	ND		560	330	J	600
Styrene	NE	NE	ND		13	ND		560	ND		600
tert-Butylbenzene	5,900	100,000	ND		13	ND		560	ND		600
Tetrachloroethylene	1,300	19,000	ND		13	ND		560	ND		600
Toluene	700	100,000	ND		13	ND		560	ND		600
trans-1,2-Dichloroethylene	190	100,000	ND		13	ND		560	ND		600
trans-1,3-Dichloropropylene	NE	NE	ND		13	ND		560	ND		600
Trichloroethylene	470	21,000	2.4	J	13	ND		560	ND		600
Trichlorofluoromethane	NE	NE	ND		13	ND		560	ND		600
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		13	ND		560	ND		600
Xylenes, Total	260	100,000	ND		38	ND		1,700	ND		1,800
Total TICs	NE	NE	*NA*		-	*NA*		-	28,891		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs) Unrestricted	Restricted-Residential	MW-23 (2012-07-25) Result	Flag	RL	MW-24 (2012-07-25) Result	Flag	RL	MW-25 (2012-07-25) Result	Flag	RL
1,1,1,2-Tetrachloroethane	NE	NE	ND		6.1	ND		6.3	ND		560
1,1,1-Trichloroethane	680	100,000	ND		6.1	ND		6.3	ND		560
1,1,2,2-Tetrachloroethane	NE	NE	ND		6.1	ND		6.3	ND		560
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		6.1	ND		6.3	ND		560
1,1,2-Trichloroethane	NE	NE	ND		6.1	ND		6.3	ND		560
1,1-Dichloroethane	270	26,000	ND		6.1	ND		6.3	ND		560
1,1-Dichloroethylene	330	100,000	ND		6.1	ND		6.3	ND		560
1,1-Dichloropropylene	NE	NE	ND		6.1	ND		6.3	ND		560
1,2,3-Trichlorobenzene	NE	NE	ND		12	ND		13	ND		1,100
1,2,3-Trichloropropane	NE	NE	ND		6.1	ND		6.3	ND		560
1,2,4-Trichlorobenzene	NE	NE	ND		12	ND		13	ND		1,100
1,2,4-Trimethylbenzene	3,600	52,000	ND		6.1	ND		6.3	ND		560
1,2-Dibromo-3-chloropropane	NE	NE	ND		12	ND		13	ND		1,100
1,2-Dibromoethane	NE	NE	ND		6.1	ND		6.3	ND		560
1,2-Dichlorobenzene	1,100	100,000	ND		6.1	ND		6.3	ND		560
1,2-Dichloroethane	20	3,100	ND		6.1	ND		6.3	ND		560
1,2-Dichloropropane	NE	NE	ND		6.1	ND		6.3	ND		560
1,3,5-Trimethylbenzene	8,400	52,000	ND		6.1	ND		6.3	ND		560
1,3-Dichlorobenzene	2,400	49,000	ND		6.1	ND		6.3	ND		560
1,3-Dichloropropane	NE	NE	ND		6.1	ND		6.3	ND		560
1,4-Dichlorobenzene	1,800	13,000	ND		6.1	ND		6.3	ND		560
1,4-Dioxane	100	13,000	ND		61	ND		63	ND		5,600
2,2-Dichloropropane	NE	NE	ND		6.1	ND		6.3	ND		560
2-Butanone	120	100,000	ND		12	ND		13	ND		1,100
2-Chlorotoluene	NE	NE	ND		6.1	ND		6.3	ND		560
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		6.1	ND		6.3	ND		560
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	9.4	J	12	19		13	ND	B-Dil	11
Benzene	60	4,800	ND		6.1	ND		6.3	ND		560
Bromobenzene	NE	NE	ND		6.1	ND		6.3	ND		560
Bromochloromethane	NE	NE	ND		6.1	ND		6.3	ND		560
Bromodichloromethane	NE	NE	ND		6.1	ND		6.3	ND		560
Bromoform	NE	NE	ND		6.1	ND		6.3	ND		560
Bromomethane	NE	NE	ND		6.1	ND		6.3	ND		560
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		6.1	ND		6.3	ND		560
Chlorobenzene	1,100	100,000	ND		6.1	ND		6.3	ND		560
Chloroethane	NE	NE	ND		6.1	ND		6.3	ND		560
Chloroform	370	49,000	ND		6.1	ND		6.3	ND		560
Chloromethane	NE	NE	ND		6.1	ND		6.3	ND		560
cis-1,2-Dichloroethylene	250	100,000	ND		6.1	ND		6.3	ND		560
cis-1,3-Dichloropropylene	NE	NE	ND		6.1	ND		6.3	ND		560
Dibromochloromethane	NE	NE	ND		6.1	ND		6.3	ND		560
Dibromomethane	NE	NE	ND		6.1	ND		6.3	ND		560
Dichlorodifluoromethane	NE	NE	ND		6.1	ND		6.3	ND		560
Ethyl Benzene	1,000	41,000	ND		6.1	ND		6.3	ND		560
Hexachlorobutadiene	NE	NE	ND		6.1	ND		6.3	ND		560
Isopropylbenzene	2,300	100,000	ND		6.1	ND		6.3	ND		560
Methyl tert-butyl ether (MTBE)	930	100,000	ND		6.1	ND		6.3	ND		560
Methylene chloride	50	500,000	11	J, B	12	6.3	J, B	13	1.1	B-dil,J, B	11
Naphthalene	12,000	NE	ND		12	ND		13	ND		1,100
n-Butylbenzene	12,000	100,000	ND		6.1	ND		6.3	ND		560
n-Propylbenzene	3,900	100,000	ND		6.1	ND		6.3	ND		560
o-Xylene	NE	NE	ND		6.1	ND		6.3	ND		560
p- & m- Xylenes	NE	NE	ND		12	ND		13	ND		1,100
p-Isopropyltoluene	10,000	NE	ND		6.1	ND		6.3	ND		560
sec-Butylbenzene	11,000	100,000	ND		6.1	ND		6.3	ND		560
Styrene	NE	NE	ND		6.1	ND		6.3	ND		560
tert-Butylbenzene	5,900	100,000	ND		6.1	ND		6.3	ND		560
Tetrachloroethylene	1,300	19,000	ND		6.1	ND		6.3	ND		560
Toluene	700	100,000	ND		6.1	ND		6.3	ND		560
trans-1,2-Dichloroethylene	190	100,000	ND		6.1	ND		6.3	ND		560
trans-1,3-Dichloropropylene	NE	NE	ND		6.1	ND		6.3	ND		560
Trichloroethylene	470	21,000	ND		6.1	ND		6.3	ND		560
Trichlorofluoromethane	NE	NE	ND		6.1	ND		6.3	ND		560
Vinyl acetate	NE	NE	ND		12	ND		13	ND		1,100
Vinyl Chloride	20	900	ND		6.1	ND		6.3	ND		560
Xylenes, Total	260	100,000	ND		18	ND		19	ND		1,700
Total TICs	NE	NE	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		MW-26 (2012-09-24)			MW-27 (2012-09-24)			MW-28 (2013-01-15)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
1,1,1-Trichloroethane	680	100,000	ND		6.5	ND		6.4	ND		6.1
1,1,2,2-Tetrachloroethane	NE	NE	ND	R	6.5	ND		6.4	ND		6.1
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
1,1,2-Trichloroethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
1,1-Dichloroethane	270	26,000	ND		6.5	ND		6.4	ND		6.1
1,1-Dichloroethylene	330	100,000	ND		6.5	ND		6.4	ND		6.1
1,1-Dichloropropylene	NE	NE	ND		6.5	ND		6.4	ND		6.1
1,2,3-Trichlorobenzene	NE	NE	1.1	J	13	ND		13	ND		12
1,2,3-Trichloropropane	NE	NE	ND	R	6.5	ND		6.4	ND		6.1
1,2,4-Trichlorobenzene	NE	NE	ND	R	13	ND		13	ND		12
1,2,4-Trimethylbenzene	3,600	52,000	ND	R	6.5	ND		6.4	ND		6.1
1,2-Dibromo-3-chloropropane	NE	NE	ND	R	13	ND		13	ND		12
1,2-Dibromoethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
1,2-Dichlorobenzene	1,100	100,000	8.5		6.5	ND		6.4	ND		6.1
1,2-Dichloroethane	20	3,100	ND		6.5	ND		6.4	ND		6.1
1,2-Dichloropropane	NE	NE	ND		6.5	ND		6.4	ND		6.1
1,3,5-Trimethylbenzene	8,400	52,000	ND	R	6.5	ND		6.4	ND		6.1
1,3-Dichlorobenzene	2,400	49,000	ND	R	6.5	ND		6.4	ND		6.1
1,3-Dichloropropane	NE	NE	ND		6.5	ND		6.4	ND		6.1
1,4-Dichlorobenzene	1,800	13,000	2.1	J	6.5	ND		6.4	ND		6.1
1,4-Dioxane	100	13,000	ND		65	ND		64	ND		61
2,2-Dichloropropane	NE	NE	ND		6.5	ND		6.4	ND		6.1
2-Butanone	120	100,000	3	J	13	ND		13	ND		12
2-Chlorotoluene	NE	NE	ND	R	6.5	ND		6.4	ND		6.1
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND	R	6.5	ND		6.4	ND		6.1
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	19	B	13	46	B	13	ND		12
Benzene	60	4,800	ND		6.5	ND		6.4	ND		6.1
Bromobenzene	NE	NE	ND	R	6.5	ND		6.4	ND		6.1
Bromochloromethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
Bromodichloromethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
Bromoform	NE	NE	ND	R	6.5	ND		6.4	ND		6.1
Bromomethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		6.5	ND		6.4	ND		6.1
Chlorobenzene	1,100	100,000	ND		6.5	ND		6.4	ND		6.1
Chloroethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
Chloroform	370	49,000	ND		6.5	ND		6.4	ND		6.1
Chloromethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
cis-1,2-Dichloroethylene	250	100,000	ND		6.5	ND		6.4	ND		6.1
cis-1,3-Dichloropropylene	NE	NE	ND		6.5	ND		6.4	ND		6.1
Dibromochloromethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
Dibromomethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
Dichlorodifluoromethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
Ethyl Benzene	1,000	41,000	ND		6.5	ND		6.4	ND		6.1
Hexachlorobutadiene	NE	NE	ND	R	6.5	ND		6.4	ND		6.1
Isopropylbenzene	2,300	100,000	7.5		6.5	ND		6.4	ND		6.1
Methyl tert-butyl ether (MTBE)	930	100,000	ND		6.5	ND		6.4	ND		6.1
Methylene chloride	50	500,000	3.2	J,B	13	2.9	J,B	13	ND		12
Naphthalene	12,000	NE	3.6	J	13	ND		13	ND		12
n-Butylbenzene	12,000	100,000	13		6.5	ND		6.4	ND		6.1
n-Propylbenzene	3,900	100,000	4.3	J	6.5	ND		6.4	ND		6.1
o-Xylene	NE	NE	ND		6.5	ND		6.4	ND		6.1
p- & m- Xylenes	NE	NE	ND		13	ND		13	ND		12
p-Isopropyltoluene	10,000	NE	2.2	J	6.5	ND		6.4	ND		6.1
sec-Butylbenzene	11,000	100,000	13		6.5	ND		6.4	ND		6.1
Styrene	NE	NE	ND		6.5	ND		6.4	ND		6.1
tert-Butylbenzene	5,900	100,000	ND	R	6.5	ND		6.4	ND		6.1
Tetrachloroethylene	1,300	19,000	ND		6.5	ND		6.4	ND		6.1
Toluene	700	100,000	ND		6.5	ND		6.4	ND		6.1
trans-1,2-Dichloroethylene	190	100,000	ND		6.5	ND		6.4	ND		6.1
trans-1,3-Dichloropropylene	NE	NE	ND		6.5	ND		6.4	ND		6.1
Trichloroethylene	470	21,000	ND		6.5	ND		6.4	ND		6.1
Trichlorofluoromethane	NE	NE	ND		6.5	ND		6.4	ND		6.1
Vinyl acetate	NE	NE	ND		13	ND		13	ND		12
Vinyl Chloride	20	900	ND		6.5	ND		6.4	ND		6.1
Xylenes, Total	260	100,000	ND		20	ND		19	ND		18
Total TICs	NE	NE	455		-	ND		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		MW-29 (2013-01-08)			MW-30 (10-15) (2013-07-31)			MW-31 (10-15) (2013-07-31)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		2	ND		4.9	ND		5.5
1,1,1-Trichloroethane	680	100,000	ND		2	ND		4.9	ND		5.5
1,1,2,2-Tetrachloroethane	NE	NE	ND		2	ND		4.9	ND		5.5
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		2	ND		4.9	ND		5.5
1,1,2-Trichloroethane	NE	NE	ND		2	ND		4.9	ND		5.5
1,1-Dichloroethane	270	26,000	ND		2	ND		4.9	ND		5.5
1,1-Dichloroethylene	330	100,000	ND		2	ND		4.9	ND		5.5
1,1-Dichloropropylene	NE	NE	ND		2	ND		4.9	ND		5.5
1,2,3-Trichlorobenzene	NE	NE	ND		4.1	ND		4.9	ND		5.5
1,2,3-Trichloropropane	NE	NE	ND		2	ND		4.9	ND		5.5
1,2,4-Trichlorobenzene	NE	NE	ND		4.1	ND		4.9	ND		5.5
1,2,4-Trimethylbenzene	3,600	52,000	ND		2	ND		4.9	ND		5.5
1,2-Dibromo-3-chloropropane	NE	NE	ND		4.1	ND		4.9	ND		5.5
1,2-Dibromoethane	NE	NE	ND		2	ND		4.9	ND		5.5
1,2-Dichlorobenzene	1,100	100,000	ND		2	ND		4.9	ND		5.5
1,2-Dichloroethane	20	3,100	ND		2	ND		4.9	ND		5.5
1,2-Dichloropropane	NE	NE	ND		2	ND		4.9	ND		5.5
1,3,5-Trimethylbenzene	8,400	52,000	ND		2	ND		4.9	ND		5.5
1,3-Dichlorobenzene	2,400	49,000	ND		2	ND		4.9	ND		5.5
1,3-Dichloropropane	NE	NE	ND		2	ND		4.9	ND		5.5
1,4-Dichlorobenzene	1,800	13,000	ND		2	ND		4.9	ND		5.5
1,4-Dioxane	100	13,000	ND	R	20	ND		98	ND		110
2,2-Dichloropropane	NE	NE	ND		2	ND		4.9	ND		5.5
2-Butanone	120	100,000	ND		4.1	ND		4.9	ND		5.5
2-Chlorotoluene	NE	NE	ND		2	ND		4.9	ND		5.5
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		2	ND		4.9	ND		5.5
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	2.1		4.1	ND		9.8	3.7	J,B	11
Benzene	60	4,800	ND		2	ND		4.9	ND		5.5
Bromobenzene	NE	NE	ND		2	ND		4.9	ND		5.5
Bromochloromethane	NE	NE	ND		2	ND		4.9	ND		5.5
Bromodichloromethane	NE	NE	ND		2	ND		4.9	ND		5.5
Bromoform	NE	NE	ND		2	ND		4.9	ND		5.5
Bromomethane	NE	NE	ND		2	ND		4.9	ND		5.5
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		2	ND		4.9	ND		5.5
Chlorobenzene	1,100	100,000	ND		2	ND		4.9	ND		5.5
Chloroethane	NE	NE	ND		2	ND		4.9	ND		5.5
Chloroform	370	49,000	ND		2	ND		4.9	ND		5.5
Chloromethane	NE	NE	ND		2	ND		4.9	ND		5.5
cis-1,2-Dichloroethylene	250	100,000	ND		2	ND		4.9	ND		5.5
cis-1,3-Dichloropropylene	NE	NE	ND		2	ND		4.9	ND		5.5
Dibromochloromethane	NE	NE	ND		2	ND		4.9	ND		5.5
Dibromomethane	NE	NE	ND		2	ND		4.9	ND		5.5
Dichlorodifluoromethane	NE	NE	ND		2	ND		4.9	ND		5.5
Ethyl Benzene	1,000	41,000	ND		2	ND		4.9	ND		5.5
Hexachlorobutadiene	NE	NE	ND		2	ND		4.9	ND		5.5
Isopropylbenzene	2,300	100,000	ND		2	ND		4.9	ND		5.5
Methyl tert-butyl ether (MTBE)	930	100,000	ND		2	ND		4.9	ND		5.5
Methylene chloride	50	500,000	ND		4.1	ND		9.8	ND		11
Naphthalene	12,000	NE	ND		4.1	ND		9.8	ND		11
n-Butylbenzene	12,000	100,000	ND		2	ND		4.9	ND		5.5
n-Propylbenzene	3,900	100,000	ND		2	ND		4.9	ND		5.5
o-Xylene	NE	NE	ND		2	ND		4.9	ND		5.5
p- & m- Xylenes	NE	NE	ND		4.1	ND		9.8	ND		11
p-Isopropyltoluene	10,000	NE	ND		2	ND		4.9	ND		5.5
sec-Butylbenzene	11,000	100,000	ND		2	ND		4.9	ND		5.5
Styrene	NE	NE	ND		2	ND		4.9	ND		5.5
tert-Butylbenzene	5,900	100,000	ND		2	ND		4.9	ND		5.5
Tetrachloroethylene	1,300	19,000	ND		2	ND		4.9	ND		5.5
Toluene	700	100,000	ND		2	ND		4.9	ND		5.5
trans-1,2-Dichloroethylene	190	100,000	ND		2	ND		4.9	ND		5.5
trans-1,3-Dichloropropylene	NE	NE	ND		2	ND		4.9	ND		5.5
Trichloroethylene	470	21,000	ND		2	ND		4.9	ND		5.5
Trichlorofluoromethane	NE	NE	ND		2	ND		4.9	ND		5.5
Vinyl acetate	NE	NE	ND		4.1	ND		4.9	ND		5.5
Vinyl Chloride	20	900	ND		2	ND		4.9	ND		5.5
Xylenes, Total	260	100,000	ND		6.1	ND		15	ND		16
Total TICs	NE	NE	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		MW-32 (0-5) (2013-07-31)			MW-32 (10-15) (2013-07-31)			2SB-1/MW-34 (10-15) (2013-08-01)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		5	ND		5	ND		4.9
1,1,1-Trichloroethane	680	100,000	ND		5	ND		5	ND		4.9
1,1,2,2-Tetrachloroethane	NE	NE	ND		5	ND		5	ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		5	ND		5	ND		4.9
1,1,2-Trichloroethane	NE	NE	ND		5	ND		5	ND		4.9
1,1-Dichloroethane	270	26,000	ND		5	ND		5	ND		4.9
1,1-Dichloroethylene	330	100,000	ND		5	ND		5	ND		4.9
1,1-Dichloropropylene	NE	NE	ND		5	ND		5	ND		4.9
1,2,3-Trichlorobenzene	NE	NE	ND		5	ND		5	ND		4.9
1,2,3-Trichloropropane	NE	NE	ND		5	ND		5	ND		4.9
1,2,4-Trichlorobenzene	NE	NE	ND		5	ND		5	ND		4.9
1,2,4-Trimethylbenzene	3,600	52,000	ND		5	ND		5	ND		4.9
1,2-Dibromo-3-chloropropane	NE	NE	ND		5	ND		5	ND		4.9
1,2-Dibromoethane	NE	NE	ND		5	ND		5	ND		4.9
1,2-Dichlorobenzene	1,100	100,000	ND		5	ND		5	ND		4.9
1,2-Dichloroethane	20	3,100	ND		5	ND		5	ND		4.9
1,2-Dichloropropane	NE	NE	ND		5	ND		5	ND		4.9
1,3,5-Trimethylbenzene	8,400	52,000	ND		5	ND		5	ND		4.9
1,3-Dichlorobenzene	2,400	49,000	ND		5	ND		5	ND		4.9
1,3-Dichloropropane	NE	NE	ND		5	ND		5	ND		4.9
1,4-Dichlorobenzene	1,800	13,000	ND		5	ND		5	ND		4.9
1,4-Dioxane	100	13,000	ND		100	ND		100	ND		98
2,2-Dichloropropane	NE	NE	ND		5	ND		5	ND		4.9
2-Butanone	120	100,000	ND		5	ND		5	ND		4.9
2-Chlorotoluene	NE	NE	ND		5	ND		5	ND		4.9
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		5	ND		5	ND		4.9
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	3.5	J,B	10	15	B	10	ND		9.8
Benzene	60	4,800	ND		5	ND		5	ND		4.9
Bromobenzene	NE	NE	ND		5	ND		5	ND		4.9
Bromochloromethane	NE	NE	ND		5	ND		5	ND		4.9
Bromodichloromethane	NE	NE	ND		5	ND		5	ND		4.9
Bromoform	NE	NE	ND		5	ND		5	ND		4.9
Bromomethane	NE	NE	ND		5	ND		5	ND		4.9
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		5	ND		5	ND		4.9
Chlorobenzene	1,100	100,000	ND		5	ND		5	ND		4.9
Chloroethane	NE	NE	ND		5	ND		5	ND		4.9
Chloroform	370	49,000	ND		5	ND		5	ND		4.9
Chloromethane	NE	NE	ND		5	ND		5	ND		4.9
cis-1,2-Dichloroethylene	250	100,000	ND		5	ND		5	96		4.9
cis-1,3-Dichloropropylene	NE	NE	ND		5	ND		5	ND		4.9
Dibromochloromethane	NE	NE	ND		5	ND		5	ND		4.9
Dibromomethane	NE	NE	ND		5	ND		5	ND		4.9
Dichlorodifluoromethane	NE	NE	ND		5	ND		5	ND		4.9
Ethyl Benzene	1,000	41,000	ND		5	ND		5	ND		4.9
Hexachlorobutadiene	NE	NE	ND		5	ND		5	ND		4.9
Isopropylbenzene	2,300	100,000	ND		5	ND		5	ND		4.9
Methyl tert-butyl ether (MTBE)	930	100,000	ND		5	ND		5	ND		4.9
Methylene chloride	50	500,000	ND		10	ND		10	ND		9.8
Naphthalene	12,000	NE	ND		10	ND		10	ND		9.8
n-Butylbenzene	12,000	100,000	ND		5	ND		5	ND		4.9
n-Propylbenzene	3,900	100,000	ND		5	ND		5	ND		4.9
o-Xylene	NE	NE	ND		5	ND		5	ND		4.9
p- & m- Xylenes	NE	NE	ND		10	ND		10	ND		9.8
p-Isopropyltoluene	10,000	NE	ND		5	ND		5	ND		4.9
sec-Butylbenzene	11,000	100,000	ND		5	ND		5	ND		4.9
Styrene	NE	NE	ND		5	ND		5	ND		4.9
tert-Butylbenzene	5,900	100,000	ND		5	ND		5	ND		4.9
Tetrachloroethylene	1,300	19,000	ND		5	ND		5	ND		4.9
Toluene	700	100,000	ND		5	ND		5	ND		4.9
trans-1,2-Dichloroethylene	190	100,000	ND		5	ND		5	ND		4.9
trans-1,3-Dichloropropylene	NE	NE	ND		5	ND		5	ND		4.9
Trichloroethylene	470	21,000	ND		5	ND		5	**1,000**		490
Trichlorofluoromethane	NE	NE	ND		5	ND		5	ND		4.9
Vinyl acetate	NE	NE	ND		5	ND		5	ND		4.9
Vinyl Chloride	20	900	ND		5	ND		5	ND		4.9
Xylenes, Total	260	100,000	ND		15	ND		15	ND		15
Total TICs	NE	NE	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		2SB-1/MW-34 (15-20) (2013-08-01)			2SB-9/MW-35 (0-5) (2013-08-01)			2SB-9/MW-35 (10-15) (2013-08-01)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,1,1,2-Tetrachloroethane	NE	NE	ND		4.8	ND		4.6	ND		6
1,1,1-Trichloroethane	680	100,000	ND		4.8	ND		4.6	ND		6
1,1,2,2-Tetrachloroethane	NE	NE	ND		4.8	ND		4.6	ND		6
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		4.8	ND		4.6	ND		6
1,1,2-Trichloroethane	NE	NE	ND		4.8	ND		4.6	ND		6
1,1-Dichloroethane	270	26,000	ND		4.8	ND		4.6	ND		6
1,1-Dichloroethylene	330	100,000	ND		4.8	ND		4.6	ND		6
1,1-Dichloropropylene	NE	NE	ND		4.8	ND		4.6	ND		6
1,2,3-Trichlorobenzene	NE	NE	ND		4.8	ND		4.6	ND		6
1,2,3-Trichloropropane	NE	NE	ND		4.8	ND		4.6	ND		6
1,2,4-Trichlorobenzene	NE	NE	ND		4.8	ND		4.6	ND		6
1,2,4-Trimethylbenzene	3,600	52,000	ND		4.8	ND		4.6	ND		6
1,2-Dibromo-3-chloropropane	NE	NE	ND		4.8	ND		4.6	ND		6
1,2-Dibromoethane	NE	NE	ND		4.8	ND		4.6	ND		6
1,2-Dichlorobenzene	1,100	100,000	ND		4.8	ND		4.6	ND		6
1,2-Dichloroethane	20	3,100	ND		4.8	ND		4.6	ND		6
1,2-Dichloropropane	NE	NE	ND		4.8	ND		4.6	ND		6
1,3,5-Trimethylbenzene	8,400	52,000	ND		4.8	ND		4.6	ND		6
1,3-Dichlorobenzene	2,400	49,000	ND		4.8	ND		4.6	ND		6
1,3-Dichloropropane	NE	NE	ND		4.8	ND		4.6	ND		6
1,4-Dichlorobenzene	1,800	13,000	ND		4.8	ND		4.6	ND		6
1,4-Dioxane	100	13,000	ND		96	ND		93	ND		120
2,2-Dichloropropane	NE	NE	ND		4.8	ND		4.6	ND		6
2-Butanone	120	100,000	ND		4.8	ND		4.6	ND		6
2-Chlorotoluene	NE	NE	ND		4.8	ND		4.6	ND		6
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		4.8	ND		4.6	ND		6
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	ND		9.6	ND		9.3	ND		12
Benzene	60	4,800	ND		4.8	ND		4.6	ND		6
Bromobenzene	NE	NE	ND		4.8	ND		4.6	ND		6
Bromochloromethane	NE	NE	ND		4.8	ND		4.6	ND		6
Bromodichloromethane	NE	NE	ND		4.8	ND		4.6	ND		6
Bromoform	NE	NE	ND		4.8	ND		4.6	ND		6
Bromomethane	NE	NE	ND		4.8	ND		4.6	ND		6
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		4.8	ND		4.6	ND		6
Chlorobenzene	1,100	100,000	ND		4.8	ND		4.6	ND		6
Chloroethane	NE	NE	ND		4.8	ND		4.6	ND		6
Chloroform	370	49,000	ND		4.8	ND		4.6	ND		6
Chloromethane	NE	NE	ND		4.8	ND		4.6	ND		6
cis-1,2-Dichloroethylene	250	100,000	**430**	J	480	ND		4.6	6.9		6
cis-1,3-Dichloropropylene	NE	NE	ND		4.8	ND		4.6	ND		6
Dibromochloromethane	NE	NE	ND		4.8	ND		4.6	ND		6
Dibromomethane	NE	NE	ND		4.8	ND		4.6	ND		6
Dichlorodifluoromethane	NE	NE	ND		4.8	ND		4.6	ND		6
Ethyl Benzene	1,000	41,000	ND		4.8	ND		4.6	ND		6
Hexachlorobutadiene	NE	NE	ND		4.8	ND		4.6	ND		6
Isopropylbenzene	2,300	100,000	ND		4.8	ND		4.6	ND		6
Methyl tert-butyl ether (MTBE)	930	100,000	ND		4.8	ND		4.6	ND		6
Methylene chloride	50	500,000	ND		9.6	ND		9.3	ND		12
Naphthalene	12,000	NE	ND		9.6	ND		9.3	ND		12
n-Butylbenzene	12,000	100,000	ND		4.8	ND		4.6	ND		6
n-Propylbenzene	3,900	100,000	ND		4.8	ND		4.6	ND		6
o-Xylene	NE	NE	ND		4.8	ND		4.6	ND		6
p- & m- Xylenes	NE	NE	ND		9.6	ND		9.3	ND		12
p-Isopropyltoluene	10,000	NE	ND		4.8	ND		4.6	ND		6
sec-Butylbenzene	11,000	100,000	ND		4.8	ND		4.6	ND		6
Styrene	NE	NE	ND		4.8	ND		4.6	ND		6
tert-Butylbenzene	5,900	100,000	ND		4.8	ND		4.6	ND		6
Tetrachloroethylene	1,300	19,000	3.2	J	4.8	ND		4.6	ND		6
Toluene	700	100,000	ND		4.8	ND		4.6	ND		6
trans-1,2-Dichloroethylene	190	100,000	ND		4.8	ND		4.6	ND		6
trans-1,3-Dichloropropylene	NE	NE	ND		4.8	ND		4.6	ND		6
Trichloroethylene	470	21,000	**2,700**		480	7.4		4.6	33		6
Trichlorofluoromethane	NE	NE	ND		4.8	ND		4.6	ND		6
Vinyl acetate	NE	NE	ND		4.8	ND		4.6	ND		6
Vinyl Chloride	20	900	6.2		4.8	ND		4.6	ND		6
Xylenes, Total	260	100,000	ND		14	ND		14	ND		18
Total TICs	NE	NE	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs) Unrestricted	Restricted-Residential	MW-36 (11-12) (2014-07-30) Result	Flag	RL	MW-37 (11-12) (2014-07-30) Result	Flag	RL	MW-Dup-01 (2014-07-30) (mw-37 11-12) Result	Flag	RL
1,1,1,2-Tetrachloroethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,1,1-Trichloroethane	680	100,000	ND		2.5	ND		2.6	ND		2.9
1,1,2,2-Tetrachloroethane	NE	NE	ND		2.5	ND		2.6	ND		2.9
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		2.5	ND		2.6	ND		2.9
1,1,2-Trichloroethane	NE	NE	ND		2.5	ND		2.6	ND		2.9
1,1-Dichloroethane	270	26,000	ND		2.5	ND		2.6	ND		2.9
1,1-Dichloroethylene	330	100,000	ND		2.5	ND		2.6	ND		2.9
1,1-Dichloropropylene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,4-Trichlorobenzene	NE	NE	ND		2.5	ND		2.6	ND		2.9
1,2,4-Trimethylbenzene	3,600	52,000	ND		2.5	ND		2.6	ND		2.9
1,2-Dibromo-3-chloropropane	NE	NE	ND		2.5	ND		2.6	ND		2.9
1,2-Dibromoethane	NE	NE	ND		2.5	ND		2.6	ND		2.9
1,2-Dichlorobenzene	1,100	100,000	ND		2.5	ND		2.6	ND		2.9
1,2-Dichloroethane	20	3,100	ND		2.5	ND		2.6	ND		2.9
1,2-Dichloropropane	NE	NE	ND		2.5	ND		2.6	ND		2.9
1,3,5-Trimethylbenzene	8,400	52,000	ND		2.5	ND		2.6	ND		2.9
1,3-Dichlorobenzene	2,400	49,000	*NA*		-	*NA*		-	*NA*		-
1,3-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,4-Dichlorobenzene	1,800	13,000	*NA*		-	*NA*		-	*NA*		-
1,4-Dioxane	100	13,000	*NA*		-	*NA*		-	*NA*		-
2,2-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Butanone	120	100,000	ND		2.5	ND		2.6	ND		2.9
2-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Hexanone	NE	NE	ND		2.5	ND		2.6	ND		2.9
4-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Methyl-2-pentanone	NE	NE	ND		2.5	ND		2.6	ND		2.9
Acetone	50	100,000	20		2.5	12		2.6	38		2.9
Benzene	60	4,800	ND		2.5	ND		2.6	ND		2.9
Bromobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromochloromethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromodichloromethane	NE	NE	ND		2.5	ND		2.6	ND		2.9
Bromoform	NE	NE	ND		2.5	ND		2.6	ND		2.9
Bromomethane	NE	NE	ND		2.5	ND		2.6	ND		2.9
Carbon disulfide	NE	100	ND		2.5	ND		2.6	ND		2.9
Carbon tetrachloride	760	2,400	ND		2.5	ND		2.6	ND		2.9
Chlorobenzene	1,100	100,000	ND		2.5	ND		2.6	ND		2.9
Chloroethane	NE	NE	ND		2.5	ND		2.6	ND		2.9
Chloroform	370	49,000	ND		2.5	ND		2.6	ND		2.9
Chloromethane	NE	NE	ND		2.5	ND		2.6	ND		2.9
cis-1,2-Dichloroethylene	250	100,000	ND		2.5	ND		2.6	ND		2.9
cis-1,3-Dichloropropylene	NE	NE	ND		2.5	ND		2.6	ND		2.9
Dibromochloromethane	NE	NE	ND		2.5	ND		2.6	ND		2.9
Dibromomethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Dichlorodifluoromethane	NE	NE	ND		2.5	ND		2.6	ND		2.9
Ethyl Benzene	1,000	41,000	ND		2.5	ND		2.6	ND		2.9
Hexachlorobutadiene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Isopropylbenzene	2,300	100,000	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	930	100,000	ND		2.5	ND		2.6	ND		2.9
Methylene chloride	50	500,000	ND		2.5	3.5	J	2.6	ND		2.9
Naphthalene	12,000	NE	ND		2.5	ND		2.6	ND		2.9
n-Butylbenzene	12,000	100,000	ND		2.5	ND		2.6	ND		2.9
n-Propylbenzene	3,900	100,000	ND		2.5	ND		2.6	ND		2.9
o-Xylene	NE	NE	ND		2.5	ND		2.6	ND		2.9
p- & m- Xylenes	NE	NE	ND		2.5	ND		2.6	ND		2.9
p-Isopropyltoluene	10,000	NE	*NA*		-	*NA*		-	*NA*		-
sec-Butylbenzene	11,000	100,000	ND		2.5	ND		2.6	ND		2.9
Styrene	NE	NE	ND		2.5	ND		2.6	ND		2.9
tert-Butylbenzene	5,900	100,000	ND		2.5	ND		2.6	ND		2.9
Tetrachloroethylene	1,300	19,000	ND		2.5	ND		2.6	ND		2.9
Toluene	700	100,000	ND		2.5	ND		2.6	ND		2.9
trans-1,2-Dichloroethylene	190	100,000	ND		2.5	ND		2.6	ND		2.9
trans-1,3-Dichloropropylene	NE	NE	ND		2.5	ND		2.6	ND		2.9
Trichloroethylene	470	21,000	ND		2.5	ND		2.6	ND		2.9
Trichlorofluoromethane	NE	NE	ND		2.5	ND		2.6	ND		2.9
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		2.5	ND		2.6	ND		2.9
Xylenes, Total	260	100,000	ND		2.5	ND		2.6	ND		2.9
Total TICs	NE	NE	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		MW-38 (0-5) (2014-09-23)			MW-38 (10-15) (2014-09-23)			MW-39 (0-5) (2014-09-23)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,1,1,2-Tetrachloroethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,1,1-Trichloroethane	680	100,000	ND		4.2	ND		4.9	ND		4.9
1,1,2,2-Tetrachloroethane	NE	NE	ND		4.2	ND		4.9	ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		4.2	ND		4.9	ND		4.9
1,1,2-Trichloroethane	NE	NE	ND		4.2	ND		4.9	ND		4.9
1,1-Dichloroethane	270	26,000	ND		4.2	ND		4.9	ND		4.9
1,1-Dichloroethylene	330	100,000	ND		4.2	ND		4.9	ND		4.9
1,1-Dichloropropylene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,4-Trichlorobenzene	NE	NE	ND		4.2	ND		4.9	ND		4.9
1,2,4-Trimethylbenzene	3,600	52,000	ND		4.2	ND		4.9	ND		4.9
1,2-Dibromo-3-chloropropane	NE	NE	ND		4.2	ND		4.9	ND		4.9
1,2-Dibromoethane	NE	NE	ND		4.2	ND		4.9	ND		4.9
1,2-Dichlorobenzene	1,100	100,000	*NA*		-	*NA*		-	*NA*		-
1,2-Dichloroethane	20	3,100	ND		4.2	ND		4.9	ND		4.9
1,2-Dichloropropane	NE	NE	ND		4.2	ND		4.9	ND		4.9
1,3,5-Trimethylbenzene	8,400	52,000	ND		4.2	ND		4.9	ND		4.9
1,3-Dichlorobenzene	2,400	49,000	*NA*		-	*NA*		-	*NA*		-
1,3-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,4-Dichlorobenzene	1,800	13,000	*NA*		-	*NA*		-	*NA*		-
1,4-Dioxane	100	13,000	*NA*		-	*NA*		-	*NA*		-
2,2-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Butanone	120	100,000	ND		4.2	ND		4.9	ND		4.9
2-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Hexanone	NE	NE	ND		4.2	ND		4.9	ND		4.9
4-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Methyl-2-pentanone	NE	NE	ND		4.2	ND		4.9	ND		4.9
Acetone	50	100,000	28		8.5	14		9.8	31		9.8
Benzene	60	4,800	ND		4.2	ND		4.9	ND		4.9
Bromobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromochloromethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromodichloromethane	NE	NE	ND		4.2	ND		4.9	ND		4.9
Bromoform	NE	NE	ND		4.2	ND		4.9	ND		4.9
Bromomethane	NE	NE	ND		4.2	ND		4.9	ND		4.9
Carbon disulfide	NE	100	ND		4.2	ND		4.9	ND		4.9
Carbon tetrachloride	760	2,400	ND		4.2	ND		4.9	ND		4.9
Chlorobenzene	1,100	100,000	ND		4.2	ND		4.9	ND		4.9
Chloroethane	NE	NE	ND		4.2	ND		4.9	ND		4.9
Chloroform	370	49,000	ND		4.2	ND		4.9	ND		4.9
Chloromethane	NE	NE	ND		4.2	ND		4.9	ND		4.9
cis-1,2-Dichloroethylene	250	100,000	ND		4.2	ND		4.9	ND		4.9
cis-1,3-Dichloropropylene	NE	NE	ND		4.2	ND		4.9	ND		4.9
Dibromochloromethane	NE	NE	ND		4.2	ND		4.9	ND		4.9
Dibromomethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Dichlorodifluoromethane	NE	NE	ND		4.2	ND		4.9	ND		4.9
Ethyl Benzene	1,000	41,000	ND		4.2	ND		4.9	ND		4.9
Hexachlorobutadiene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Isopropylbenzene	2,300	100,000	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	930	100,000	ND		4.2	ND		4.9	ND		4.9
Methylene chloride	50	500,000	7.5	J	8.5	ND		9.8	7.9	J	9.8
Naphthalene	12,000	NE	ND		8.5	ND		9.8	ND		9.8
n-Butylbenzene	12,000	100,000	ND		4.2	ND		4.9	ND		4.9
n-Propylbenzene	3,900	100,000	ND		4.2	ND		4.9	ND		4.9
o-Xylene	NE	NE	ND		4.2	ND		4.9	ND		4.9
p- & m- Xylenes	NE	NE	ND		8.5	ND		9.8	ND		9.8
p-Isopropyltoluene	10,000	NE	*NA*		-	*NA*		-	*NA*		-
sec-Butylbenzene	11,000	100,000	ND		4.2	ND		4.9	ND		4.9
Styrene	NE	NE	ND		4.2	ND		4.9	ND		4.9
tert-Butylbenzene	5,900	100,000	ND		4.2	ND		4.9	ND		4.9
Tetrachloroethylene	1,300	19,000	ND		4.2	ND		4.9	ND		4.9
Toluene	700	100,000	ND		4.2	ND		4.9	ND		4.9
trans-1,2-Dichloroethylene	190	100,000	ND		4.2	ND		4.9	ND		4.9
trans-1,3-Dichloropropylene	NE	NE	ND		4.2	ND		4.9	ND		4.9
Trichloroethylene	470	21,000	ND		4.2	ND		4.9	ND		4.9
Trichlorofluoromethane	NE	NE	ND		4.2	ND		4.9	ND		4.9
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		4.2	ND		4.9	ND		4.9
Xylenes, Total	260	100,000	ND		13	ND		15	ND		15
Total TICs	NE	NE	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		MW-39 (10-11) (2014-09-23)			MW-40 (0-5) (2014-09-24)			MW-40 (15-20) (2014-09-24)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,1,1,2-Tetrachloroethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,1,1-Trichloroethane	680	100,000	ND		5.3	ND		6.2	ND		15
1,1,2,2-Tetrachloroethane	NE	NE	ND		5.3	ND		6.2	ND		15
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		5.3	ND		6.2	ND		15
1,1,2-Trichloroethane	NE	NE	ND		5.3	ND		6.2	ND		15
1,1-Dichloroethane	270	26,000	ND		5.3	ND		6.2	ND		15
1,1-Dichloroethylene	330	100,000	ND		5.3	ND		6.2	ND		15
1,1-Dichloropropylene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,4-Trichlorobenzene	NE	NE	NA		-	ND		6.2	ND		15
1,2,4-Trimethylbenzene	3,600	52,000	ND		5.3	ND		6.2	ND		15
1,2-Dibromo-3-chloropropane	NE	NE	ND		5.3	ND		6.2	ND		15
1,2-Dibromoethane	NE	NE	ND		5.3	ND		6.2	ND		15
1,2-Dichlorobenzene	1,100	100,000	*NA*		-	*NA*		-	*NA*		-
1,2-Dichloroethane	20	3,100	ND		5.3	ND		6.2	ND		15
1,2-Dichloropropane	NE	NE	ND		5.3	ND		6.2	ND		15
1,3,5-Trimethylbenzene	8,400	52,000	ND		5.3	ND		6.2	ND		15
1,3-Dichlorobenzene	2,400	49,000	*NA*		-	*NA*		-	*NA*		-
1,3-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,4-Dichlorobenzene	1,800	13,000	*NA*		-	*NA*		-	*NA*		-
1,4-Dioxane	100	13,000	ND		110	*NA*		-	*NA*		-
2,2-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Butanone	120	100,000	9.1		5.3	ND		6.2	ND		15
2-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Hexanone	NE	NE	ND		5.3	ND		6.2	ND		15
4-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Methyl-2-pentanone	NE	NE	ND		5.3	ND		6.2	ND		15
Acetone	50	100,000	**55**		11	24	CCV-E	12	**140**		31
Benzene	60	4,800	ND		5.3	ND		6.2	ND		15
Bromobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromochloromethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromodichloromethane	NE	NE	ND		5.3	ND		6.2	ND		15
Bromoform	NE	NE	ND		5.3	ND		6.2	ND		15
Bromomethane	NE	NE	ND		5.3	ND		6.2	ND		15
Carbon disulfide	NE	100	5.7		5.3	ND		6.2	ND		15
Carbon tetrachloride	760	2,400	ND		5.3	ND		6.2	ND		15
Chlorobenzene	1,100	100,000	ND		5.3	ND		6.2	ND		15
Chloroethane	NE	NE	ND		5.3	ND		6.2	ND		15
Chloroform	370	49,000	ND		5.3	ND		6.2	ND		15
Chloromethane	NE	NE	ND		5.3	ND		6.2	ND		15
cis-1,2-Dichloroethylene	250	100,000	ND		5.3	ND		6.2	ND		15
cis-1,3-Dichloropropylene	NE	NE	ND		5.3	ND		6.2	ND		15
Dibromochloromethane	NE	NE	ND		5.3	ND		6.2	ND		15
Dibromomethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Dichlorodifluoromethane	NE	NE	ND		5.3	ND		6.2	ND		15
Ethyl Benzene	1,000	41,000	ND		5.3	ND		6.2	ND		15
Hexachlorobutadiene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Isopropylbenzene	2,300	100,000	ND		5.3	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	930	100,000	ND		5.3	ND		6.2	ND		15
Methylene chloride	50	500,000	8.3	J	11	ND		12	ND		31
Naphthalene	12,000	NE	*NA*		-	ND		12	ND		31
n-Butylbenzene	12,000	100,000	ND		5.3	ND		6.2	ND		15
n-Propylbenzene	3,900	100,000	ND		5.3	ND		6.2	ND		15
o-Xylene	NE	NE	ND		5.3	ND		6.2	ND		15
p- & m- Xylenes	NE	NE	ND		11	ND		12	ND		31
p-Isopropyltoluene	10,000	NE	ND		5.3	*NA*		-	*NA*		-
sec-Butylbenzene	11,000	100,000	ND		5.3	ND		6.2	ND		15
Styrene	NE	NE	ND		5.3	ND		6.2	ND		15
tert-Butylbenzene	5,900	100,000	ND		5.3	ND		6.2	ND		15
Tetrachloroethylene	1,300	19,000	ND		5.3	ND		6.2	ND		15
Toluene	700	100,000	ND		5.3	ND		6.2	ND		15
trans-1,2-Dichloroethylene	190	100,000	ND		5.3	ND		6.2	ND		15
trans-1,3-Dichloropropylene	NE	NE	ND		5.3	ND		6.2	ND		15
Trichloroethylene	470	21,000	ND		5.3	7.6		6.2	56		15
Trichlorofluoromethane	NE	NE	ND		5.3	ND		6.2	ND		15
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		5.3	ND		6.2	ND		15
Xylenes, Total	260	100,000	ND		16	ND		19	ND		46
Total TICs	NE	NE	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		MW-41 (8-10) (2014-12-10)			MW-Dup-02 (2014-12-10) (mw-41 8-10)			MW-42 (8-10) (2014-12-10)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,1,1,2-Tetrachloroethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,1,1-Trichloroethane	680	100,000	ND		6.8	ND		6.9	ND		5.7
1,1,2,2-Tetrachloroethane	NE	NE	ND		6.8	ND		6.9	ND		5.7
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		6.8	ND		6.9	ND		5.7
1,1,2-Trichloroethane	NE	NE	ND		6.8	ND		6.9	ND		5.7
1,1-Dichloroethane	270	26,000	ND		6.8	ND		6.9	ND		5.7
1,1-Dichloroethylene	330	100,000	ND		6.8	ND		6.9	ND		5.7
1,1-Dichloropropylene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		
1,2,3-Trichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		
1,2,4-Trichlorobenzene	NE	NE	ND		6.8	ND		6.9	ND		5.7
1,2,4-Trimethylbenzene	3,600	52,000	ND		6.8	ND		6.9	ND		5.7
1,2-Dibromo-3-chloropropane	NE	NE	ND		6.8	ND		6.9	ND		5.7
1,2-Dibromoethane	NE	NE	ND		6.8	ND		6.9	ND		5.7
1,2-Dichlorobenzene	1,100	100,000	*ND*		6.8	*ND*		6.9	*ND*		5.7
1,2-Dichloroethane	20	3,100	*NA*		-	*NA*		-	*NA*		-
1,2-Dichloropropane	NE	NE	ND		6.8	ND		6.9	ND		5.7
1,3,5-Trimethylbenzene	8,400	52,000	ND		6.8	ND		6.9	ND		5.7
1,3-Dichlorobenzene	2,400	49,000	*NA*		-	*NA*		-	*NA*		-
1,3-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		
1,4-Dichlorobenzene	1,800	13,000	*NA*		-	*NA*		-	*NA*		
1,4-Dioxane	100	13,000	*NA*		-	*NA*		-	*NA*		
2,2-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		
2-Butanone	120	100,000	ND		6.8	ND		6.9	ND		5.7
2-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Hexanone	NE	NE	ND		6.8	ND		6.9	ND		5.7
4-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Methyl-2-pentanone	NE	NE	ND		6.8	ND		6.9	ND		5.7
Acetone	50	100,000	13	J	14	16		14	12		11
Benzene	60	4,800	ND		6.8	ND		6.9	ND		5.7
Bromobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromochloromethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromodichloromethane	NE	NE	ND		6.8	ND		6.9	ND		5.7
Bromoform	NE	NE	ND		6.8	ND		6.9	ND		5.7
Bromomethane	NE	NE	ND		6.8	ND		6.9	ND		5.7
Carbon disulfide	NE	100	ND		6.8	ND		6.9	ND		5.7
Carbon tetrachloride	760	2,400	ND		6.8	ND		6.9	ND		5.7
Chlorobenzene	1,100	100,000	ND		6.8	ND		6.9	ND		5.7
Chloroethane	NE	NE	ND		6.8	ND		6.9	ND		5.7
Chloroform	370	49,000	ND		6.8	ND		6.9	ND		5.7
Chloromethane	NE	NE	ND		6.8	ND		6.9	ND		5.7
cis-1,2-Dichloroethylene	250	100,000	ND		6.8	ND		6.9	ND		5.7
cis-1,3-Dichloropropylene	NE	NE	ND		6.8	ND		6.9	ND		5.7
Dibromochloromethane	NE	NE	ND		6.8	ND		6.9	ND		5.7
Dibromomethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Dichlorodifluoromethane	NE	NE	ND		6.8	ND		6.9	ND		5.7
Ethyl Benzene	1,000	41,000	ND		6.8	ND		6.9	ND		5.7
Hexachlorobutadiene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Isopropylbenzene	2,300	100,000	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	930	100,000	ND		6.8	ND		6.9	ND		5.7
Methylene chloride	50	500,000	ND		14	ND		14	13		11
Naphthalene	12,000	NE	ND		14	ND		14	ND		11
n-Butylbenzene	12,000	100,000	ND		6.8	ND		6.9	ND		5.7
n-Propylbenzene	3,900	100,000	ND		6.8	ND		6.9	ND		5.7
o-Xylene	NE	NE	ND		6.8	ND		6.9	ND		5.7
p- & m- Xylenes	NE	NE	ND		14	ND		14	ND		11
p-Isopropyltoluene	10,000	NE	*NA*		-	*NA*		-	*NA*		-
sec-Butylbenzene	11,000	100,000	ND		6.8	ND		6.9	ND		5.7
Styrene	NE	NE	ND		6.8	ND		6.9	ND		5.7
tert-Butylbenzene	5,900	100,000	ND		6.8	ND		6.9	ND		5.7
Tetrachloroethylene	1,300	19,000	ND		6.8	ND		6.9	ND		5.7
Toluene	700	100,000	ND		6.8	ND		6.9	ND		5.7
trans-1,2-Dichloroethylene	190	100,000	ND		6.8	ND		6.9	ND		5.7
trans-1,3-Dichloropropylene	NE	NE	ND		6.8	ND		6.9	ND		5.7
Trichloroethylene	470	21,000	ND		6.8	ND		6.9	ND		5.7
Trichlorofluoromethane	NE	NE	ND		6.8	ND		6.9	ND		5.7
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		6.8	ND		6.9	ND		5.7
Xylenes, Total	260	100,000	ND		20	ND		21	ND		17
Total TICs	NE	NE	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		SB-60 (2012-02-01)	Note: Sampled from 12-14'		SB-60B (6-8) (2012-02-13)			SB-61 (2012-02-01)	Note: Sampled from 12-14'	
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		53	ND		550	ND		56
1,1,1-Trichloroethane	680	100,000	ND		53	ND		550	ND		56
1,1,2,2-Tetrachloroethane	NE	NE	ND		53	ND		550	ND		56
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		53	ND		550	ND		56
1,1,2-Trichloroethane	NE	NE	ND		53	ND		550	ND		56
1,1-Dichloroethane	270	26,000	ND		53	ND		550	ND		56
1,1-Dichloroethylene	330	100,000	ND		53	ND		550	ND		56
1,1-Dichloropropylene	NE	NE	ND		53	ND		550	ND		56
1,2,3-Trichlorobenzene	NE	NE	ND		110	ND		1,100	ND		110
1,2,3-Trichloropropane	NE	NE	ND		53	ND		550	ND		56
1,2,4-Trichlorobenzene	NE	NE	ND		110	ND		1,100	ND		110
1,2,4-Trimethylbenzene	3,600	52,000	350		53	**15,000**		550	510		56
1,2-Dibromo-3-chloropropane	NE	NE	ND		110	ND		1,100	ND		110
1,2-Dibromoethane	NE	NE	ND		53	ND		550	ND		56
1,2-Dichlorobenzene	1,100	100,000	82		53	ND		550	9.1	J	56
1,2-Dichloroethane	20	3,100	ND		53	ND		550	ND		56
1,2-Dichloropropane	NE	NE	ND		53	ND		550	ND		56
1,3,5-Trimethylbenzene	8,400	52,000	75		53	3,000		550	87		56
1,3-Dichlorobenzene	2,400	49,000	13	J	53	ND		550	ND		56
1,3-Dichloropropane	NE	NE	ND		53	ND		550	ND		56
1,4-Dichlorobenzene	1,800	13,000	13	J	53	ND		550	ND		56
1,4-Dioxane	100	13,000	*NA*	R	-	ND	R	5,500	*NA*		-
2,2-Dichloropropane	NE	NE	ND		53	ND		550	ND		56
2-Butanone	120	100,000	49	J	110	ND		1,100	ND		110
2-Chlorotoluene	NE	NE	ND		53	ND		550	ND		56
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		53	ND		550	ND		56
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	**180**		110	**2,400**	B	1,100	ND		110
Benzene	60	4,800	9.4	J	53	ND		550	ND		56
Bromobenzene	NE	NE	ND		53	ND		550	ND		56
Bromochloromethane	NE	NE	ND		53	ND		550	ND		56
Bromodichloromethane	NE	NE	ND		53	ND		550	ND		56
Bromoform	NE	NE	ND		53	ND		550	ND		56
Bromomethane	NE	NE	ND		53	ND		550	ND		56
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		53	ND		550	ND		56
Chlorobenzene	1,100	100,000	ND		53	ND		550	ND		56
Chloroethane	NE	NE	ND		53	ND		550	ND		56
Chloroform	370	49,000	ND		53	ND		550	ND		56
Chloromethane	NE	NE	ND		53	ND		550	ND		56
cis-1,2-Dichloroethylene	250	100,000	ND		53	ND		550	ND		56
cis-1,3-Dichloropropylene	NE	NE	ND		53	ND		550	ND		56
Dibromochloromethane	NE	NE	ND		53	ND		550	ND		56
Dibromomethane	NE	NE	ND		53	ND		550	ND		56
Dichlorodifluoromethane	NE	NE	ND		53	ND		550	ND		56
Ethyl Benzene	1,000	41,000	76		53	490	J	550	37	J	56
Hexachlorobutadiene	NE	NE	ND		53	ND		550	ND		56
Isopropylbenzene	2,300	100,000	220		53	290	J	550	42	J	56
Methyl tert-butyl ether (MTBE)	930	100,000	ND		53	ND		550	ND		56
Methylene chloride	50	500,000	22	B-Dil, B	11	**1,100**	B	1,100	12	B-Dil, B	11
Naphthalene	12,000	NE	66	J	110	7,000	B	1,100	65	J	110
n-Butylbenzene	12,000	100,000	350		53	ND		550	96		56
n-Propylbenzene	3,900	100,000	510		53	1,200		550	73		56
o-Xylene	NE	NE	100		53	970		550	49	J	56
p- & m- Xylenes	NE	NE	84	J	110	1,400		1,100	81	J	110
p-Isopropyltoluene	10,000	NE	83		53	2,100		550	56	J	56
sec-Butylbenzene	11,000	100,000	260		53	ND		550	54	J	56
Styrene	NE	NE	ND		53	ND		550	ND		56
tert-Butylbenzene	5,900	100,000	ND		53	ND		550	ND		56
Tetrachloroethylene	1,300	19,000	9.3	J	53	ND		550	ND		56
Toluene	700	100,000	44	J	53	250	J	550	43	J	56
trans-1,2-Dichloroethylene	190	100,000	ND		53	ND		550	ND		56
trans-1,3-Dichloropropylene	NE	NE	ND		53	ND		550	ND		56
Trichloroethylene	470	21,000	26	J	53	ND		550	16	J	56
Trichlorofluoromethane	NE	NE	ND		53	ND		550	ND		56
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		53	ND		550	ND		56
Xylenes, Total	260	100,000	190		160	**2,400**		1,600	130	J	170
Total TICs	NE	NE	5,672		-	27,200		-	2,200		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		SB-63 (14) (2012-02-10)			SB-65 (8-12) (2012-04-19)			SB-66 (12-16) (2012-04-19)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		6.2	ND		56	ND		5.6
1,1,1-Trichloroethane	680	100,000	ND		6.2	ND		56	ND		5.6
1,1,2,2-Tetrachloroethane	NE	NE	ND		6.2	ND		56	ND		5.6
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		6.2	ND		56	ND		5.6
1,1,2-Trichloroethane	NE	NE	ND		6.2	ND		56	ND		5.6
1,1-Dichloroethane	270	26,000	ND		6.2	ND		56	ND		5.6
1,1-Dichloroethylene	330	100,000	ND		6.2	ND		56	ND		5.6
1,1-Dichloropropylene	NE	NE	ND		6.2	ND		56	ND		5.6
1,2,3-Trichlorobenzene	NE	NE	ND		12	ND		110	ND		11
1,2,3-Trichloropropane	NE	NE	ND		6.2	ND		56	ND		5.6
1,2,4-Trichlorobenzene	NE	NE	ND		12	ND		110	ND		11
1,2,4-Trimethylbenzene	3,600	52,000	ND		6.2	110		56	ND		5.6
1,2-Dibromo-3-chloropropane	NE	NE	ND		12	ND		110	ND		11
1,2-Dibromoethane	NE	NE	ND		6.2	ND		56	ND		5.6
1,2-Dichlorobenzene	1,100	100,000	ND		6.2	ND		56	ND		5.6
1,2-Dichloroethane	20	3,100	ND		6.2	ND		56	ND		5.6
1,2-Dichloropropane	NE	NE	ND		6.2	ND		56	ND		5.6
1,3,5-Trimethylbenzene	8,400	52,000	ND		6.2	50	J	56	ND		5.6
1,3-Dichlorobenzene	2,400	49,000	ND		6.2	ND		56	ND		5.6
1,3-Dichloropropane	NE	NE	ND		6.2	ND		56	ND		5.6
1,4-Dichlorobenzene	1,800	13,000	ND		6.2	ND		56	ND		5.6
1,4-Dioxane	100	13,000	ND		62	ND	R	560	ND		56
2,2-Dichloropropane	NE	NE	ND		6.2	ND		56	ND		5.6
2-Butanone	120	100,000	110		12	ND		110	16		11
2-Chlorotoluene	NE	NE	ND		6.2	ND		56	ND		5.6
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		6.2	ND		56	ND		5.6
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	**270**	B	12	**51**	J, B	110	31	B	11
Benzene	60	4,800	ND		6.2	ND		56	ND		5.6
Bromobenzene	NE	NE	ND		6.2	ND		56	ND		5.6
Bromochloromethane	NE	NE	ND		6.2	ND		56	ND		5.6
Bromodichloromethane	NE	NE	ND		6.2	ND		56	ND		5.6
Bromoform	NE	NE	ND		6.2	ND		56	ND		5.6
Bromomethane	NE	NE	ND		6.2	ND		56	ND		5.6
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		6.2	ND		56	ND		5.6
Chlorobenzene	1,100	100,000	ND		6.2	ND		56	ND		5.6
Chloroethane	NE	NE	ND		6.2	ND		56	ND		5.6
Chloroform	370	49,000	ND		6.2	ND		56	ND		5.6
Chloromethane	NE	NE	ND		6.2	ND		56	ND		5.6
cis-1,2-Dichloroethylene	250	100,000	ND		6.2	120		56	ND		5.6
cis-1,3-Dichloropropylene	NE	NE	ND		6.2	ND		56	ND		5.6
Dibromochloromethane	NE	NE	ND		6.2	ND		56	ND		5.6
Dibromomethane	NE	NE	ND		6.2	ND		56	ND		5.6
Dichlorodifluoromethane	NE	NE	ND		6.2	ND		56	ND		5.6
Ethyl Benzene	1,000	41,000	2.4	J	6.2	48	J	56	ND		5.6
Hexachlorobutadiene	NE	NE	ND		6.2	ND		56	ND		5.6
Isopropylbenzene	2,300	100,000	ND		6.2	13	J	56	ND		5.6
Methyl tert-butyl ether (MTBE)	930	100,000	ND		6.2	ND		56	ND		5.6
Methylene chloride	50	500,000	25	B	12	**87**	J, B	110	13	B	11
Naphthalene	12,000	NE	ND		12	ND		110	ND		11
n-Butylbenzene	12,000	100,000	ND		6.2	ND		56	ND		5.6
n-Propylbenzene	3,900	100,000	ND		6.2	21	J	56	ND		5.6
o-Xylene	NE	NE	1.8	J	6.2	77		56	ND		5.6
p- & m- Xylenes	NE	NE	8.6	J	12	210		110	1.1	J	11
p-Isopropyltoluene	10,000	NE	ND		6.2	ND		56	ND		5.6
sec-Butylbenzene	11,000	100,000	ND		6.2	ND		56	ND		5.6
Styrene	NE	NE	ND		6.2	ND		56	ND		5.6
tert-Butylbenzene	5,900	100,000	ND		6.2	ND		56	ND		5.6
Tetrachloroethylene	1,300	19,000	ND		6.2	ND		56	ND		5.6
Toluene	700	100,000	ND		6.2	78		56	1.2	J	5.6
trans-1,2-Dichloroethylene	190	100,000	ND		6.2	ND		56	ND		5.6
trans-1,3-Dichloropropylene	NE	NE	ND		6.2	ND		56	ND		5.6
Trichloroethylene	470	21,000	ND		6.2	ND		56	2.7	J	5.6
Trichlorofluoromethane	NE	NE	ND		6.2	ND		56	ND		5.6
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		6.2	ND		56	ND		5.6
Xylenes, Total	260	100,000	10	J	19	**290**		170	ND		17
Total TICs	NE	NE	1,195		-	474		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		SB-67 (2012-02-02)	Note: Sampled from 12-14'		SB-69 (2012-02-01)			SB-71 (14) (2012-02-10)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		5.3	ND		6	ND		5.6
1,1,1-Trichloroethane	680	100,000	ND		5.3	ND		6	ND		5.6
1,1,2,2-Tetrachloroethane	NE	NE	ND		5.3	ND		6	ND		5.6
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		5.3	ND		6	ND		5.6
1,1,2-Trichloroethane	NE	NE	ND		5.3	ND		6	ND		5.6
1,1-Dichloroethane	270	26,000	21		5.3	ND		6	ND		5.6
1,1-Dichloroethylene	330	100,000	ND		5.3	ND		6	ND		5.6
1,1-Dichloropropylene	NE	NE	ND		5.3	ND		6	ND		5.6
1,2,3-Trichlorobenzene	NE	NE	ND		11	ND		12	ND		11
1,2,3-Trichloropropane	NE	NE	ND		5.3	ND		6	ND		5.6
1,2,4-Trichlorobenzene	NE	NE	ND		11	ND		12	ND		11
1,2,4-Trimethylbenzene	3,600	52,000	34		5.3	ND		6	5.3	J	5.6
1,2-Dibromo-3-chloropropane	NE	NE	ND		11	ND		12	ND		11
1,2-Dibromoethane	NE	NE	ND		5.3	ND		6	ND		5.6
1,2-Dichlorobenzene	1,100	100,000	5.2	J	5.3	ND		6	ND		5.6
1,2-Dichloroethane	20	3,100	ND		5.3	ND		6	ND		5.6
1,2-Dichloropropane	NE	NE	ND		5.3	ND		6	ND		5.6
1,3,5-Trimethylbenzene	8,400	52,000	15		5.3	ND		6	3	J	5.6
1,3-Dichlorobenzene	2,400	49,000	ND		5.3	ND		6	ND		5.6
1,3-Dichloropropane	NE	NE	ND		5.3	ND		6	ND		5.6
1,4-Dichlorobenzene	1,800	13,000	ND		5.3	ND		6	ND		5.6
1,4-Dioxane	100	13,000	*NA*		-	*NA*		-	ND	R	56
2,2-Dichloropropane	NE	NE	ND		5.3	ND		6	ND		5.6
2-Butanone	120	100,000	59		11	ND		12	5.8	J	11
2-Chlorotoluene	NE	NE	ND		5.3	ND		6	ND		5.6
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		5.3	ND		6	ND		5.6
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	**94**		11	33		12	**85**	B	11
Benzene	60	4,800	2.3	J	5.3	ND		6	ND		5.6
Bromobenzene	NE	NE	ND		5.3	ND		6	ND		5.6
Bromochloromethane	NE	NE	ND		5.3	ND		6	ND		5.6
Bromodichloromethane	NE	NE	ND		5.3	ND		6	ND		5.6
Bromoform	NE	NE	ND		5.3	ND		6	ND		5.6
Bromomethane	NE	NE	ND		5.3	ND		6	ND		5.6
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		5.3	ND		6	ND		5.6
Chlorobenzene	1,100	100,000	ND		5.3	ND		6	2.4	J	5.6
Chloroethane	NE	NE	2.6	J	5.3	ND		6	ND		5.6
Chloroform	370	49,000	ND		5.3	ND		6	ND		5.6
Chloromethane	NE	NE	ND		5.3	ND		6	ND		5.6
cis-1,2-Dichloroethylene	250	100,000	1.8	J	5.3	ND		6	ND		5.6
cis-1,3-Dichloropropylene	NE	NE	ND		5.3	ND		6	ND		5.6
Dibromochloromethane	NE	NE	ND		5.3	ND		6	ND		5.6
Dibromomethane	NE	NE	ND		5.3	ND		6	ND		5.6
Dichlorodifluoromethane	NE	NE	ND		5.3	ND		6	ND		5.6
Ethyl Benzene	1,000	41,000	5.6		5.3	ND		6	14		5.6
Hexachlorobutadiene	NE	NE	ND		5.3	ND		6	ND		5.6
Isopropylbenzene	2,300	100,000	7.8		5.3	ND		6	ND		5.6
Methyl tert-butyl ether (MTBE)	930	100,000	ND		5.3	ND		6	ND		5.6
Methylene chloride	50	500,000	**63**	B	11	10	J, B	12	**56**	B	11
Naphthalene	12,000	NE	8.8	J	11	ND		12	ND		11
n-Butylbenzene	12,000	100,000	11		5.3	ND		6	ND		5.6
n-Propylbenzene	3,900	100,000	8.6		5.3	ND		6	ND		5.6
o-Xylene	NE	NE	7.4		5.3	ND		6	6.3		5.6
p- & m- Xylenes	NE	NE	17		11	ND		12	40		11
p-Isopropyltoluene	10,000	NE	6.9		5.3	ND		6	ND		5.6
sec-Butylbenzene	11,000	100,000	6.4		5.3	ND		6	ND		5.6
Styrene	NE	NE	ND		5.3	ND		6	ND		5.6
tert-Butylbenzene	5,900	100,000	ND		5.3	ND		6	ND		5.6
Tetrachloroethylene	1,300	19,000	3.5	J	5.3	ND		6	ND		5.6
Toluene	700	100,000	24		5.3	ND		6	1.8	J	5.6
trans-1,2-Dichloroethylene	190	100,000	ND		5.3	ND		6	ND		5.6
trans-1,3-Dichloropropylene	NE	NE	ND		5.3	ND		6	ND		5.6
Trichloroethylene	470	21,000	10		5.3	1.9	J	6	ND		5.6
Trichlorofluoromethane	NE	NE	ND		5.3	ND		6	ND		5.6
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		5.3	ND		6	ND		5.6
Xylenes, Total	260	100,000	24		16	ND		18	47		17
Total TICs	NE	NE	680.7		-	33		-	967.8		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		SB-77A (8-12) (2012-04-19) (Spill Site)			SB-78A (8-12) (2012-04-19) (Spill Site)			2SB-2 (0-5)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		13	ND		12	ND		4.9
1,1,1-Trichloroethane	680	100,000	ND		13	ND		12	ND		4.9
1,1,2,2-Tetrachloroethane	NE	NE	ND		13	ND		12	ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		13	ND		12	ND		4.9
1,1,2-Trichloroethane	NE	NE	ND		13	ND		12	ND		4.9
1,1-Dichloroethane	270	26,000	ND		13	ND		12	ND		4.9
1,1-Dichloroethylene	330	100,000	ND		13	ND		12	ND		4.9
1,1-Dichloropropylene	NE	NE	ND		13	ND		12	ND		4.9
1,2,3-Trichlorobenzene	NE	NE	ND		26	ND		24	ND		4.9
1,2,3-Trichloropropane	NE	NE	ND		13	ND		12	ND		4.9
1,2,4-Trichlorobenzene	NE	NE	ND		26	ND		24	ND		4.9
1,2,4-Trimethylbenzene	3,600	52,000	ND		13	ND		12	ND		4.9
1,2-Dibromo-3-chloropropane	NE	NE	ND		26	ND		24	ND		4.9
1,2-Dibromoethane	NE	NE	ND		13	ND		12	ND		4.9
1,2-Dichlorobenzene	1,100	100,000	ND		13	ND		12	ND		4.9
1,2-Dichloroethane	20	3,100	ND		13	ND		12	ND		4.9
1,2-Dichloropropane	NE	NE	ND		13	ND		12	ND		4.9
1,3,5-Trimethylbenzene	8,400	52,000	ND		13	ND		12	ND		4.9
1,3-Dichlorobenzene	2,400	49,000	ND		13	ND		12	ND		4.9
1,3-Dichloropropane	NE	NE	ND		13	ND		12	ND		4.9
1,4-Dichlorobenzene	1,800	13,000	ND		13	ND		12	ND		4.9
1,4-Dioxane	100	13,000	ND		130	ND		120	ND		98
2,2-Dichloropropane	NE	NE	ND		13	ND		12	ND		4.9
2-Butanone	120	100,000	ND		26	ND		24	ND		4.9
2-Chlorotoluene	NE	NE	ND		13	ND		12	ND		4.9
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		13	ND		12	ND		4.9
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	25	J,B	26	22	J,B	24	4.3	J,B	9.8
Benzene	60	4,800	ND		13	ND		12	ND		4.9
Bromobenzene	NE	NE	ND		13	ND		12	ND		4.9
Bromochloromethane	NE	NE	ND		13	ND		12	ND		4.9
Bromodichloromethane	NE	NE	ND		13	ND		12	ND		4.9
Bromoform	NE	NE	ND		13	ND		12	ND		4.9
Bromomethane	NE	NE	ND		13	ND		12	ND		4.9
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		13	ND		12	ND		4.9
Chlorobenzene	1,100	100,000	ND		13	ND		12	ND		4.9
Chloroethane	NE	NE	ND		13	ND		12	ND		4.9
Chloroform	370	49,000	ND		13	ND		12	ND		4.9
Chloromethane	NE	NE	ND		13	ND		12	ND		4.9
cis-1,2-Dichloroethylene	250	100,000	ND		13	ND		12	23		4.9
cis-1,3-Dichloropropylene	NE	NE	ND		13	ND		12	ND		4.9
Dibromochloromethane	NE	NE	ND		13	ND		12	ND		4.9
Dibromomethane	NE	NE	ND		13	ND		12	ND		4.9
Dichlorodifluoromethane	NE	NE	ND		13	ND		12	ND		4.9
Ethyl Benzene	1,000	41,000	ND		13	ND		12	ND		4.9
Hexachlorobutadiene	NE	NE	ND		13	ND		12	ND		4.9
Isopropylbenzene	2,300	100,000	ND		13	ND		12	ND		4.9
Methyl tert-butyl ether (MTBE)	930	100,000	ND		13	ND		12	ND		4.9
Methylene chloride	50	500,000	22	J,B	26	20	J,B	24	ND		9.8
Naphthalene	12,000	NE	ND		26	ND		24	ND		9.8
n-Butylbenzene	12,000	100,000	ND		13	ND		12	ND		4.9
n-Propylbenzene	3,900	100,000	ND		13	ND		12	ND		4.9
o-Xylene	NE	NE	ND		13	ND		12	ND		4.9
p- & m- Xylenes	NE	NE	ND		26	ND		24	ND		9.8
p-Isopropyltoluene	10,000	NE	ND		13	ND		12	ND		4.9
sec-Butylbenzene	11,000	100,000	ND		13	ND		12	ND		4.9
Styrene	NE	NE	ND		13	ND		12	ND		4.9
tert-Butylbenzene	5,900	100,000	ND		13	ND		12	ND		4.9
Tetrachloroethylene	1,300	19,000	ND		13	ND		12	20		4.9
Toluene	700	100,000	ND		13	ND		12	ND		4.9
trans-1,2-Dichloroethylene	190	100,000	ND		13	ND		12	ND		4.9
trans-1,3-Dichloropropylene	NE	NE	ND		13	ND		12	ND		4.9
Trichloroethylene	470	21,000	ND		13	ND		12	**5,400**		490
Trichlorofluoromethane	NE	NE	ND		13	ND		12	ND		4.9
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	ND		4.9
Vinyl Chloride	20	900	ND		13	ND		12	ND		4.9
Xylenes, Total	260	100,000	ND		39	ND		35	ND		15
Total TICs	NE	NE	*NA*		-	*NA*		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		2SB-2 (10-15) (2013-08-01)			2SB-3 (10-15) (2013-08-01)			2SB-4 (0-5)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
1,1,1-Trichloroethane	680	100,000	ND		5.1	ND		5.6	ND		5.1
1,1,2,2-Tetrachloroethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
1,1,2-Trichloroethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
1,1-Dichloroethane	270	26,000	ND		5.1	ND		5.6	ND		5.1
1,1-Dichloroethylene	330	100,000	ND		5.1	ND		5.6	ND		5.1
1,1-Dichloropropylene	NE	NE	ND		5.1	ND		5.6	ND		5.1
1,2,3-Trichlorobenzene	NE	NE	ND		5.1	ND		5.6	ND		5.1
1,2,3-Trichloropropane	NE	NE	ND		5.1	ND		5.6	ND		5.1
1,2,4-Trichlorobenzene	NE	NE	ND		5.1	ND		5.6	ND		5.1
1,2,4-Trimethylbenzene	3,600	52,000	ND		5.1	ND		5.6	ND		5.1
1,2-Dibromo-3-chloropropane	NE	NE	ND		5.1	ND		5.6	ND		5.1
1,2-Dibromoethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
1,2-Dichlorobenzene	1,100	100,000	ND		5.1	ND		5.6	ND		5.1
1,2-Dichloroethane	20	3,100	ND		5.1	ND		5.6	ND		5.1
1,2-Dichloropropane	NE	NE	ND		5.1	ND		5.6	ND		5.1
1,3,5-Trimethylbenzene	8,400	52,000	ND		5.1	ND		5.6	ND		5.1
1,3-Dichlorobenzene	2,400	49,000	ND		5.1	ND		5.6	ND		5.1
1,3-Dichloropropane	NE	NE	ND		5.1	ND		5.6	ND		5.1
1,4-Dichlorobenzene	1,800	13,000	ND		5.1	ND		5.6	ND		5.1
1,4-Dioxane	100	13,000	ND	R	100	ND		110	ND		100
2,2-Dichloropropane	NE	NE	ND		5.1	ND		5.6	ND		5.1
2-Butanone	120	100,000	ND		5.1	ND		5.6	ND		5.1
2-Chlorotoluene	NE	NE	ND		5.1	ND		5.6	ND		5.1
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		5.1	ND		5.6	ND		5.1
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	ND		10	ND		11	ND		10
Benzene	60	4,800	ND		5.1	ND		5.6	ND		5.1
Bromobenzene	NE	NE	ND		5.1	ND		5.6	ND		5.1
Bromochloromethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
Bromodichloromethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
Bromoform	NE	NE	ND		5.1	ND		5.6	ND		5.1
Bromomethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		5.1	ND		5.6	ND		5.1
Chlorobenzene	1,100	100,000	ND		5.1	ND		5.6	ND		5.1
Chloroethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
Chloroform	370	49,000	ND		5.1	ND		5.6	ND		5.1
Chloromethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
cis-1,2-Dichloroethylene	250	100,000	21		5.1	15		5.6	ND		5.1
cis-1,3-Dichloropropylene	NE	NE	ND		5.1	ND		5.6	ND		5.1
Dibromochloromethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
Dibromomethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
Dichlorodifluoromethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
Ethyl Benzene	1,000	41,000	ND		5.1	ND		5.6	ND		5.1
Hexachlorobutadiene	NE	NE	ND		5.1	ND		5.6	ND		5.1
Isopropylbenzene	2,300	100,000	ND		5.1	ND		5.6	ND		5.1
Methyl tert-butyl ether (MTBE)	930	100,000	ND		5.1	ND		5.6	ND		5.1
Methylene chloride	50	500,000	ND		10	ND		11	ND		10
Naphthalene	12,000	NE	ND		10	ND		11	ND		10
n-Butylbenzene	12,000	100,000	ND		5.1	ND		5.6	ND		5.1
n-Propylbenzene	3,900	100,000	ND		5.1	ND		5.6	ND		5.1
o-Xylene	NE	NE	ND		5.1	ND		5.6	ND		5.1
p- & m- Xylenes	NE	NE	ND		10	ND		11	ND		10
p-Isopropyltoluene	10,000	NE	ND		5.1	ND		5.6	ND		5.1
sec-Butylbenzene	11,000	100,000	ND		5.1	ND		5.6	ND		5.1
Styrene	NE	NE	ND		5.1	ND		5.6	ND		5.1
tert-Butylbenzene	5,900	100,000	ND		5.1	ND		5.6	ND		5.1
Tetrachloroethylene	1,300	19,000	ND		5.1	ND		5.6	ND		5.1
Toluene	700	100,000	ND		5.1	ND		5.6	ND		5.1
trans-1,2-Dichloroethylene	190	100,000	ND		5.1	ND		5.6	ND		5.1
trans-1,3-Dichloropropylene	NE	NE	ND		5.1	ND		5.6	ND		5.1
Trichloroethylene	470	21,000	100		5.1	77		5.6	26		5.1
Trichlorofluoromethane	NE	NE	ND		5.1	ND		5.6	ND		5.1
Vinyl acetate	NE	NE	ND		5.1	ND		5.6	ND		5.1
Vinyl Chloride	20	900	ND		5.1	ND		5.6	ND		5.1
Xylenes, Total	260	100,000	ND		15	ND		17	ND		15
Total TICs	NE	NE	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		2SB-4 (10-15) (2013-08-01)			2SB-5 (10-15) (2013-08-01)			2SB-5A (2013-08-01)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
1,1,1-Trichloroethane	680	100,000	ND		3.4	ND		5.2	ND		4.7
1,1,2,2-Tetrachloroethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
1,1,2-Trichloroethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
1,1-Dichloroethane	270	26,000	ND		3.4	ND		5.2	ND		4.7
1,1-Dichloroethylene	330	100,000	ND		3.4	ND		5.2	ND		4.7
1,1-Dichloropropylene	NE	NE	ND		3.4	ND		5.2	ND		4.7
1,2,3-Trichlorobenzene	NE	NE	ND		3.4	ND		5.2	ND		4.7
1,2,3-Trichloropropane	NE	NE	ND		3.4	ND		5.2	ND		4.7
1,2,4-Trichlorobenzene	NE	NE	ND		3.4	ND		5.2	ND		4.7
1,2,4-Trimethylbenzene	3,600	52,000	ND		3.4	ND		5.2	ND		4.7
1,2-Dibromo-3-chloropropane	NE	NE	ND		3.4	ND		5.2	ND		4.7
1,2-Dibromoethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
1,2-Dichlorobenzene	1,100	100,000	ND		3.4	ND		5.2	ND		4.7
1,2-Dichloroethane	20	3,100	ND		3.4	ND		5.2	ND		4.7
1,2-Dichloropropane	NE	NE	ND		3.4	ND		5.2	ND		4.7
1,3,5-Trimethylbenzene	8,400	52,000	ND		3.4	ND		5.2	ND		4.7
1,3-Dichlorobenzene	2,400	49,000	ND		3.4	ND		5.2	ND		4.7
1,3-Dichloropropane	NE	NE	ND		3.4	ND		5.2	ND		4.7
1,4-Dichlorobenzene	1,800	13,000	ND		3.4	ND		5.2	ND		4.7
1,4-Dioxane	100	13,000	ND		67	ND		100	ND		93
2,2-Dichloropropane	NE	NE	ND		3.4	ND		5.2	ND		4.7
2-Butanone	120	100,000	ND		3.4	ND		5.2	ND		4.7
2-Chlorotoluene	NE	NE	ND		3.4	ND		5.2	ND		4.7
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		3.4	ND		5.2	ND		4.7
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	2.4	J,B	6.7	ND		10	ND		9.3
Benzene	60	4,800	ND		3.4	ND		5.2	ND		4.7
Bromobenzene	NE	NE	ND		3.4	ND		5.2	ND		4.7
Bromochloromethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
Bromodichloromethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
Bromoform	NE	NE	ND		3.4	ND		5.2	ND		4.7
Bromomethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		3.4	ND		5.2	ND		4.7
Chlorobenzene	1,100	100,000	ND		3.4	ND		5.2	ND		4.7
Chloroethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
Chloroform	370	49,000	ND		3.4	ND		5.2	ND		4.7
Chloromethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
cis-1,2-Dichloroethylene	250	100,000	100		3.4	33		5.2	21		4.7
cis-1,3-Dichloropropylene	NE	NE	ND		3.4	ND		5.2	ND		4.7
Dibromochloromethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
Dibromomethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
Dichlorodifluoromethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
Ethyl Benzene	1,000	41,000	ND		3.4	ND		5.2	ND		4.7
Hexachlorobutadiene	NE	NE	ND		3.4	ND		5.2	ND		4.7
Isopropylbenzene	2,300	100,000	ND		3.4	ND		5.2	ND		4.7
Methyl tert-butyl ether (MTBE)	930	100,000	ND		3.4	ND		5.2	ND		4.7
Methylene chloride	50	500,000	ND		6.7	ND		10	ND		9.3
Naphthalene	12,000	NE	ND		6.7	ND		10	ND		9.3
n-Butylbenzene	12,000	100,000	ND		3.4	ND		5.2	ND		4.7
n-Propylbenzene	3,900	100,000	ND		3.4	ND		5.2	ND		4.7
o-Xylene	NE	NE	ND		3.4	ND		5.2	ND		4.7
p- & m- Xylenes	NE	NE	ND		6.7	ND		10	ND		9.3
p-Isopropyltoluene	10,000	NE	ND		3.4	ND		5.2	ND		4.7
sec-Butylbenzene	11,000	100,000	ND		3.4	ND		5.2	ND		4.7
Styrene	NE	NE	ND		3.4	ND		5.2	ND		4.7
tert-Butylbenzene	5,900	100,000	ND		3.4	ND		5.2	ND		4.7
Tetrachloroethylene	1,300	19,000	ND		3.4	ND		5.2	ND		4.7
Toluene	700	100,000	ND		3.4	ND		5.2	ND		4.7
trans-1,2-Dichloroethylene	190	100,000	ND		3.4	ND		5.2	ND		4.7
trans-1,3-Dichloropropylene	NE	NE	ND		3.4	ND		5.2	ND		4.7
Trichloroethylene	470	21,000	190	J	340	66		5.2	44		4.7
Trichlorofluoromethane	NE	NE	ND		3.4	ND		5.2	ND		4.7
Vinyl acetate	NE	NE	ND		3.4	ND		5.2	ND		4.7
Vinyl Chloride	20	900	ND		3.4	ND		5.2	ND		4.7
Xylenes, Total	260	100,000	ND		10	ND		16	ND		14
Total TICs	NE	NE	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		2SB-6 (10-15) (2013-08-01)			2SB-7 (10-15) (2013-08-01)			2SB-8 (10-15) (2013-08-01)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		6.9	ND		5	ND		6.4
1,1,1-Trichloroethane	680	100,000	ND		6.9	ND		5	ND		6.4
1,1,2,2-Tetrachloroethane	NE	NE	ND		6.9	ND		5	ND		6.4
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		6.9	ND		5	ND		6.4
1,1,2-Trichloroethane	NE	NE	ND		6.9	ND		5	ND		6.4
1,1-Dichloroethane	270	26,000	ND		6.9	ND		5	ND		6.4
1,1-Dichloroethylene	330	100,000	ND		6.9	ND		5	ND		6.4
1,1-Dichloropropylene	NE	NE	ND		6.9	ND		5	ND		6.4
1,2,3-Trichlorobenzene	NE	NE	ND		6.9	ND		5	ND		6.4
1,2,3-Trichloropropane	NE	NE	ND		6.9	ND		5	ND		6.4
1,2,4-Trichlorobenzene	NE	NE	ND		6.9	ND		5	ND		6.4
1,2,4-Trimethylbenzene	3,600	52,000	ND		6.9	ND		5	ND		6.4
1,2-Dibromo-3-chloropropane	NE	NE	ND		6.9	ND		5	ND		6.4
1,2-Dibromoethane	NE	NE	ND		6.9	ND		5	ND		6.4
1,2-Dichlorobenzene	1,100	100,000	ND		6.9	ND		5	ND		6.4
1,2-Dichloroethane	20	3,100	ND		6.9	ND		5	ND		6.4
1,2-Dichloropropane	NE	NE	ND		6.9	ND		5	ND		6.4
1,3,5-Trimethylbenzene	8,400	52,000	ND		6.9	ND		5	ND		6.4
1,3-Dichlorobenzene	2,400	49,000	ND		6.9	ND		5	ND		6.4
1,3-Dichloropropane	NE	NE	ND		6.9	ND		5	ND		6.4
1,4-Dichlorobenzene	1,800	13,000	ND		6.9	ND		5	ND		6.4
1,4-Dioxane	100	13,000	ND		140	ND		100	ND		130
2,2-Dichloropropane	NE	NE	ND		6.9	ND		5	ND		6.4
2-Butanone	120	100,000	ND		6.9	ND		5	ND		6.4
2-Chlorotoluene	NE	NE	ND		6.9	ND		5	ND		6.4
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		6.9	ND		5	ND		6.4
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	16	B	14	2.6	J,B	10	ND		13
Benzene	60	4,800	ND		6.9	ND		5	ND		6.4
Bromobenzene	NE	NE	ND		6.9	ND		5	ND		6.4
Bromochloromethane	NE	NE	ND		6.9	ND		5	ND		6.4
Bromodichloromethane	NE	NE	ND		6.9	ND		5	ND		6.4
Bromoform	NE	NE	ND		6.9	ND		5	ND		6.4
Bromomethane	NE	NE	ND		6.9	ND		5	ND		6.4
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		6.9	ND		5	ND		6.4
Chlorobenzene	1,100	100,000	ND		6.9	ND		5	ND		6.4
Chloroethane	NE	NE	ND		6.9	ND		5	ND		6.4
Chloroform	370	49,000	ND		6.9	ND		5	ND		6.4
Chloromethane	NE	NE	ND		6.9	ND		5	ND		6.4
cis-1,2-Dichloroethylene	250	100,000	ND		6.9	ND		5	ND		6.4
cis-1,3-Dichloropropylene	NE	NE	ND		6.9	ND		5	ND		6.4
Dibromochloromethane	NE	NE	ND		6.9	ND		5	ND		6.4
Dibromomethane	NE	NE	ND		6.9	ND		5	ND		6.4
Dichlorodifluoromethane	NE	NE	ND		6.9	ND		5	ND		6.4
Ethyl Benzene	1,000	41,000	ND		6.9	ND		5	ND		6.4
Hexachlorobutadiene	NE	NE	ND		6.9	ND		5	ND		6.4
Isopropylbenzene	2,300	100,000	ND		6.9	ND		5	ND		6.4
Methyl tert-butyl ether (MTBE)	930	100,000	ND		6.9	ND		5	ND		6.4
Methylene chloride	50	500,000	ND		14	ND		10	ND		13
Naphthalene	12,000	NE	ND		14	ND		10	ND		13
n-Butylbenzene	12,000	100,000	ND		6.9	ND		5	ND		6.4
n-Propylbenzene	3,900	100,000	ND		6.9	ND		5	ND		6.4
o-Xylene	NE	NE	ND		6.9	ND		5	ND		6.4
p- & m- Xylenes	NE	NE	ND		14	ND		10	ND		13
p-Isopropyltoluene	10,000	NE	ND		6.9	ND		5	ND		6.4
sec-Butylbenzene	11,000	100,000	ND		6.9	ND		5	ND		6.4
Styrene	NE	NE	ND		6.9	ND		5	ND		6.4
tert-Butylbenzene	5,900	100,000	ND		6.9	ND		5	ND		6.4
Tetrachloroethylene	1,300	19,000	ND		6.9	ND		5	ND		6.4
Toluene	700	100,000	ND		6.9	ND		5	ND		6.4
trans-1,2-Dichloroethylene	190	100,000	ND		6.9	ND		5	ND		6.4
trans-1,3-Dichloropropylene	NE	NE	ND		6.9	ND		5	ND		6.4
Trichloroethylene	470	21,000	3.8	J	6.9	4.1	J	5	ND		6.4
Trichlorofluoromethane	NE	NE	ND		6.9	ND		5	ND		6.4
Vinyl acetate	NE	NE	ND		6.9	ND		5	ND		6.4
Vinyl Chloride	20	900	ND		6.9	ND		5	ND		6.4
Xylenes, Total	260	100,000	ND		21	ND		15	ND		19
Total TICs	NE	NE	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		2SB-11 (10-15) (2013-08-01)			2SB-12 (2013-11-25)			2SB-13 (2013-11-25)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		5	ND		5	ND		5
1,1,1-Trichloroethane	680	100,000	ND		5	ND		5	ND		5
1,1,2,2-Tetrachloroethane	NE	NE	ND		5	ND		5	ND		5
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		5	ND		5	ND		5
1,1,2-Trichloroethane	NE	NE	ND		5	ND		5	ND		5
1,1-Dichloroethane	270	26,000	ND		5	ND		5	ND		5
1,1-Dichloroethylene	330	100,000	ND		5	ND		5	ND		5
1,1-Dichloropropylene	NE	NE	ND		5	ND		5	ND		5
1,2,3-Trichlorobenzene	NE	NE	ND		5	ND		5	ND		5
1,2,3-Trichloropropane	NE	NE	ND		5	ND		5	ND		5
1,2,4-Trichlorobenzene	NE	NE	ND		5	ND		5	ND		5
1,2,4-Trimethylbenzene	3,600	52,000	ND		5	ND		5	ND		5
1,2-Dibromo-3-chloropropane	NE	NE	ND		5	ND		5	ND		5
1,2-Dibromoethane	NE	NE	ND		5	ND		5	ND		5
1,2-Dichlorobenzene	1,100	100,000	ND		5	ND		5	ND		5
1,2-Dichloroethane	20	3,100	ND		5	ND		5	ND		5
1,2-Dichloropropane	NE	NE	ND		5	ND		5	ND		5
1,3,5-Trimethylbenzene	8,400	52,000	ND		5	ND		5	ND		5
1,3-Dichlorobenzene	2,400	49,000	ND		5	ND		5	ND		5
1,3-Dichloropropane	NE	NE	ND		5	ND		5	ND		5
1,4-Dichlorobenzene	1,800	13,000	ND		5	ND		5	ND		5
1,4-Dioxane	100	13,000	ND		100	ND		100	ND		100
2,2-Dichloropropane	NE	NE	ND		5	ND		5	ND		5
2-Butanone	120	100,000	ND		5	ND		5	ND		5
2-Chlorotoluene	NE	NE	ND		5	ND		5	ND		5
2-Hexanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	NE	NE	ND		5	ND		5	ND		5
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	*NA*		-
Acetone	50	100,000	ND		10	15	CCV-E	10	**88**	CCV-E	10
Benzene	60	4,800	ND		5	ND		5	ND		5
Bromobenzene	NE	NE	ND		5	ND		5	ND		5
Bromochloromethane	NE	NE	ND		5	ND		5	ND		5
Bromodichloromethane	NE	NE	ND		5	ND		5	ND		5
Bromoform	NE	NE	ND		5	ND		5	ND		5
Bromomethane	NE	NE	ND		5	ND		5	ND		5
Carbon disulfide	NE	100	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	760	2,400	ND		5	ND		5	ND		5
Chlorobenzene	1,100	100,000	ND		5	ND		5	ND		5
Chloroethane	NE	NE	ND		5	ND		5	ND		5
Chloroform	370	49,000	ND		5	ND		5	ND		5
Chloromethane	NE	NE	ND		5	ND		5	ND		5
cis-1,2-Dichloroethylene	250	100,000	ND		5	ND		5	ND		5
cis-1,3-Dichloropropylene	NE	NE	ND		5	ND		5	ND		5
Dibromochloromethane	NE	NE	ND		5	ND		5	ND		5
Dibromomethane	NE	NE	ND		5	ND		5	ND		5
Dichlorodifluoromethane	NE	NE	ND		5	ND		5	ND		5
Ethyl Benzene	1,000	41,000	ND		5	ND		5	ND		5
Hexachlorobutadiene	NE	NE	ND		5	ND		5	ND		5
Isopropylbenzene	2,300	100,000	ND		5	ND		5	ND		5
Methyl tert-butyl ether (MTBE)	930	100,000	ND		5	ND		5	ND		5
Methylene chloride	50	500,000	ND		10	ND		10	2.8	J, B	10
Naphthalene	12,000	NE	ND		10	ND		10	ND		10
n-Butylbenzene	12,000	100,000	ND		5	ND		5	ND		5
n-Propylbenzene	3,900	100,000	ND		5	ND		5	ND		5
o-Xylene	NE	NE	ND		5	ND		5	ND		5
p- & m- Xylenes	NE	NE	ND		10	ND		10	ND		10
p-Isopropyltoluene	10,000	NE	ND		5	ND		5	ND		5
sec-Butylbenzene	11,000	100,000	ND		5	ND		5	ND		5
Styrene	NE	NE	ND		5	ND		5	ND		5
tert-Butylbenzene	5,900	100,000	ND		5	ND		5	ND		5
Tetrachloroethylene	1,300	19,000	ND		5	2.9	J	5	11		5
Toluene	700	100,000	ND		5	ND		5	ND		5
trans-1,2-Dichloroethylene	190	100,000	ND		5	ND		5	ND		5
trans-1,3-Dichloropropylene	NE	NE	ND		5	ND		5	ND		5
Trichloroethylene	470	21,000	5.5		5	13		5	56		5
Trichlorofluoromethane	NE	NE	ND		5	ND		5	ND		5
Vinyl acetate	NE	NE	ND		5	ND		5	ND		5
Vinyl Chloride	20	900	ND		5	ND		5	ND		5
Xylenes, Total	260	100,000	ND		15	ND		15	ND		15
Total TICs	NE	NE	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		2SB-14 (2013-11-25)			2SB-15 (2013-11-25)			3SB-3A (0-5) (2014-09-22)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		5.1	ND		5.7	*NA*		-
1,1,1-Trichloroethane	680	100,000	ND		5.1	ND		5.7	ND		4.2
1,1,2,2-Tetrachloroethane	NE	NE	ND		5.1	ND		5.7	ND		4.2
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		5.1	ND		5.7	ND		4.2
1,1,2-Trichloroethane	NE	NE	ND		5.1	ND		5.7	ND		4.2
1,1-Dichloroethane	270	26,000	ND		5.1	ND		5.7	ND		4.2
1,1-Dichloroethylene	330	100,000	ND		5.1	ND		5.7	ND		4.2
1,1-Dichloropropylene	NE	NE	ND		5.1	ND		5.7	*NA*		-
1,2,3-Trichlorobenzene	NE	NE	ND		5.1	ND		5.7	*NA*		-
1,2,3-Trichloropropane	NE	NE	ND		5.1	ND		5.7	*NA*		-
1,2,4-Trichlorobenzene	NE	NE	ND		5.1	ND		5.7	ND		4.2
1,2,4-Trimethylbenzene	3,600	52,000	ND		5.1	ND		5.7	ND		4.2
1,2-Dibromo-3-chloropropane	NE	NE	ND		5.1	ND		5.7	ND		4.2
1,2-Dibromoethane	NE	NE	ND		5.1	ND		5.7	ND		4.2
1,2-Dichlorobenzene	1,100	100,000	ND		5.1	ND		5.7	*NA*		-
1,2-Dichloroethane	20	3,100	ND		5.1	ND		5.7	ND		4.2
1,2-Dichloropropane	NE	NE	ND		5.1	ND		5.7	ND		4.2
1,3,5-Trimethylbenzene	8,400	52,000	ND		5.1	ND		5.7	ND		4.2
1,3-Dichlorobenzene	2,400	49,000	ND		5.1	ND		5.7	*NA*		-
1,3-Dichloropropane	NE	NE	ND		5.1	ND		5.7	*NA*		-
1,4-Dichlorobenzene	1,800	13,000	ND		5.1	ND		5.7	*NA*		-
1,4-Dioxane	100	13,000	ND		100	ND		110	*NA*		-
2,2-Dichloropropane	NE	NE	ND		5.1	ND		5.7	*NA*		-
2-Butanone	120	100,000	29		5.1	ND		5.7	ND		4.2
2-Chlorotoluene	NE	NE	ND		5.1	ND		5.7	*NA*		-
2-Hexanone	NE	NE	*NA*		-	*NA*		-	ND		4.2
4-Chlorotoluene	NE	NE	ND		5.1	ND		5.7	*NA*		-
4-Methyl-2-pentanone	NE	NE	*NA*		-	*NA*		-	ND		4.2
Acetone	50	100,000	**650**	CCV-E, E	10	**130**	CCV-E	11	15	al-E, CCV	8.5
Benzene	60	4,800	ND		5.1	ND		5.7	ND		4.2
Bromobenzene	NE	NE	ND		5.1	ND		5.7	*NA*		-
Bromochloromethane	NE	NE	ND		5.1	ND		5.7	*NA*		-
Bromodichloromethane	NE	NE	ND		5.1	ND		5.7	ND		4.2
Bromoform	NE	NE	ND		5.1	ND		5.7	ND		4.2
Bromomethane	NE	NE	ND		5.1	ND		5.7	ND		4.2
Carbon disulfide	NE	100	*NA*		-	*NA*		-	ND		4.2
Carbon tetrachloride	760	2,400	ND		5.1	ND		5.7	ND		4.2
Chlorobenzene	1,100	100,000	ND		5.1	ND		5.7	ND		4.2
Chloroethane	NE	NE	ND		5.1	ND		5.7	ND		4.2
Chloroform	370	49,000	ND		5.1	ND		5.7	ND		4.2
Chloromethane	NE	NE	ND		5.1	ND		5.7	ND		4.2
cis-1,2-Dichloroethylene	250	100,000	ND		5.1	ND		5.7	ND		4.2
cis-1,3-Dichloropropylene	NE	NE	ND		5.1	ND		5.7	ND		4.2
Dibromochloromethane	NE	NE	ND		5.1	ND		5.7	ND		4.2
Dibromomethane	NE	NE	ND		5.1	ND		5.7	*NA*		-
Dichlorodifluoromethane	NE	NE	ND		5.1	ND		5.7	ND		4.2
Ethyl Benzene	1,000	41,000	ND		5.1	ND		5.7	ND		4.2
Hexachlorobutadiene	NE	NE	ND		5.1	ND		5.7	*NA*		-
Isopropylbenzene	2,300	100,000	ND		5.1	ND		5.7	*NA*		-
Methyl tert-butyl ether (MTBE)	930	100,000	ND		5.1	ND		5.7	ND		4.2
Methylene chloride	50	500,000	2.6	J, B	10	3.3	J, B	11	4.8	J	8.5
Naphthalene	12,000	NE	ND		10	ND		11	ND		8.5
n-Butylbenzene	12,000	100,000	ND		5.1	ND		5.7	ND		4.2
n-Propylbenzene	3,900	100,000	ND		5.1	ND		5.7	ND		4.2
o-Xylene	NE	NE	ND		5.1	ND		5.7	ND		4.2
p- & m- Xylenes	NE	NE	ND		10	ND		11	ND		8.5
p-Isopropyltoluene	10,000	NE	ND		5.1	ND		5.7	*NA*		-
sec-Butylbenzene	11,000	100,000	ND		5.1	ND		5.7	ND		4.2
Styrene	NE	NE	ND		5.1	ND		5.7	ND		4.2
tert-Butylbenzene	5,900	100,000	ND		5.1	ND		5.7	ND		4.2
Tetrachloroethylene	1,300	19,000	ND		5.1	7.5		5.7	ND		4.2
Toluene	700	100,000	3.4	J	5.1	ND		5.7	ND		4.2
trans-1,2-Dichloroethylene	190	100,000	ND		5.1	ND		5.7	ND		4.2
trans-1,3-Dichloropropylene	NE	NE	ND		5.1	ND		5.7	ND		4.2
Trichloroethylene	470	21,000	26		5.1	110		5.7	12		4.2
Trichlorofluoromethane	NE	NE	ND		5.1	ND		5.7	ND		4.2
Vinyl acetate	NE	NE	ND		5.1	ND		5.7	*NA*		-
Vinyl Chloride	20	900	ND		5.1	ND		5.7	ND		4.2
Xylenes, Total	260	100,000	ND		15	ND		17	ND		13
Total TICs	NE	NE	ND		-	ND		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		3SB-3A (10-15) (2014-09-22)			3SB-3B (15-20) (2014-09-22)			3SB-4 (0-5) (2014-09-22)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,1,1,2-Tetrachloroethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,1,1-Trichloroethane	680	100,000	ND		530	ND		4.4	ND		4.8
1,1,2,2-Tetrachloroethane	NE	NE	ND		530	ND		4.4	ND		4.8
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		530	ND		4.4	ND		4.8
1,1,2-Trichloroethane	NE	NE	ND		530	ND		4.4	ND		4.8
1,1-Dichloroethane	270	26,000	ND		530	ND		4.4	ND		4.8
1,1-Dichloroethylene	330	100,000	ND		530	ND		4.4	ND		4.8
1,1-Dichloropropylene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,4-Trichlorobenzene	NE	NE	ND		530	ND		4.4	ND		4.8
1,2,4-Trimethylbenzene	3,600	52,000	ND		530	ND		4.4	ND		4.8
1,2-Dibromo-3-chloropropane	NE	NE	ND		530	ND		4.4	ND		4.8
1,2-Dibromoethane	NE	NE	ND		530	ND		4.4	ND		4.8
1,2-Dichlorobenzene	1,100	100,000	*NA*		-	*NA*		-	*NA*		-
1,2-Dichloroethane	20	3,100	ND		530	ND		4.4	ND		4.8
1,2-Dichloropropane	NE	NE	ND		530	ND		4.4	ND		4.8
1,3,5-Trimethylbenzene	8,400	52,000	ND		530	ND		4.4	ND		4.8
1,3-Dichlorobenzene	2,400	49,000	*NA*		-	*NA*		-	*NA*		-
1,3-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,4-Dichlorobenzene	1,800	13,000	*NA*		-	*NA*		-	*NA*		-
1,4-Dioxane	100	13,000	*NA*		-	*NA*		-	*NA*		-
2,2-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Butanone	120	100,000	ND		530	ND		8.8	ND		9.6
2-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Hexanone	NE	NE	ND		530	ND		4.4	ND		4.8
4-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Methyl-2-pentanone	NE	NE	ND		530	ND		4.4	ND		4.8
Acetone	50	100,000	ND		1,100	21		8.8	30		9.6
Benzene	60	4,800	ND		530	ND		4.4	ND		4.8
Bromobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromochloromethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromodichloromethane	NE	NE	ND		530	ND		4.4	ND		4.8
Bromoform	NE	NE	ND		530	ND		4.4	ND		4.8
Bromomethane	NE	NE	ND		530	ND		4.4	ND		4.8
Carbon disulfide	NE	100	ND		530	ND		4.4	ND		4.8
Carbon tetrachloride	760	2,400	ND		530	ND		4.4	ND		4.8
Chlorobenzene	1,100	100,000	ND		530	ND		4.4	ND		4.8
Chloroethane	NE	NE	ND		530	ND		4.4	ND		4.8
Chloroform	370	49,000	ND		530	ND		4.4	ND		4.8
Chloromethane	NE	NE	ND		530	ND		4.4	ND		4.8
cis-1,2-Dichloroethylene	250	100,000	**540**		530	19		4.4	ND		4.8
cis-1,3-Dichloropropylene	NE	NE	ND		530	ND		4.4	ND		4.8
Dibromochloromethane	NE	NE	ND		530	ND		4.4	ND		4.8
Dibromomethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Dichlorodifluoromethane	NE	NE	ND		530	ND		4.4	ND		4.8
Ethyl Benzene	1,000	41,000	ND		530	ND		4.4	ND		4.8
Hexachlorobutadiene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Isopropylbenzene	2,300	100,000	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	930	100,000	ND		530	ND		4.4	ND		4.8
Methylene chloride	50	500,000	ND		1,100	5.9	J	8.8	6.7	J	9.6
Naphthalene	12,000	NE	ND		1,100	ND		8.8	ND		9.6
n-Butylbenzene	12,000	100,000	ND		530	ND		4.4	ND		4.8
n-Propylbenzene	3,900	100,000	ND		530	ND		4.4	ND		4.8
o-Xylene	NE	NE	ND		530	ND		4.4	ND		4.8
p- & m- Xylenes	NE	NE	ND		1,100	ND		8.8	ND		9.6
p-Isopropyltoluene	10,000	NE	*NA*		-	*NA*		-	*NA*		-
sec-Butylbenzene	11,000	100,000	ND		530	ND		4.4	ND		4.8
Styrene	NE	NE	ND		530	ND		4.4	ND		4.8
tert-Butylbenzene	5,900	100,000	ND		530	ND		4.4	ND		4.8
Tetrachloroethylene	1,300	19,000	ND		530	ND		4.4	ND		4.8
Toluene	700	100,000	ND		530	ND		4.4	ND		4.8
trans-1,2-Dichloroethylene	190	100,000	ND		530	ND		4.4	ND		4.8
trans-1,3-Dichloropropylene	NE	NE	ND		530	ND		4.4	ND		4.8
Trichloroethylene	470	21,000	**14,000**		530	**2,600**		500	ND		4.8
Trichlorofluoromethane	NE	NE	ND		530	ND		4.4	ND		4.8
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		530	ND		4.4	ND		4.8
Xylenes, Total	260	100,000	ND		1,600	ND		13	ND		14
Total TICs	NE	NE	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		3SB-4 (15-20) (2014-09-22)			3SB-4 (20-25) (2014-09-22)			3SB-5 (0-5) (2014-09-22)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,1,1,2-Tetrachloroethane	NE	NE	NA		-	NA		-	NA		-
1,1,1-Trichloroethane	680	100,000	ND		4.9	ND		5.1	ND		5.1
1,1,2,2-Tetrachloroethane	NE	NE	ND		4.9	ND		5.1	ND		5.1
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		4.9	ND		5.1	ND		5.1
1,1,2-Trichloroethane	NE	NE	ND		4.9	ND		5.1	ND		5.1
1,1-Dichloroethane	270	26,000	ND		4.9	ND		5.1	ND		5.1
1,1-Dichloroethylene	330	100,000	2.8	J	4.9	ND		5.1	ND		5.1
1,1-Dichloropropylene	NE	NE	NA		-	NA		-	NA		-
1,2,3-Trichlorobenzene	NE	NE	NA		-	NA		-	NA		-
1,2,3-Trichloropropane	NE	NE	NA		-	NA		-	NA		-
1,2,4-Trichlorobenzene	NE	NE	ND		4.9	ND		5.1	ND		5.1
1,2,4-Trimethylbenzene	3,600	52,000	ND		4.9	ND		5.1	ND		5.1
1,2-Dibromo-3-chloropropane	NE	NE	ND		4.9	ND		5.1	ND		5.1
1,2-Dibromoethane	NE	NE	ND		4.9	ND		5.1	ND		5.1
1,2-Dichlorobenzene	1,100	100,000	NA		-	NA		-	NA		-
1,2-Dichloroethane	20	3,100	ND		4.9	ND		5.1	ND		5.1
1,2-Dichloropropane	NE	NE	ND		4.9	ND		5.1	ND		5.1
1,3,5-Trimethylbenzene	8,400	52,000	ND		4.9	ND		5.1	ND		5.1
1,3-Dichlorobenzene	2,400	49,000	NA		-	NA		-	NA		-
1,3-Dichloropropane	NE	NE	NA		-	NA		-	NA		-
1,4-Dichlorobenzene	1,800	13,000	NA		-	NA		-	NA		-
1,4-Dioxane	100	13,000	NA		-	NA		-	NA		-
2,2-Dichloropropane	NE	NE	NA		-	NA		-	NA		-
2-Butanone	120	100,000	ND		9.9	ND		5.1	ND		5.1
2-Chlorotoluene	NE	NE	NA		-	NA		-	NA		-
2-Hexanone	NE	NE	ND		4.9	ND		5.1	ND		5.1
4-Chlorotoluene	NE	NE	NA		-	NA		-	NA		-
4-Methyl-2-pentanone	NE	NE	ND		4.9	ND		5.1	ND		5.1
Acetone	50	100,000	11		9.9	27		10	20		10
Benzene	60	4,800	ND		4.9	ND		5.1	ND		5.1
Bromobenzene	NE	NE	NA		-	NA		-	NA		-
Bromochloromethane	NE	NE	NA		-	NA		-	NA		-
Bromodichloromethane	NE	NE	ND		4.9	ND		5.1	ND		5.1
Bromoform	NE	NE	ND		4.9	ND		5.1	ND		5.1
Bromomethane	NE	NE	ND		4.9	ND		5.1	ND		5.1
Carbon disulfide	NE	100	ND		4.9	ND		5.1	ND		5.1
Carbon tetrachloride	760	2,400	ND		4.9	ND		5.1	ND		5.1
Chlorobenzene	1,100	100,000	ND		4.9	ND		5.1	ND		5.1
Chloroethane	NE	NE	ND		4.9	ND		5.1	ND		5.1
Chloroform	370	49,000	ND		4.9	ND		5.1	ND		5.1
Chloromethane	NE	NE	ND		4.9	ND		5.1	ND		5.1
cis-1,2-Dichloroethylene	250	100,000	**2,400**		570	76		5.1	ND		5.1
cis-1,3-Dichloropropylene	NE	NE	ND		4.9	ND		5.1	ND		5.1
Dibromochloromethane	NE	NE	ND		4.9	ND		5.1	ND		5.1
Dibromomethane	NE	NE	NA		-	NA		-	NA		-
Dichlorodifluoromethane	NE	NE	ND		4.9	ND		5.1	ND		5.1
Ethyl Benzene	1,000	41,000	ND		4.9	ND		5.1	ND		5.1
Hexachlorobutadiene	NE	NE	NA		-	NA		-	NA		-
Isopropylbenzene	2,300	100,000	NA		-	NA		-	NA		-
Methyl tert-butyl ether (MTBE)	930	100,000	ND		4.9	ND		5.1	ND		5.1
Methylene chloride	50	500,000	ND		9.9	7.2	J	10	ND		10
Naphthalene	12,000	NE	ND		9.9	ND		10	ND		10
n-Butylbenzene	12,000	100,000	ND		4.9	ND		5.1	ND		5.1
n-Propylbenzene	3,900	100,000	ND		4.9	ND		5.1	ND		5.1
o-Xylene	NE	NE	ND		4.9	ND		5.1	ND		5.1
p- & m- Xylenes	NE	NE	ND		9.9	ND		10	ND		10
p-Isopropyltoluene	10,000	NE	NA		-	NA		-	NA		-
sec-Butylbenzene	11,000	100,000	ND		4.9	ND		5.1	ND		5.1
Styrene	NE	NE	ND		4.9	ND		5.1	ND		5.1
tert-Butylbenzene	5,900	100,000	ND		4.9	ND		5.1	ND		5.1
Tetrachloroethylene	1,300	19,000	ND		4.9	ND		5.1	ND		5.1
Toluene	700	100,000	ND		4.9	ND		5.1	ND		5.1
trans-1,2-Dichloroethylene	190	100,000	ND		4.9	ND		5.1	ND		5.1
trans-1,3-Dichloropropylene	NE	NE	ND		4.9	ND		5.1	ND		5.1
Trichloroethylene	470	21,000	**5,700**		570	**8,100**		530	ND		5.1
Trichlorofluoromethane	NE	NE	ND		4.9	ND		5.1	ND		5.1
Vinyl acetate	NE	NE	NA		-	NA		-	NA		-
Vinyl Chloride	20	900	**39**		4.9	ND		5.1	ND		5.1
Xylenes, Total	260	100,000	ND		15	ND		15	ND		15
Total TICs	NE	NE	NA		-	NA		-	NA		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		3SB-5 (10-15) (2014-09-22)			3SB-5 (15-20) (2014-09-22)			3SB-6 (20-25) (2014-09-24)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,1,1,2-Tetrachloroethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,1,1-Trichloroethane	680	100,000	ND		4.7	ND		4.1	ND		4.4
1,1,2,2-Tetrachloroethane	NE	NE	ND		4.7	ND		4.1	ND		4.4
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		4.7	ND		4.1	ND		4.4
1,1,2-Trichloroethane	NE	NE	ND		4.7	ND		4.1	ND		4.4
1,1-Dichloroethane	270	26,000	ND		4.7	ND		4.1	ND		4.4
1,1-Dichloroethylene	330	100,000	ND		4.7	ND		4.1	ND		4.4
1,1-Dichloropropylene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,4-Trichlorobenzene	NE	NE	ND		4.7	ND		4.1	ND		4.4
1,2,4-Trimethylbenzene	3,600	52,000	ND		4.7	ND		4.1	ND		4.4
1,2-Dibromo-3-chloropropane	NE	NE	ND		4.7	ND		4.1	ND		4.4
1,2-Dibromoethane	NE	NE	ND		4.7	ND		4.1	ND		4.4
1,2-Dichlorobenzene	1,100	100,000	*NA*		-	*NA*		-	*NA*		-
1,2-Dichloroethane	20	3,100	ND		4.7	ND		4.1	ND		4.4
1,2-Dichloropropane	NE	NE	ND		4.7	ND		4.1	ND		4.4
1,3,5-Trimethylbenzene	8,400	52,000	ND		4.7	ND		4.1	ND		4.4
1,3-Dichlorobenzene	2,400	49,000	*NA*		-	*NA*		-	*NA*		-
1,3-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,4-Dichlorobenzene	1,800	13,000	*NA*		-	*NA*		-	*NA*		-
1,4-Dioxane	100	13,000	*NA*		-	*NA*		-	*NA*		-
2,2-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Butanone	120	100,000	ND		4.7	ND		4.1	ND		4.4
2-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Hexanone	NE	NE	ND		4.7	ND		4.1	ND		4.4
4-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Methyl-2-pentanone	NE	NE	ND		4.7	ND		4.1	ND		4.4
Acetone	50	100,000	9.3	J	9.4	12		8.2	16		8.9
Benzene	60	4,800	ND		4.7	ND		4.1	ND		4.4
Bromobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromochloromethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromodichloromethane	NE	NE	ND		4.7	ND		4.1	ND		4.4
Bromoform	NE	NE	ND		4.7	ND		4.1	ND		4.4
Bromomethane	NE	NE	ND		4.7	ND		4.1	ND		4.4
Carbon disulfide	NE	100	ND		4.7	2	J	4.1	ND		4.4
Carbon tetrachloride	760	2,400	ND		4.7	ND		4.1	ND		4.4
Chlorobenzene	1,100	100,000	ND		4.7	ND		4.1	ND		4.4
Chloroethane	NE	NE	ND		4.7	ND		4.1	ND		4.4
Chloroform	370	49,000	ND		4.7	ND		4.1	ND		4.4
Chloromethane	NE	NE	ND		4.7	ND		4.1	ND		4.4
cis-1,2-Dichloroethylene	250	100,000	13		4.7	21		4.1	ND		4.4
cis-1,3-Dichloropropylene	NE	NE	ND		4.7	ND		4.1	ND		4.4
Dibromochloromethane	NE	NE	ND		4.7	ND		4.1	ND		4.4
Dibromomethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Dichlorodifluoromethane	NE	NE	ND		4.7	ND		4.1	ND		4.4
Ethyl Benzene	1,000	41,000	ND		4.7	ND		4.1	ND		4.4
Hexachlorobutadiene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Isopropylbenzene	2,300	100,000	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	930	100,000	ND		4.7	ND		4.1	ND		4.4
Methylene chloride	50	500,000	ND		9.4	ND		8.2	ND		8.9
Naphthalene	12,000	NE	ND		9.4	ND		8.2	ND		8.9
n-Butylbenzene	12,000	100,000	ND		4.7	ND		4.1	ND		4.4
n-Propylbenzene	3,900	100,000	ND		4.7	ND		4.1	ND		4.4
o-Xylene	NE	NE	ND		4.7	ND		4.1	ND		4.4
p- & m- Xylenes	NE	NE	ND		9.4	ND		8.2	ND		8.9
p-Isopropyltoluene	10,000	NE	*NA*		-	*NA*		-	*NA*		-
sec-Butylbenzene	11,000	100,000	ND		4.7	ND		4.1	ND		4.4
Styrene	NE	NE	ND		4.7	ND		4.1	ND		4.4
tert-Butylbenzene	5,900	100,000	ND		4.7	ND		4.1	ND		4.4
Tetrachloroethylene	1,300	19,000	ND		4.7	ND		4.1	ND		4.4
Toluene	700	100,000	ND		4.7	ND		4.1	ND		4.4
trans-1,2-Dichloroethylene	190	100,000	ND		4.7	ND		4.1	ND		4.4
trans-1,3-Dichloropropylene	NE	NE	ND		4.7	ND		4.1	ND		4.4
Trichloroethylene	470	21,000	99		4.7	**1,300**		350	ND		4.4
Trichlorofluoromethane	NE	NE	ND		4.7	ND		4.1	ND		4.4
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		14	ND		4.1	ND		4.4
Xylenes, Total	260	100,000	ND		7	ND		12	ND		13
Total TICs	NE	NE	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		3SB-6 (25-30) (2014-09-24)			3SB-7 (0-5) (2014-09-24)			3SB-7 (10-15) (2014-09-24)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,1,1,2-Tetrachloroethane	NE	NE	NA		-	NA		-	NA		-
1,1,1-Trichloroethane	680	100,000	ND		4.8	ND		4.3	ND		4.3
1,1,2,2-Tetrachloroethane	NE	NE	ND		4.8	ND		4.3	ND		4.3
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		4.8	ND		4.3	ND		4.3
1,1,2-Trichloroethane	NE	NE	ND		4.8	ND		4.3	ND		4.3
1,1-Dichloroethane	270	26,000	ND		4.8	ND		4.3	ND		4.3
1,1-Dichloroethylene	330	100,000	ND		4.8	ND		4.3	ND		4.3
1,1-Dichloropropylene	NE	NE	NA		-	NA		-	NA		-
1,2,3-Trichlorobenzene	NE	NE	NA		-	NA		-	NA		-
1,2,3-Trichloropropane	NE	NE	NA		-	NA		-	NA		-
1,2,4-Trichlorobenzene	NE	NE	ND		4.8	ND		4.3	ND		4.3
1,2,4-Trimethylbenzene	3,600	52,000	ND		4.8	ND		4.3	ND		4.3
1,2-Dibromo-3-chloropropane	NE	NE	ND		4.8	ND		4.3	ND		4.3
1,2-Dibromoethane	NE	NE	ND		4.8	ND		4.3	ND		4.3
1,2-Dichlorobenzene	1,100	100,000	NA		-	NA		-	NA		-
1,2-Dichloroethane	20	3,100	ND		4.8	ND		4.3	ND		4.3
1,2-Dichloropropane	NE	NE	ND		4.8	ND		4.3	ND		4.3
1,3,5-Trimethylbenzene	8,400	52,000	ND		4.8	ND		4.3	ND		4.3
1,3-Dichlorobenzene	2,400	49,000	NA		-	NA		-	NA		-
1,3-Dichloropropane	NE	NE	NA		-	NA		-	NA		-
1,4-Dichlorobenzene	1,800	13,000	NA		-	NA		-	NA		-
1,4-Dioxane	100	13,000	NA		-	NA		-	NA		-
2,2-Dichloropropane	NE	NE	NA		-	NA		-	NA		-
2-Butanone	120	100,000	ND		4.8	ND		4.3	ND		4.3
2-Chlorotoluene	NE	NE	NA		-	NA		-	NA		-
2-Hexanone	NE	NE	ND		4.8	ND		4.3	ND		4.3
4-Chlorotoluene	NE	NE	NA		-	NA		-	NA		-
4-Methyl-2-pentanone	NE	NE	ND		4.8	ND		4.3	ND		4.3
Acetone	50	100,000	17		9.5	8.5	J	8.6	15		8.6
Benzene	60	4,800	ND		4.8	ND		4.3	ND		4.3
Bromobenzene	NE	NE	NA		-	NA		-	NA		-
Bromochloromethane	NE	NE	NA		-	NA		-	NA		-
Bromodichloromethane	NE	NE	ND		4.8	ND		4.3	ND		4.3
Bromoform	NE	NE	ND		4.8	ND		4.3	ND		4.3
Bromomethane	NE	NE	ND		4.8	ND		4.3	ND		4.3
Carbon disulfide	NE	100	ND		4.8	ND		4.3	ND		4.3
Carbon tetrachloride	760	2,400	ND		4.8	ND		4.3	ND		4.3
Chlorobenzene	1,100	100,000	ND		4.8	ND		4.3	ND		4.3
Chloroethane	NE	NE	ND		4.8	ND		4.3	ND		4.3
Chloroform	370	49,000	ND		4.8	ND		4.3	ND		4.3
Chloromethane	NE	NE	ND		4.8	ND		4.3	ND		4.3
cis-1,2-Dichloroethylene	250	100,000	ND		4.8	ND		4.3	14		4.3
cis-1,3-Dichloropropylene	NE	NE	ND		4.8	ND		4.3	ND		4.3
Dibromochloromethane	NE	NE	ND		4.8	ND		4.3	ND		4.3
Dibromomethane	NE	NE	NA		-	NA		-	NA		-
Dichlorodifluoromethane	NE	NE	ND		4.8	ND		4.3	ND		4.3
Ethyl Benzene	1,000	41,000	ND		4.8	ND		4.3	ND		4.3
Hexachlorobutadiene	NE	NE	NA		-	NA		-	NA		-
Isopropylbenzene	2,300	100,000	NA		-	NA		-	NA		-
Methyl tert-butyl ether (MTBE)	930	100,000	ND		4.8	ND		4.3	ND		4.3
Methylene chloride	50	500,000	4.9	J	9.5	ND		8.6	5.7	J	8.6
Naphthalene	12,000	NE	ND		9.5	ND		8.6	ND		8.6
n-Butylbenzene	12,000	100,000	ND		4.8	ND		4.3	ND		4.3
n-Propylbenzene	3,900	100,000	ND		4.8	ND		4.3	ND		4.3
o-Xylene	NE	NE	ND		4.8	ND		4.3	ND		4.3
p- & m- Xylenes	NE	NE	ND		9.5	ND		8.6	ND		8.6
p-Isopropyltoluene	10,000	NE	NA		-	NA		-	NA		-
sec-Butylbenzene	11,000	100,000	ND		4.8	ND		4.3	ND		4.3
Styrene	NE	NE	ND		4.8	ND		4.3	ND		4.3
tert-Butylbenzene	5,900	100,000	ND		4.8	ND		4.3	ND		4.3
Tetrachloroethylene	1,300	19,000	ND		4.8	ND		4.3	ND		4.3
Toluene	700	100,000	ND		4.8	ND		4.3	ND		4.3
trans-1,2-Dichloroethylene	190	100,000	ND		4.8	ND		4.3	ND		4.3
trans-1,3-Dichloropropylene	NE	NE	ND		4.8	ND		4.3	ND		4.3
Trichloroethylene	470	21,000	ND		4.8	ND		4.3	32		4.3
Trichlorofluoromethane	NE	NE	ND		4.8	ND		4.3	ND		4.3
Vinyl acetate	NE	NE	NA		-	NA		-	NA		-
Vinyl Chloride	20	900	ND		4.8	ND		4.3	ND		4.3
Xylenes, Total	260	100,000	ND		14	ND		13	ND		13
Total TICs	NE	NE	NA		-	NA		-	NA		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		3SB-8 (0-5) (2014-09-24)			3SB-Dup (2014-09-24) (3SB-8 0-5)			3SB-8 (15-20) (2014-09-24)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,1,1,2-Tetrachloroethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,1,1-Trichloroethane	680	100,000	ND		4.4	ND		4.6	ND		4.4
1,1,2,2-Tetrachloroethane	NE	NE	ND		4.4	ND		4.6	ND		4.4
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		4.4	ND		4.6	ND		4.4
1,1,2-Trichloroethane	NE	NE	ND		4.4	ND		4.6	ND		4.4
1,1-Dichloroethane	270	26,000	ND		4.4	ND		4.6	ND		4.4
1,1-Dichloroethylene	330	100,000	ND		4.4	ND		4.6	2.2	J	4.4
1,1-Dichloropropylene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,4-Trichlorobenzene	NE	NE	ND		4.4	ND		4.6	ND		4.4
1,2,4-Trimethylbenzene	3,600	52,000	ND		4.4	ND		4.6	ND		4.4
1,2-Dibromo-3-chloropropane	NE	NE	ND		4.4	ND		4.6	ND		4.4
1,2-Dibromoethane	NE	NE	ND		4.4	ND		4.6	ND		4.4
1,2-Dichlorobenzene	1,100	100,000	*NA*		-	*NA*		-	*NA*		-
1,2-Dichloroethane	20	3,100	ND		4.4	ND		4.6	ND		4.4
1,2-Dichloropropane	NE	NE	ND		4.4	ND		4.6	ND		4.4
1,3,5-Trimethylbenzene	8,400	52,000	ND		4.4	ND		4.6	ND		4.4
1,3-Dichlorobenzene	2,400	49,000	*NA*		-	*NA*		-	*NA*		-
1,3-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,4-Dichlorobenzene	1,800	13,000	*NA*		-	*NA*		-	*NA*		-
1,4-Dioxane	100	13,000	*NA*		-	*NA*		-	*NA*		-
2,2-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Butanone	120	100,000	ND		4.4	ND		4.6	ND		4.4
2-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Hexanone	NE	NE	ND		4.4	ND		4.6	ND		4.4
4-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Methyl-2-pentanone	NE	NE	ND		4.4	ND		4.6	ND		4.4
Acetone	50	100,000	13		8.8	19		9.2	8.1	J	8.8
Benzene	60	4,800	ND		4.4	ND		4.6	ND		4.4
Bromobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromochloromethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromodichloromethane	NE	NE	ND		4.4	ND		4.6	ND		4.4
Bromoform	NE	NE	ND		4.4	ND		4.6	ND		4.4
Bromomethane	NE	NE	ND		4.4	ND		4.6	ND		4.4
Carbon disulfide	NE	100	ND		4.4	ND		4.6	ND		4.4
Carbon tetrachloride	760	2,400	ND		4.4	ND		4.6	ND		4.4
Chlorobenzene	1,100	100,000	ND		4.4	ND		4.6	ND		4.4
Chloroethane	NE	NE	ND		4.4	ND		4.6	ND		4.4
Chloroform	370	49,000	ND		4.4	ND		4.6	ND		4.4
Chloromethane	NE	NE	ND		4.4	ND		4.6	ND		4.4
cis-1,2-Dichloroethylene	250	100,000	ND		4.4	ND		4.6	**270**	E	4.4
cis-1,3-Dichloropropylene	NE	NE	ND		4.4	ND		4.6	ND		4.4
Dibromochloromethane	NE	NE	ND		4.4	ND		4.6	ND		4.4
Dibromomethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Dichlorodifluoromethane	NE	NE	ND		4.4	ND		4.6	ND		4.4
Ethyl Benzene	1,000	41,000	ND		4.4	ND		4.6	ND		4.4
Hexachlorobutadiene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Isopropylbenzene	2,300	100,000	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	930	100,000	ND		4.4	ND		4.6	ND		4.4
Methylene chloride	50	500,000	ND		8.8	ND		9.2	ND		8.8
Naphthalene	12,000	NE	ND		8.8	ND		9.2	ND		8.8
n-Butylbenzene	12,000	100,000	ND		4.4	ND		4.6	ND		4.4
n-Propylbenzene	3,900	100,000	ND		4.4	ND		4.6	ND		4.4
o-Xylene	NE	NE	ND		4.4	ND		4.6	ND		4.4
p- & m- Xylenes	NE	NE	ND		8.8	ND		9.2	ND		8.8
p-Isopropyltoluene	10,000	NE	*NA*		-	*NA*		-	*NA*		-
sec-Butylbenzene	11,000	100,000	ND		4.4	ND		4.6	ND		4.4
Styrene	NE	NE	ND		4.4	ND		4.6	ND		4.4
tert-Butylbenzene	5,900	100,000	ND		4.4	ND		4.6	ND		4.4
Tetrachloroethylene	1,300	19,000	ND		4.4	ND		4.6	2.6	J	4.4
Toluene	700	100,000	ND		4.4	ND		4.6	ND		4.4
trans-1,2-Dichloroethylene	190	100,000	ND		4.4	ND		4.6	ND		4.4
trans-1,3-Dichloropropylene	NE	NE	ND		4.4	ND		4.6	ND		4.4
Trichloroethylene	470	21,000	14		4.4	13		4.6	**710**		450
Trichlorofluoromethane	NE	NE	ND		4.4	ND		4.6	ND		4.4
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		4.4	ND		4.6	ND		4.4
Xylenes, Total	260	100,000	ND		13	ND		14	ND		13
Total TICs	NE	NE	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 3: Soil - VOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		3SB-9 (0-5) (2014-09-24)			3SB-9 (15-20) (2014-09-24)			3SB-9 (20-25) (2014-09-24)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,1,1-Trichloroethane	680	100,000	ND		5	ND		4.6	ND		4.2
1,1,2,2-Tetrachloroethane	NE	NE	ND		5	ND		4.6	ND		4.2
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		5	ND		4.6	ND		4.2
1,1,2-Trichloroethane	NE	NE	ND		5	ND		4.6	ND		4.2
1,1-Dichloroethane	270	26,000	ND		5	ND		4.6	ND		4.2
1,1-Dichloroethylene	330	100,000	ND		5	4.5	J	4.6	ND		4.2
1,1-Dichloropropylene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,2,4-Trichlorobenzene	NE	NE	ND		5	ND		4.6	ND		4.2
1,2,4-Trimethylbenzene	3,600	52,000	ND		5	ND		4.6	ND		4.2
1,2-Dibromo-3-chloropropane	NE	NE	ND		5	ND		4.6	ND		4.2
1,2-Dibromoethane	NE	NE	ND		5	ND		4.6	ND		4.2
1,2-Dichlorobenzene	1,100	100,000	*NA*		-	*NA*		-	*NA*		-
1,2-Dichloroethane	20	3,100	ND		5	ND		4.6	ND		4.2
1,2-Dichloropropane	NE	NE	ND		5	ND		4.6	ND		4.2
1,3,5-Trimethylbenzene	8,400	52,000	ND		5	ND		4.6	ND		4.2
1,3-Dichlorobenzene	2,400	49,000	*NA*		-	*NA*		-	*NA*		-
1,3-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
1,4-Dichlorobenzene	1,800	13,000	*NA*		-	*NA*		-	*NA*		-
1,4-Dioxane	100	13,000	*NA*		-	*NA*		-	*NA*		-
2,2-Dichloropropane	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Butanone	120	100,000	ND		5	ND		4.6	ND		4.2
2-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
2-Hexanone	NE	NE	ND		5	ND		4.6	ND		4.2
4-Chlorotoluene	NE	NE	*NA*		-	*NA*		-	*NA*		-
4-Methyl-2-pentanone	NE	NE	ND		5	ND		4.6	ND		4.2
Acetone	50	100,000	18		10	25		9.1	25	CCV-E	8.4
Benzene	60	4,800	ND		5	ND		4.6	ND		4.2
Bromobenzene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromochloromethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Bromodichloromethane	NE	NE	ND		5	ND		4.6	ND		4.2
Bromoform	NE	NE	ND		5	ND		4.6	ND		4.2
Bromomethane	NE	NE	ND		5	ND		4.6	ND		4.2
Carbon disulfide	NE	100	ND		5	2.4	J	4.6	ND		4.2
Carbon tetrachloride	760	2,400	ND		5	ND		4.6	ND		4.2
Chlorobenzene	1,100	100,000	ND		5	ND		4.6	ND		4.2
Chloroethane	NE	NE	ND		5	ND		4.6	ND		4.2
Chloroform	370	49,000	ND		5	ND		4.6	ND		4.2
Chloromethane	NE	NE	ND		5	ND		4.6	ND		4.2
cis-1,2-Dichloroethylene	250	100,000	ND		5	**510**	E	4.6	ND		4.2
cis-1,3-Dichloropropylene	NE	NE	ND		5	ND		4.6	ND		4.2
Dibromochloromethane	NE	NE	ND		5	ND		4.6	ND		4.2
Dibromomethane	NE	NE	*NA*		-	*NA*		-	*NA*		-
Dichlorodifluoromethane	NE	NE	ND		5	ND		4.6	ND		4.2
Ethyl Benzene	1,000	41,000	ND		5	ND		4.6	ND		4.2
Hexachlorobutadiene	NE	NE	*NA*		-	*NA*		-	*NA*		-
Isopropylbenzene	2,300	100,000	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	930	100,000	ND		5	ND		4.6	ND		4.2
Methylene chloride	50	500,000	5.8	J	10	7.5	J	9.1	5	J	8.4
Naphthalene	12,000	NE	ND		10	ND		9.1	ND		8.4
n-Butylbenzene	12,000	100,000	ND		5	ND		4.6	ND		4.2
n-Propylbenzene	3,900	100,000	ND		5	ND		4.6	ND		4.2
o-Xylene	NE	NE	ND		5	ND		4.6	ND		4.2
p- & m- Xylenes	NE	NE	ND		10	ND		9.1	ND		8.4
p-Isopropyltoluene	10,000	NE	*NA*		-	*NA*		-	*NA*		-
sec-Butylbenzene	11,000	100,000	ND		5	ND		4.6	ND		4.2
Styrene	NE	NE	ND		5	ND		4.6	ND		4.2
tert-Butylbenzene	5,900	100,000	ND		5	ND		4.6	ND		4.2
Tetrachloroethylene	1,300	19,000	ND		5	31		4.6	ND		4.2
Toluene	700	100,000	ND		5	ND		4.6	ND		4.2
trans-1,2-Dichloroethylene	190	100,000	ND		5	2.7	J	4.6	ND		4.2
trans-1,3-Dichloropropylene	NE	NE	ND		5	ND		4.6	ND		4.2
Trichloroethylene	470	21,000	ND		5	**2,600**		470	6.2		4.2
Trichlorofluoromethane	NE	NE	ND		5	ND		4.6	ND		4.2
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		5	10		4.6	ND		4.2
Xylenes, Total	260	100,000	ND		15	ND		14	ND		13
Total TICs	NE	NE	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 4: Soil - VOCs (Spill Site)

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		SB-MW-17 (12-16) (2012-04-19) (Spill Site)			SB-MW-18 (8-12) (2012-04-19) (Spill Site)			MW-19 (10-12) (2012-02-02) (Spill Site)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		13	ND		560	ND		600
1,1,1-Trichloroethane	680	100,000	ND		13	ND		560	ND		600
1,1,2,2-Tetrachloroethane	NE	NE	ND		13	ND		560	ND		600
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		13	ND		560	ND		600
1,1,2-Trichloroethane	NE	NE	ND		13	ND		560	ND		600
1,1-Dichloroethane	270	26,000	ND		13	ND		560	ND		600
1,1-Dichloroethylene	330	100,000	ND		13	ND		560	ND		600
1,1-Dichloropropylene	NE	NE	ND		13	ND		560	ND		600
1,2,3-Trichlorobenzene	NE	NE	ND		25	ND		1,100	ND		1,200
1,2,3-Trichloropropane	NE	NE	ND		13	ND		560	ND		600
1,2,4-Trichlorobenzene	NE	NE	ND		25	ND		1,100	ND		1,200
1,2,4-Trimethylbenzene	3,600	52,000	ND		13	ND		560	ND		600
1,2-Dibromo-3-chloropropane	NE	NE	ND		25	ND		1,100	ND		1,200
1,2-Dibromoethane	NE	NE	ND		13	ND		560	ND		600
1,2-Dichlorobenzene	1,100	100,000	ND		13	ND		560	ND		600
1,2-Dichloroethane	20	3,100	ND		13	ND		560	ND		600
1,2-Dichloropropane	NE	NE	ND		13	ND		560	ND		600
1,3,5-Trimethylbenzene	8,400	52,000	ND		13	ND		560	ND		600
1,3-Dichlorobenzene	2,400	49,000	ND		13	ND		560	ND		600
1,3-Dichloropropane	NE	NE	ND		13	ND		560	ND		600
1,4-Dichlorobenzene	1,800	13,000	ND		13	ND		560	ND		600
1,4-Dioxane	100	13,000	ND		130	ND		5,600	ND		6,000
2,2-Dichloropropane	NE	NE	ND		13	ND		560	ND		600
2-Butanone	120	100,000	ND		25	ND		1,100	ND		1,200
2-Chlorotoluene	NE	NE	ND		13	ND		560	ND		600
4-Chlorotoluene	NE	NE	ND		13	ND		560	ND		600
Acetone	50	100,000	49	B	25	16	B-dil,B	11	**1,100**	J	1,200
Benzene	60	4,800	ND		13	ND		560	ND		600
Bromobenzene	NE	NE	ND		13	ND		560	ND		600
Bromochloromethane	NE	NE	ND		13	ND		560	ND		600
Bromodichloromethane	NE	NE	ND		13	ND		560	ND		600
Bromoform	NE	NE	ND		13	ND		560	ND		600
Bromomethane	NE	NE	ND		13	290	J	560	ND		600
Carbon tetrachloride	760	2,400	ND		13	ND		560	ND		600
Chlorobenzene	1,100	100,000	ND		13	ND		560	ND		600
Chloroethane	NE	NE	ND		13	ND		560	ND		600
Chloroform	370	49,000	ND		13	ND		560	ND		600
Chloromethane	NE	NE	ND		13	ND		560	ND		600
cis-1,2-Dichloroethylene	250	100,000	ND		13	ND		560	ND		600
cis-1,3-Dichloropropylene	NE	NE	ND		13	ND		560	ND		600
Dibromochloromethane	NE	NE	ND		13	ND		560	ND		600
Dibromomethane	NE	NE	ND		13	ND		560	ND		600
Dichlorodifluoromethane	NE	NE	ND		13	ND		560	ND		600
Ethyl Benzene	1,000	41,000	ND		13	ND		560	260	J	600
Hexachlorobutadiene	NE	NE	ND		13	ND		560	ND		600
Isopropylbenzene	2,300	100,000	ND		13	ND		560	250	J	600
Methyl tert-butyl ether (MTBE)	930	100,000	ND		13	ND		560	ND		600
Methylene chloride	50	500,000	23	J,B	25	8.1	B-dil,J,B	11	2.3	B-dil,J, B	12
Naphthalene	12,000	NE	ND		25	ND		1,100	2,900		1,200
n-Butylbenzene	12,000	100,000	ND		13	ND		560	450	J	600
n-Propylbenzene	3,900	100,000	ND		13	ND		560	440	J	600
o-Xylene	NE	NE	ND		13	ND		560	130	J	600
p- & m- Xylenes	NE	NE	ND		25	ND		1,100	ND		1,200
p-Isopropyltoluene	10,000	NE	ND		13	ND		560	ND		600
sec-Butylbenzene	11,000	100,000	ND		13	ND		560	330	J	600
Styrene	NE	NE	ND		13	ND		560	ND		600
tert-Butylbenzene	5,900	100,000	ND		13	ND		560	ND		600
Tetrachloroethylene	1,300	19,000	ND		13	ND		560	ND		600
Toluene	700	100,000	ND		13	ND		560	ND		600
trans-1,2-Dichloroethylene	190	100,000	ND		13	ND		560	ND		600
trans-1,3-Dichloropropylene	NE	NE	ND		13	ND		560	ND		600
Trichloroethylene	470	21,000	2.4	J	13	ND		560	ND		600
Trichlorofluoromethane	NE	NE	ND		13	ND		560	ND		600
Vinyl acetate	NE	NE	*NA*		-	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		13	ND		560	ND		600
Xylenes, Total	260	100,000	ND		38	ND		1,700	ND		1,800
Total TICs	NE	NE	*NA*		-	*NA*		-	28,891		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 4: Soil - VOCs (Spill Site)

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs (USEPA Method 8260)	Soil Cleanup Objectives (SCOs)		SB-77A (8-12) (2012-04-19) (Spill Site)			SB-78A (8-12) (2012-04-19) (Spill Site)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	NE	NE	ND		13	ND		12
1,1,1-Trichloroethane	680	100,000	ND		13	ND		12
1,1,2,2-Tetrachloroethane	NE	NE	ND		13	ND		12
1,1,2-Trichloro-1,2,2-trifluoroethane	NE	NE	ND		13	ND		12
1,1,2-Trichloroethane	NE	NE	ND		13	ND		12
1,1-Dichloroethane	270	26,000	ND		13	ND		12
1,1-Dichloroethylene	330	100,000	ND		13	ND		12
1,1-Dichloropropylene	NE	NE	ND		13	ND		12
1,2,3-Trichlorobenzene	NE	NE	ND		26	ND		24
1,2,3-Trichloropropane	NE	NE	ND		13	ND		12
1,2,4-Trichlorobenzene	NE	NE	ND		26	ND		24
1,2,4-Trimethylbenzene	3,600	52,000	ND		13	ND		12
1,2-Dibromo-3-chloropropane	NE	NE	ND		26	ND		24
1,2-Dibromoethane	NE	NE	ND		13	ND		12
1,2-Dichlorobenzene	1,100	100,000	ND		13	ND		12
1,2-Dichloroethane	20	3,100	ND		13	ND		12
1,2-Dichloropropane	NE	NE	ND		13	ND		12
1,3,5-Trimethylbenzene	8,400	52,000	ND		13	ND		12
1,3-Dichlorobenzene	2,400	49,000	ND		13	ND		12
1,3-Dichloropropane	NE	NE	ND		13	ND		12
1,4-Dichlorobenzene	1,800	13,000	ND		13	ND		12
1,4-Dioxane	100	13,000	ND		130	ND		120
2,2-Dichloropropane	NE	NE	ND		13	ND		12
2-Butanone	120	100,000	ND		26	ND		24
2-Chlorotoluene	NE	NE	ND		13	ND		12
4-Chlorotoluene	NE	NE	ND		13	ND		12
Acetone	50	100,000	25	J,B	26	22	J,B	24
Benzene	60	4,800	ND		13	ND		12
Bromobenzene	NE	NE	ND		13	ND		12
Bromochloromethane	NE	NE	ND		13	ND		12
Bromodichloromethane	NE	NE	ND		13	ND		12
Bromoform	NE	NE	ND		13	ND		12
Bromomethane	NE	NE	ND		13	ND		12
Carbon tetrachloride	760	2,400	ND		13	ND		12
Chlorobenzene	1,100	100,000	ND		13	ND		12
Chloroethane	NE	NE	ND		13	ND		12
Chloroform	370	49,000	ND		13	ND		12
Chloromethane	NE	NE	ND		13	ND		12
cis-1,2-Dichloroethylene	250	100,000	ND		13	ND		12
cis-1,3-Dichloropropylene	NE	NE	ND		13	ND		12
Dibromochloromethane	NE	NE	ND		13	ND		12
Dibromomethane	NE	NE	ND		13	ND		12
Dichlorodifluoromethane	NE	NE	ND		13	ND		12
Ethyl Benzene	1,000	41,000	ND		13	ND		12
Hexachlorobutadiene	NE	NE	ND		13	ND		12
Isopropylbenzene	2,300	100,000	ND		13	ND		12
Methyl tert-butyl ether (MTBE)	930	100,000	ND		13	ND		12
Methylene chloride	50	500,000	22	J,B	26	20	J,B	24
Naphthalene	12,000	NE	ND		26	ND		24
n-Butylbenzene	12,000	100,000	ND		13	ND		12
n-Propylbenzene	3,900	100,000	ND		13	ND		12
o-Xylene	NE	NE	ND		13	ND		12
p- & m- Xylenes	NE	NE	ND		26	ND		24
p-Isopropyltoluene	10,000	NE	ND		13	ND		12
sec-Butylbenzene	11,000	100,000	ND		13	ND		12
Styrene	NE	NE	ND		13	ND		12
tert-Butylbenzene	5,900	100,000	ND		13	ND		12
Tetrachloroethylene	1,300	19,000	ND		13	ND		12
Toluene	700	100,000	ND		13	ND		12
trans-1,2-Dichloroethylene	190	100,000	ND		13	ND		12
trans-1,3-Dichloropropylene	NE	NE	ND		13	ND		12
Trichloroethylene	470	21,000	ND		13	ND		12
Trichlorofluoromethane	NE	NE	ND		13	ND		12
Vinyl acetate	NE	NE	*NA*		-	*NA*		-
Vinyl Chloride	20	900	ND		13	ND		12
Xylenes, Total	260	100,000	ND		39	ND		35
Total TICs	NE	NE	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		MW-17 (14) (2012-02-15) (Spill Site)			MW-18 (15) (2012-02-15) (Spill Site)			MW-19 (10-12) (2012-02-02) (Spill Site)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,2,4-Trichlorobenzene	NE	NE	ND		215	ND		198	ND		4,030
1,2-Dichlorobenzene	NE	NE	ND		215	ND		198	ND		4,030
1,3-Dichlorobenzene	NE	NE	ND		215	ND		198	ND		4,030
1,4-Dichlorobenzene	NE	NE	ND		215	ND		198	ND		4,030
2,4,5-Trichlorophenol	NE	100,000	*NA*		-	*NA*		-	ND		4,030
2,4,6-Trichlorophenol	NE	NE	*NA*		-	*NA*		-	ND		4,030
2,4-Dichlorophenol	NE	100,000	*NA*		-	*NA*		-	ND		4,030
2,4-Dimethylphenol	NE	NE	*NA*		-	*NA*		-	ND		4,030
2,4-Dinitrophenol	NE	100,000	*NA*		-	*NA*		-	ND		8,060
2,4-Dinitrotoluene	NE	NE	ND		215	ND		198	ND		4,030
2,6-Dinitrotoluene	NE	1,030	ND		215	ND		198	ND		4,030
2-Chloronaphthalene	NE	NE	ND		215	ND		198	ND		4,030
2-Chlorophenol	NE	100,000	*NA*		-	*NA*		-	ND		4,030
2-Methylnaphthalene	NE	410	ND		215	ND		198	**13,200**		4,030
2-Methylphenol	330	100,000	*NA*		-	*NA*		-	ND		4,030
2-Nitroaniline	NE	NE	*NA*		-	*NA*		-	ND		4,030
2-Nitrophenol	NE	NE	*NA*		-	*NA*		-	ND		4,030
3- & 4-Methylphenols	330	100,000	*NA*		-	*NA*		-	ND		4,030
3,3'-Dichlorobenzidine	NE	NE	ND		215	ND		198	ND		4,030
3-Nitroaniline	NE	NE	ND		215	ND		198	ND		4,030
4,6-Dinitro-2-methylphenol	NE	NE	*NA*		-	*NA*		-	ND		8,060
4-Bromophenyl phenyl ether	NE	NE	ND		215	ND		198	ND		4,030
4-Chloro-3-methylphenol	NE	NE	ND		215	ND		198	ND		4,030
4-Chloroaniline	NE	NE	ND		215	ND		198	ND		4,030
4-Chlorophenyl phenyl ether	NE	NE	ND		215	ND		198	ND		4,030
4-Nitroaniline	NE	NE	ND		215	ND		198	ND		4,030
4-Nitrophenol	NE	NE	*NA*		-	*NA*		-	ND		4,030
Acenaphthene	20,000	100,000	ND		215	ND		198	ND		4,030
Acenaphthylene	100,000	100,000	ND		215	ND		198	ND		4,030
Aniline	NE	100,000	ND		215	ND		198	ND		4,030
Anthracene	100,000	100,000	ND		215	ND		198	1,400	J	4,030
Benzo(a)anthracene	1,000	1,000	ND		215	ND		198	ND		4,030
Benzo(a)pyrene	1,000	1,000	ND		215	53	J	198	ND		4,030
Benzo(b)fluoranthene	1,000	1,000	ND		215	ND		198	ND		4,030
Benzo(g,h,i)perylene	100,000	100,000	ND		215	ND		198	ND		4,030
Benzo(k)fluoranthene	800	3,900	ND		215	ND		198	ND		4,030
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	*NA*		-	*NA*		-	ND		4,030
Benzyl butyl phthalate	NE	NE	ND		215	ND		198	10,100		4,030
Bis(2-chloroethoxy)methane	NE	NE	ND		215	ND		198	ND		4,030
Bis(2-chloroethyl)ether	NE	NE	ND		215	ND		198	ND		4,030
Bis(2-chloroisopropyl)ether	NE	NE	ND		215	ND		198	ND		4,030
Bis(2-ethylhexyl)phthalate	NE	50,000	1,400		215	440		198	4,330		4,030
Carbazole	NE	NE	ND		215	ND		198	*NA*		-
Chrysene	1,000	3,900	ND		215	ND		198	ND		4,030
Dibenzo(a,h)anthracene	330	330	ND		215	ND		198	ND		4,030
Dibenzofuran	NE	NE	ND		215	ND		198	ND		4,030
Diethyl phthalate	NE	100,000	ND		215	ND		198	ND		4,030
Dimethyl phthalate	NE	100,000	ND		215	ND		198	ND		4,030
Di-n-butyl phthalate	NE	100,000	ND		215	ND		198	ND		4,030
Di-n-octyl phthalate	NE	100,000	350		215	ND		198	ND		4,030
Fluoranthene	100,000	100,000	ND		215	ND		198	ND		4,030
Fluorene	30,000	100,000	ND		215	ND		198	1,850	J	4,030
Hexachlorobenzene	NE	410	ND		215	ND		198	ND		4,030
Hexachlorobutadiene	NE	NE	ND		215	ND		198	ND		4,030
Hexachlorocyclopentadiene	NE	NE	ND		215	ND		198	ND		4,030
Hexachloroethane	NE	NE	ND		215	ND		198	ND		4,030
Indeno(1,2,3-cd)pyrene	500	500	ND		215	ND		198	ND		4,030
Isophorone	NE	100,000	ND		215	ND		198	ND		4,030
Naphthalene	12,000	100,000	ND		215	ND		198	2,000	J	4,030
Nitrobenzene	NE	15,000	ND		215	ND		198	ND		4,030
N-Nitrosodimethylamine	NE	NE	ND	R	215	ND		198	ND		4,030
N-nitroso-di-n-propylamine	NE	NE	ND		215	ND		198	ND		4,030
N-Nitrosodiphenylamine	NE	NE	ND		215	ND		198	ND		4,030
Pentachlorophenol	800	6,700	*NA*		-	*NA*		-	ND		4,030
Phenanthrene	100,000	100,000	ND		215	ND		198	6,650		4,030
Phenol	330	100,000	*NA*		-	*NA*		-	ND		4,030
Pyrene	100,000	100,000	ND		215	76.4	J	198	3,360	J	4,030
Pyridine	NE	NE	ND		215	ND	R	198	ND	R	4,030
Total TICs	NE	NE	*NA*		-	*NA*		-	5,360		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		MW-22 (10-11) (2012-02-16)			MW-22 (12-14) (2012-02-16)			MW-23 (2012-07-25)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,2,4-Trichlorobenzene	NE	NE	ND		88,700	ND		19,900	ND		2,040
1,2-Dichlorobenzene	NE	NE	ND		88,700	ND		19,900	ND		2,040
1,3-Dichlorobenzene	NE	NE	ND		88,700	ND		19,900	ND		2,040
1,4-Dichlorobenzene	NE	NE	ND		88,700	ND		19,900	ND		2,040
2,4,5-Trichlorophenol	NE	100,000	*NA*		-	ND		19,900	ND		2,040
2,4,6-Trichlorophenol	NE	NE	*NA*		-	ND		19,900	ND		2,040
2,4-Dichlorophenol	NE	100,000	*NA*		-	ND		19,900	ND		2,040
2,4-Dimethylphenol	NE	NE	*NA*		-	ND		19,900	ND		2,040
2,4-Dinitrophenol	NE	100,000	*NA*		-	ND		39,800	ND		4,080
2,4-Dinitrotoluene	NE	NE	ND		88,700	ND		19,900	ND		2,040
2,6-Dinitrotoluene	NE	1,030	ND		88,700	ND		19,900	ND		2,040
2-Chloronaphthalene	NE	NE	ND		88,700	ND		19,900	ND		2,040
2-Chlorophenol	NE	100,000	*NA*		-	ND		19,900	ND		2,040
2-Methylnaphthalene	NE	410	ND		88,700	ND		19,900	ND		2,040
2-Methylphenol	330	100,000	*NA*		-	ND		19,900	ND		2,040
2-Nitroaniline	NE	NE	*NA*		-	ND		199	ND		2,040
2-Nitrophenol	NE	NE	*NA*		-	ND		19,900	ND		2,040
3- & 4-Methylphenols	330	100,000	*NA*		-	ND		19,900	ND		2,040
3,3'-Dichlorobenzidine	NE	NE	ND		88,700	ND		19,900	ND		2,040
3-Nitroaniline	NE	NE	ND		88,700	ND		19,900	ND		2,040
4,6-Dinitro-2-methylphenol	NE	NE	*NA*		-	ND		39,800	ND		4,080
4-Bromophenyl phenyl ether	NE	NE	ND		88,700	ND		19,900	ND		2,040
4-Chloro-3-methylphenol	NE	NE	ND		88,700	ND		19,900	ND		2,040
4-Chloroaniline	NE	NE	ND		88,700	ND		19,900	ND		2,040
4-Chlorophenyl phenyl ether	NE	NE	ND		88,700	ND		19,900	ND		2,040
4-Nitroaniline	NE	NE	ND		88,700	ND		19,900	ND		2,040
4-Nitrophenol	NE	NE	*NA*		-	ND		19,900	ND		2,040
Acenaphthene	20,000	100,000	ND		88,700	ND		19,900	ND		2,040
Acenaphthylene	100,000	100,000	ND		88,700	ND		19,900	ND		2,040
Aniline	NE	100,000	ND		88,700	ND		19,900	ND		2,040
Anthracene	100,000	100,000	ND		88,700	ND		19,900	ND		2,040
Benzo(a)anthracene	1,000	1,000	ND		88,700	ND		19,900	ND		2,040
Benzo(a)pyrene	1,000	1,000	ND		88,700	ND		19,900	ND		2,040
Benzo(b)fluoranthene	1,000	1,000	ND		88,700	ND		19,900	ND		2,040
Benzo(g,h,i)perylene	100,000	100,000	ND		88,700	ND		19,900	ND		2,040
Benzo(k)fluoranthene	800	3,900	ND		88,700	ND		19,900	ND		2,040
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	*NA*		-	ND		19,900	ND		2,040
Benzyl butyl phthalate	NE	NE	48,300	J	88,700	ND		19,900	ND		2,040
Bis(2-chloroethoxy)methane	NE	NE	ND		88,700	ND		19,900	ND		2,040
Bis(2-chloroethyl)ether	NE	NE	ND		88,700	ND		19,900	ND		2,040
Bis(2-chloroisopropyl)ether	NE	NE	ND		88,700	ND		19,900	ND		2,040
Bis(2-ethylhexyl)phthalate	NE	50,000	**59,200,000**	E	4,440,000	**5,340,000**		996,000	8,450		2,040
Carbazole	NE	NE	ND		887	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		88,700	ND		19,900	ND		2,040
Dibenzo(a,h)anthracene	330	330	ND		88,700	ND		19,900	ND		2,040
Dibenzofuran	NE	NE	ND		88,700	ND		19,900	ND		2,040
Diethyl phthalate	NE	100,000	ND		88,700	ND		19,900	ND		2,040
Dimethyl phthalate	NE	100,000	ND		88,700	ND		19,900	ND		2,040
Di-n-butyl phthalate	NE	100,000	ND		88,700	ND		19,900	ND		2,040
Di-n-octyl phthalate	NE	100,000	**576,000**		88,700	ND		19,900	ND		2,040
Fluoranthene	100,000	100,000	ND		88,700	ND		19,900	ND		2,040
Fluorene	30,000	100,000	ND		88,700	ND		19,900	ND		2,040
Hexachlorobenzene	NE	410	ND		88,700	ND		19,900	ND		2,040
Hexachlorobutadiene	NE	NE	ND		88,700	ND		19,900	ND		2,040
Hexachlorocyclopentadiene	NE	NE	ND		88,700	ND		19,900	ND		2,040
Hexachloroethane	NE	NE	ND		88,700	ND		19,900	ND		2,040
Indeno(1,2,3-cd)pyrene	500	500	ND		88,700	ND		19,900	ND		2,040
Isophorone	NE	100,000	ND		88,700	ND		19,900	ND		2,040
Naphthalene	12,000	100,000	ND		88,700	ND		19,900	ND		2,040
Nitrobenzene	NE	15,000	ND		88,700	ND		19,900	ND		2,040
N-Nitrosodimethylamine	NE	NE	ND		88,700	ND		19,900	ND		2,040
N-nitroso-di-n-propylamine	NE	NE	ND		88,700	ND		19,900	ND		2,040
N-Nitrosodiphenylamine	NE	NE	ND		88,700	ND		19,900	ND		2,040
Pentachlorophenol	800	6,700	*NA*		-	ND		19,900	ND		2,040
Phenanthrene	100,000	100,000	ND		88,700	ND		19,900	ND		2,040
Phenol	330	100,000	*NA*		-	ND		19,900	ND		2,040
Pyrene	100,000	100,000	ND		88,700	ND		19,900	ND		2,040
Pyridine	NE	NE	ND		88,700	ND		19,900	ND		2,040
Total TICs	NE	NE	*NA*		-	358		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		MW-24 (2012-07-25)			MW-25 (2012-07-25)			MW-26 (2012-09-24)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,2,4-Trichlorobenzene	NE	NE	ND		209	ND		18,600	ND	R	21,800
1,2-Dichlorobenzene	NE	NE	ND		209	ND		18,600	ND		21,800
1,3-Dichlorobenzene	NE	NE	ND		209	ND		18,600	ND		21,800
1,4-Dichlorobenzene	NE	NE	ND		209	ND		18,600	ND		21,800
2,4,5-Trichlorophenol	NE	100,000	ND		209	ND		18,600	ND		21,800
2,4,6-Trichlorophenol	NE	NE	ND		209	ND		18,600	ND		21,800
2,4-Dichlorophenol	NE	100,000	ND		209	ND		18,600	ND		21,800
2,4-Dimethylphenol	NE	NE	ND		209	ND		18,600	ND		21,800
2,4-Dinitrophenol	NE	100,000	ND		417	ND		37,100	ND		43,500
2,4-Dinitrotoluene	NE	NE	ND		209	ND		18,600	ND		21,800
2,6-Dinitrotoluene	NE	1,030	ND		209	ND		18,600	ND		21,800
2-Chloronaphthalene	NE	NE	ND		209	ND		18,600	ND		21,800
2-Chlorophenol	NE	100,000	ND		209	ND		18,600	ND		21,800
2-Methylnaphthalene	NE	410	ND		209	ND		18,600	ND		21,800
2-Methylphenol	330	100,000	ND		209	ND		18,600	ND		21,800
2-Nitroaniline	NE	NE	ND		209	ND		18,600	ND		21,800
2-Nitrophenol	NE	NE	ND		209	ND		18,600	ND		21,800
3- & 4-Methylphenols	330	100,000	ND		209	ND		18,600	ND		21,800
3,3'-Dichlorobenzidine	NE	NE	ND		209	ND		18,600	ND		21,800
3-Nitroaniline	NE	NE	ND		209	ND		18,600	ND		21,800
4,6-Dinitro-2-methylphenol	NE	NE	ND		417	ND		37,100	ND		43,500
4-Bromophenyl phenyl ether	NE	NE	ND		209	ND		18,600	ND		21,800
4-Chloro-3-methylphenol	NE	NE	ND		209	ND		18,600	ND		21,800
4-Chloroaniline	NE	NE	ND		209	ND		18,600	ND		21,800
4-Chlorophenyl phenyl ether	NE	NE	ND		209	ND		18,600	ND		21,800
4-Nitroaniline	NE	NE	ND		209	ND		18,600	ND		21,800
4-Nitrophenol	NE	NE	ND		209	ND		18,600	ND		21,800
Acenaphthene	20,000	100,000	ND		209	ND		18,600	ND		21,800
Acenaphthylene	100,000	100,000	ND		209	ND		18,600	ND		21,800
Aniline	NE	100,000	ND		209	ND		18,600	ND		21,800
Anthracene	100,000	100,000	ND		209	ND		18,600	ND		21,800
Benzo(a)anthracene	1,000	1,000	ND		209	ND		18,600	ND		21,800
Benzo(a)pyrene	1,000	1,000	ND		209	ND		18,600	ND		21,800
Benzo(b)fluoranthene	1,000	1,000	ND		209	ND		18,600	ND		21,800
Benzo(g,h,i)perylene	100,000	100,000	ND		209	ND		18,600	ND		21,800
Benzo(k)fluoranthene	800	3,900	ND		209	ND		18,600	ND		21,800
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		209	ND		18,600	ND		21,800
Benzyl butyl phthalate	NE	NE	ND		209	ND		18,600	ND		21,800
Bis(2-chloroethoxy)methane	NE	NE	ND		209	ND		18,600	ND		21,800
Bis(2-chloroethyl)ether	NE	NE	ND		209	ND		18,600	ND		21,800
Bis(2-chloroisopropyl)ether	NE	NE	ND		209	ND		18,600	ND		21,800
Bis(2-ethylhexyl)phthalate	NE	50,000	564		209	**14,000,000**	E	186,000	**876,000**	E	21,800
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		209	ND		18,600	ND		21,800
Dibenzo(a,h)anthracene	330	330	ND		209	ND		18,600	ND		21,800
Dibenzofuran	NE	NE	ND		209	ND		18,600	ND		21,800
Diethyl phthalate	NE	100,000	ND		209	ND		18,600	ND		21,800
Dimethyl phthalate	NE	100,000	ND		209	ND		18,600	ND		21,800
Di-n-butyl phthalate	NE	100,000	ND		209	ND		18,600	ND		21,800
Di-n-octyl phthalate	NE	100,000	ND		209	**769,000**		186,000	76,500		21,800
Fluoranthene	100,000	100,000	ND		209	ND		18,600	ND		21,800
Fluorene	30,000	100,000	ND		209	ND		18,600	ND		21,800
Hexachlorobenzene	NE	410	ND		209	ND		18,600	ND		21,800
Hexachlorobutadiene	NE	NE	ND		209	ND		18,600	ND	R	21,800
Hexachlorocyclopentadiene	NE	NE	ND		209	ND		18,600	ND		21,800
Hexachloroethane	NE	NE	ND		209	ND		18,600	ND		21,800
Indeno(1,2,3-cd)pyrene	500	500	ND		209	ND		18,600	ND		21,800
Isophorone	NE	100,000	ND		209	ND		18,600	ND		21,800
Naphthalene	12,000	100,000	ND		209	ND		18,600	ND		21,800
Nitrobenzene	NE	15,000	ND		209	ND		18,600	ND		21,800
N-Nitrosodimethylamine	NE	NE	ND		209	ND		18,600	ND		21,800
N-nitroso-di-n-propylamine	NE	NE	ND		209	ND		18,600	ND		21,800
N-Nitrosodiphenylamine	NE	NE	ND		209	ND		18,600	ND		21,800
Pentachlorophenol	800	6,700	ND		209	ND		18,600	ND		21,800
Phenanthrene	100,000	100,000	ND		209	ND		18,600	ND		21,800
Phenol	330	100,000	ND		209	ND		18,600	ND		21,800
Pyrene	100,000	100,000	ND		209	ND		18,600	ND		21,800
Pyridine	NE	NE	ND		209	ND		18,600	ND		21,800
Total TICs	NE	NE	ND		-	ND		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		MW-27 (2012-09-24)			MW-28 (2013-01-15)			MW-29 (2013-01-08)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	NE	NE	ND		213	ND		307	ND		196
1,2-Dichlorobenzene	NE	NE	ND		213	ND		307	ND		196
1,3-Dichlorobenzene	NE	NE	ND		213	ND		307	ND		196
1,4-Dichlorobenzene	NE	NE	ND		213	ND		307	ND		196
2,4,5-Trichlorophenol	NE	100,000	ND		213	ND		307	ND		196
2,4,6-Trichlorophenol	NE	NE	ND		213	ND		307	ND		196
2,4-Dichlorophenol	NE	100,000	ND		213	ND		307	ND		196
2,4-Dimethylphenol	NE	NE	ND		213	ND		307	ND		196
2,4-Dinitrophenol	NE	100,000	ND	R	426	ND		614	ND		393
2,4-Dinitrotoluene	NE	NE	ND		213	ND		307	ND		196
2,6-Dinitrotoluene	NE	1,030	ND		213	ND		307	ND		196
2-Chloronaphthalene	NE	NE	ND		213	ND		307	ND		196
2-Chlorophenol	NE	100,000	ND		213	ND		307	ND		196
2-Methylnaphthalene	NE	410	ND		213	ND		307	ND		196
2-Methylphenol	330	100,000	ND		213	ND		307	ND		196
2-Nitroaniline	NE	NE	ND		213	ND		307	ND		196
2-Nitrophenol	NE	NE	ND		213	ND		307	ND		196
3- & 4-Methylphenols	330	100,000	ND		213	ND		307	ND		196
3,3'-Dichlorobenzidine	NE	NE	ND		213	ND		307	ND		196
3-Nitroaniline	NE	NE	ND		213	ND		307	ND	R	196
4,6-Dinitro-2-methylphenol	NE	NE	ND	R	426	ND		614	ND		393
4-Bromophenyl phenyl ether	NE	NE	ND		213	ND		307	ND		196
4-Chloro-3-methylphenol	NE	NE	ND		213	ND		307	ND		196
4-Chloroaniline	NE	NE	ND		213	ND		307	ND	R	196
4-Chlorophenyl phenyl ether	NE	NE	ND		213	ND		307	ND		196
4-Nitroaniline	NE	NE	ND		213	ND		307	ND		196
4-Nitrophenol	NE	NE	ND		213	ND		307	ND		196
Acenaphthene	20,000	100,000	ND		213	ND		307	ND		196
Acenaphthylene	100,000	100,000	ND		213	ND		307	ND		196
Aniline	NE	100,000	ND		213	ND		307	ND	R	196
Anthracene	100,000	100,000	ND		213	ND		307	ND		196
Benzo(a)anthracene	1,000	1,000	ND		213	ND		307	ND		196
Benzo(a)pyrene	1,000	1,000	ND		213	ND		307	ND		196
Benzo(b)fluoranthene	1,000	1,000	ND		213	ND		307	ND		196
Benzo(g,h,i)perylene	100,000	100,000	ND		213	ND		307	ND		196
Benzo(k)fluoranthene	800	3,900	ND		213	ND		307	ND		196
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		213	ND		307	ND		196
Benzyl butyl phthalate	NE	NE	ND		213	ND		307	ND		196
Bis(2-chloroethoxy)methane	NE	NE	ND		213	ND		307	ND		196
Bis(2-chloroethyl)ether	NE	NE	ND		213	ND		307	ND		196
Bis(2-chloroisopropyl)ether	NE	NE	ND		213	ND		307	ND		196
Bis(2-ethylhexyl)phthalate	NE	50,000	ND		10,700	ND		307	ND		196
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		213	ND		307	ND		196
Dibenzo(a,h)anthracene	330	330	ND		213	ND		307	ND		196
Dibenzofuran	NE	NE	ND		213	ND		307	ND		196
Diethyl phthalate	NE	100,000	ND		213	ND		307	ND		196
Dimethyl phthalate	NE	100,000	ND		213	ND		307	ND		196
Di-n-butyl phthalate	NE	100,000	ND		213	ND		307	ND		196
Di-n-octyl phthalate	NE	100,000	ND		213	ND		307	ND		196
Fluoranthene	100,000	100,000	ND		213	ND		307	ND		196
Fluorene	30,000	100,000	ND		213	ND		307	ND		196
Hexachlorobenzene	NE	410	ND		213	ND		307	ND		196
Hexachlorobutadiene	NE	NE	ND		213	ND		307	ND		196
Hexachlorocyclopentadiene	NE	NE	ND	R	213	ND	R	307	ND		196
Hexachloroethane	NE	NE	ND		213	ND		307	ND		196
Indeno(1,2,3-cd)pyrene	500	500	ND		213	ND		307	ND		196
Isophorone	NE	100,000	ND		213	ND		307	ND		196
Naphthalene	12,000	100,000	ND		213	ND		307	ND		196
Nitrobenzene	NE	15,000	ND		213	ND		307	ND		196
N-Nitrosodimethylamine	NE	NE	ND		213	ND		307	ND		196
N-nitroso-di-n-propylamine	NE	NE	ND		213	ND		307	ND		196
N-Nitrosodiphenylamine	NE	NE	ND		213	ND		307	ND		196
Pentachlorophenol	800	6,700	ND		213	ND		307	ND		196
Phenanthrene	100,000	100,000	ND		213	ND		307	ND		196
Phenol	330	100,000	ND		213	ND		307	ND		196
Pyrene	100,000	100,000	ND		213	ND		307	ND		196
Pyridine	NE	NE	ND		213	ND		307	ND		196
Total TICs	NE	NE	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		MW-30 (10-15) (2013-07-31)			MW-31 (10-15) (2013-07-31)			MW-32 (0-5) (2013-07-31)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,2,4-Trichlorobenzene	NE	NE	ND		301	ND		274	ND		267
1,2-Dichlorobenzene	NE	NE	ND		301	ND		274	ND		267
1,3-Dichlorobenzene	NE	NE	ND		301	ND		274	ND		267
1,4-Dichlorobenzene	NE	NE	ND		301	ND		274	ND		267
2,4,5-Trichlorophenol	NE	100,000	ND		301	ND		274	ND		267
2,4,6-Trichlorophenol	NE	NE	ND		301	ND		274	ND		267
2,4-Dichlorophenol	NE	100,000	ND		301	ND		274	ND		267
2,4-Dimethylphenol	NE	NE	ND		301	ND		274	ND		267
2,4-Dinitrophenol	NE	100,000	ND	R	603	ND	R	548	ND	R	534
2,4-Dinitrotoluene	NE	NE	ND		301	ND		274	ND		267
2,6-Dinitrotoluene	NE	1,030	ND		301	ND		274	ND		267
2-Chloronaphthalene	NE	NE	ND		301	ND		274	ND		267
2-Chlorophenol	NE	100,000	ND		301	ND		274	ND		267
2-Methylnaphthalene	NE	410	ND		301	ND		274	ND		267
2-Methylphenol	330	100,000	ND		301	ND		274	ND		267
2-Nitroaniline	NE	NE	ND		301	ND		274	ND		267
2-Nitrophenol	NE	NE	ND		301	ND		274	ND		267
3- & 4-Methylphenols	330	100,000	ND		301	ND		274	ND		267
3,3'-Dichlorobenzidine	NE	NE	ND		301	ND		274	ND		267
3-Nitroaniline	NE	NE	ND		301	ND		274	ND		267
4,6-Dinitro-2-methylphenol	NE	NE	ND		603	ND		548	ND		534
4-Bromophenyl phenyl ether	NE	NE	ND		301	ND		274	ND		267
4-Chloro-3-methylphenol	NE	NE	ND		301	ND		274	ND		267
4-Chloroaniline	NE	NE	ND		301	ND		274	ND		267
4-Chlorophenyl phenyl ether	NE	NE	ND		301	ND		274	ND		267
4-Nitroaniline	NE	NE	ND		301	ND		274	ND		267
4-Nitrophenol	NE	NE	ND		301	ND		274	ND		267
Acenaphthene	20,000	100,000	ND		301	ND		274	ND		267
Acenaphthylene	100,000	100,000	ND		301	ND		274	ND		267
Aniline	NE	100,000	ND		301	ND		274	ND		267
Anthracene	100,000	100,000	ND		301	ND		274	ND		267
Benzo(a)anthracene	1,000	1,000	ND		301	ND		274	ND		267
Benzo(a)pyrene	1,000	1,000	ND		301	ND		274	ND		267
Benzo(b)fluoranthene	1,000	1,000	ND		301	ND		274	ND		267
Benzo(g,h,i)perylene	100,000	100,000	ND		301	ND		274	ND		267
Benzo(k)fluoranthene	800	3,900	ND		301	ND		274	ND		267
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		301	ND		274	ND		267
Benzyl butyl phthalate	NE	NE	ND		301	ND		274	ND		267
Bis(2-chloroethoxy)methane	NE	NE	ND		301	ND		274	ND		267
Bis(2-chloroethyl)ether	NE	NE	ND		301	ND		274	ND		267
Bis(2-chloroisopropyl)ether	NE	NE	ND		301	ND		274	ND		267
Bis(2-ethylhexyl)phthalate	NE	50,000	ND		301	ND		274	ND		267
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		301	ND		274	ND		267
Dibenzo(a,h)anthracene	330	330	ND		301	ND		274	ND		267
Dibenzofuran	NE	NE	ND		301	ND		274	ND		267
Diethyl phthalate	NE	100,000	ND		301	ND		274	ND		267
Dimethyl phthalate	NE	100,000	ND		301	ND		274	ND		267
Di-n-butyl phthalate	NE	100,000	ND		301	ND		274	ND		267
Di-n-octyl phthalate	NE	100,000	ND		301	ND		274	ND		267
Fluoranthene	100,000	100,000	ND		301	ND		274	ND		267
Fluorene	30,000	100,000	ND		301	ND		274	ND		267
Hexachlorobenzene	NE	410	ND		301	ND		274	ND		267
Hexachlorobutadiene	NE	NE	ND		301	ND		274	ND		267
Hexachlorocyclopentadiene	NE	NE	ND		301	ND		274	ND		267
Hexachloroethane	NE	NE	ND		301	ND		274	ND		267
Indeno(1,2,3-cd)pyrene	500	500	ND		301	ND		274	ND		267
Isophorone	NE	100,000	ND		301	ND		274	ND		267
Naphthalene	12,000	100,000	ND		301	ND		274	ND		267
Nitrobenzene	NE	15,000	ND		301	ND		274	ND		267
N-Nitrosodimethylamine	NE	NE	ND		301	ND		274	ND		267
N-nitroso-di-n-propylamine	NE	NE	ND		301	ND		274	ND		267
N-Nitrosodiphenylamine	NE	NE	ND		301	ND		274	ND		267
Pentachlorophenol	800	6,700	ND		301	ND		274	ND		267
Phenanthrene	100,000	100,000	ND		301	ND		274	ND		267
Phenol	330	100,000	ND		301	ND		274	ND		267
Pyrene	100,000	100,000	ND		301	ND		274	ND		267
Pyridine	NE	NE	ND	R	301	ND	R	274	ND	R	267
Total TICs	NE	NE	ND	J	298	ND	J	271	ND	J	264

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		MW-32 (10-15) (2013-07-31)			2SB-1/MW-34 (10-15) (2013-08-01)			2SB-1/MW-34 (15-20) (2013-08-01)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	NE	NE	ND		291	ND		14,900	ND		312
1,2-Dichlorobenzene	NE	NE	ND		291	ND		14,900	ND		312
1,3-Dichlorobenzene	NE	NE	ND		291	ND		14,900	ND		312
1,4-Dichlorobenzene	NE	NE	ND		291	ND		14,900	ND		312
2,4,5-Trichlorophenol	NE	100,000	ND		291	ND		14,900	ND		312
2,4,6-Trichlorophenol	NE	NE	ND		291	ND		14,900	ND		312
2,4-Dichlorophenol	NE	100,000	ND		291	ND		14,900	ND		312
2,4-Dimethylphenol	NE	NE	ND		291	ND		14,900	ND		312
2,4-Dinitrophenol	NE	100,000	ND	R	581	ND	R	29,800	ND	R	623
2,4-Dinitrotoluene	NE	NE	ND		291	ND		14,900	ND		312
2,6-Dinitrotoluene	NE	1,030	ND		291	ND		14,900	ND		312
2-Chloronaphthalene	NE	NE	ND		291	ND		14,900	ND		312
2-Chlorophenol	NE	100,000	ND		291	ND		14,900	ND		312
2-Methylnaphthalene	NE	410	ND		291	ND		14,900	ND		312
2-Methylphenol	330	100,000	ND		291	ND		14,900	ND		312
2-Nitroaniline	NE	NE	ND		291	ND		14,900	ND		312
2-Nitrophenol	NE	NE	ND		291	ND		14,900	ND		312
3- & 4-Methylphenols	330	100,000	ND		291	ND		14,900	ND		312
3,3'-Dichlorobenzidine	NE	NE	ND		291	ND		14,900	ND		312
3-Nitroaniline	NE	NE	ND		291	ND		14,900	ND		312
4,6-Dinitro-2-methylphenol	NE	NE	ND		581	ND		29,800	ND		623
4-Bromophenyl phenyl ether	NE	NE	ND		291	ND		14,900	ND		312
4-Chloro-3-methylphenol	NE	NE	ND		291	ND		14,900	ND		312
4-Chloroaniline	NE	NE	ND		291	ND		14,900	ND		312
4-Chlorophenyl phenyl ether	NE	NE	ND		291	ND		14,900	ND		312
4-Nitroaniline	NE	NE	ND		291	ND		14,900	ND		312
4-Nitrophenol	NE	NE	ND		291	ND		14,900	ND		312
Acenaphthene	20,000	100,000	ND		291	ND		14,900	ND		312
Acenaphthylene	100,000	100,000	ND		291	ND		14,900	ND		312
Aniline	NE	100,000	ND		291	ND		14,900	ND		312
Anthracene	100,000	100,000	ND		291	ND		14,900	ND		312
Benzo(a)anthracene	1,000	1,000	ND		291	ND		14,900	ND		312
Benzo(a)pyrene	1,000	1,000	ND		291	ND		14,900	ND		312
Benzo(b)fluoranthene	1,000	1,000	ND		291	ND		14,900	ND		312
Benzo(g,h,i)perylene	100,000	100,000	ND		291	ND		14,900	ND		312
Benzo(k)fluoranthene	800	3,900	ND		291	ND		14,900	ND		312
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		291	ND		14,900	ND		312
Benzyl butyl phthalate	NE	NE	ND		291	ND		14,900	ND		312
Bis(2-chloroethoxy)methane	NE	NE	ND		291	ND		14,900	ND		312
Bis(2-chloroethyl)ether	NE	NE	ND		291	ND		14,900	ND		312
Bis(2-chloroisopropyl)ether	NE	NE	ND		291	ND		14,900	ND		312
Bis(2-ethylhexyl)phthalate	NE	50,000	ND		291	**93,700**		14,900	ND		312
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		291	ND		14,900	ND		312
Dibenzo(a,h)anthracene	330	330	ND		291	ND		14,900	ND		312
Dibenzofuran	NE	NE	ND		291	ND		14,900	ND		312
Diethyl phthalate	NE	100,000	ND		291	ND		14,900	ND		312
Dimethyl phthalate	NE	100,000	ND		291	ND		14,900	ND		312
Di-n-butyl phthalate	NE	100,000	ND		291	ND		14,900	ND		312
Di-n-octyl phthalate	NE	100,000	ND		291	87,500		14,900	ND		312
Fluoranthene	100,000	100,000	ND		291	ND		14,900	ND		312
Fluorene	30,000	100,000	ND		291	ND		14,900	ND		312
Hexachlorobenzene	NE	410	ND		291	ND		14,900	ND		312
Hexachlorobutadiene	NE	NE	ND		291	ND		14,900	ND		312
Hexachlorocyclopentadiene	NE	NE	ND		291	ND		14,900	ND		312
Hexachloroethane	NE	NE	ND		291	ND		14,900	ND		312
Indeno(1,2,3-cd)pyrene	500	500	ND		291	ND		14,900	ND		312
Isophorone	NE	100,000	ND		291	ND		14,900	ND		312
Naphthalene	12,000	100,000	ND		291	ND		14,900	ND		312
Nitrobenzene	NE	15,000	ND		291	ND		14,900	ND		312
N-Nitrosodimethylamine	NE	NE	ND		291	ND		14,900	ND		312
N-nitroso-di-n-propylamine	NE	NE	ND		291	ND		14,900	ND		312
N-Nitrosodiphenylamine	NE	NE	ND		291	ND		14,900	ND		312
Pentachlorophenol	800	6,700	ND		291	ND		14,900	ND		312
Phenanthrene	100,000	100,000	ND		291	ND		14,900	ND		312
Phenol	330	100,000	ND		291	ND		14,900	ND		312
Pyrene	100,000	100,000	ND		291	ND		14,900	ND		312
Pyridine	NE	NE	ND	R	291	ND	R	14,900	ND	R	312
Total TICs	NE	NE	ND	J	288	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		2SB-9/MW-35 (0-5) (2013-08-01)			2SB-9/MW-35 (10-15) (2013-08-01)			MW-36 (11-12) (2014-07-30)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	NE	NE	ND		255	ND		334	ND		50.7
1,2-Dichlorobenzene	NE	NE	ND		255	ND		334	ND		50.7
1,3-Dichlorobenzene	NE	NE	ND		255	ND		334	ND		50.7
1,4-Dichlorobenzene	NE	NE	ND		255	ND		334	ND		50.7
2,4,5-Trichlorophenol	NE	100,000	ND		255	ND		334	ND		50.7
2,4,6-Trichlorophenol	NE	NE	ND		255	ND		334	ND		50.7
2,4-Dichlorophenol	NE	100,000	ND		255	ND		334	ND		101
2,4-Dimethylphenol	NE	NE	ND		255	ND		334	ND		50.7
2,4-Dinitrophenol	NE	100,000	ND	R	510	ND	R	669	ND		202
2,4-Dinitrotoluene	NE	NE	ND		255	ND		334	ND		101
2,6-Dinitrotoluene	NE	1,030	ND		255	ND		334	ND		50.7
2-Chloronaphthalene	NE	NE	ND		255	ND		334	ND		50.7
2-Chlorophenol	NE	100,000	ND		255	ND		334	ND		50.7
2-Methylnaphthalene	NE	410	ND		255	ND		334	ND		50.7
2-Methylphenol	330	100,000	ND		255	ND		334	ND		101
2-Nitroaniline	NE	NE	ND		255	ND		334	ND		50.7
2-Nitrophenol	NE	NE	ND		255	ND		334	ND		50.7
3- & 4-Methylphenols	330	100,000	ND		255	ND		334	ND		101
3,3'-Dichlorobenzidine	NE	NE	ND		255	ND		334	ND		202
3-Nitroaniline	NE	NE	ND		255	ND		334	ND		101
4,6-Dinitro-2-methylphenol	NE	NE	ND		510	ND		669	ND		101
4-Bromophenyl phenyl ether	NE	NE	ND		255	ND		334	ND		50.7
4-Chloro-3-methylphenol	NE	NE	ND		255	ND		334	ND		101
4-Chloroaniline	NE	NE	ND		255	ND		334	ND		101
4-Chlorophenyl phenyl ether	NE	NE	ND		255	ND		334	ND		50.7
4-Nitroaniline	NE	NE	ND		255	ND		334	ND		101
4-Nitrophenol	NE	NE	ND		255	ND		334	ND		101
Acenaphthene	20,000	100,000	ND		255	ND		334	ND		50.7
Acenaphthylene	100,000	100,000	ND		255	ND		334	ND		50.7
Aniline	NE	100,000	ND		255	ND		334	*NA*		-
Anthracene	100,000	100,000	ND		255	ND		334	ND		50.7
Benzo(a)anthracene	1,000	1,000	ND		255	ND		334	ND		50.7
Benzo(a)pyrene	1,000	1,000	ND		255	ND		334	ND		50.7
Benzo(b)fluoranthene	1,000	1,000	ND		255	ND		334	ND		50.7
Benzo(g,h,i)perylene	100,000	100,000	ND		255	ND		334	ND		101
Benzo(k)fluoranthene	800	3,900	ND		255	ND		334	ND		50.7
Benzoic acid			*NA*		-	*NA*		-	ND		138
Benzyl alcohol	NE	NE	ND		255	ND		334	ND		101
Benzyl butyl phthalate	NE	NE	ND		255	ND		334	ND		50.7
Bis(2-chloroethoxy)methane	NE	NE	ND		255	ND		334	ND		50.7
Bis(2-chloroethyl)ether	NE	NE	ND		255	ND		334	ND		50.7
Bis(2-chloroisopropyl)ether	NE	NE	ND		255	ND		334	ND		50.7
Bis(2-ethylhexyl)phthalate	NE	50,000	3,870		510	2,640		334	ND		50.7
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		255	ND		334	ND		50.7
Dibenzo(a,h)anthracene	330	330	ND		255	ND		334	ND		50.7
Dibenzofuran	NE	NE	ND		255	ND		334	ND		50.7
Diethyl phthalate	NE	100,000	ND		255	ND		334	ND		50.7
Dimethyl phthalate	NE	100,000	ND		255	ND		334	ND		50.7
Di-n-butyl phthalate	NE	100,000	ND		255	ND		334	ND		50.7
Di-n-octyl phthalate	NE	100,000	ND		255	884		334	ND		50.7
Fluoranthene	100,000	100,000	ND		255	ND		334	ND		50.7
Fluorene	30,000	100,000	ND		255	ND		334	ND		50.7
Hexachlorobenzene	NE	410	ND		255	ND		334	ND		50.7
Hexachlorobutadiene	NE	NE	ND		255	ND		334	ND		50.7
Hexachlorocyclopentadiene	NE	NE	ND		255	ND		334	ND		101
Hexachloroethane	NE	NE	ND		255	ND		334	ND		50.7
Indeno(1,2,3-cd)pyrene	500	500	ND		255	ND		334	ND		50.7
Isophorone	NE	100,000	ND		255	ND		334	ND		50.7
Naphthalene	12,000	100,000	ND		255	ND		334	ND		50.7
Nitrobenzene	NE	15,000	ND		255	ND		334	ND		50.7
N-Nitrosodimethylamine	NE	NE	ND		255	ND		334	*NA*		-
N-nitroso-di-n-propylamine	NE	NE	ND		255	ND		334	ND		50.7
N-Nitrosodiphenylamine	NE	NE	ND		255	ND		334	ND		50.7
Pentachlorophenol	800	6,700	ND		255	ND		334	ND		101
Phenanthrene	100,000	100,000	ND		255	ND		334	ND		50.7
Phenol	330	100,000	ND		255	ND		334	ND		50.7
Pyrene	100,000	100,000	ND		255	ND		334	ND		50.7
Pyridine	NE	NE	ND	R	255	ND	R	334	*NA*		-
Total TICs	NE	NE	*NA*		-	*NA*		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		MW-37 (11-12) (2014-07-30)			MW-Dup-01 (2014-07-30) (MW-37 11-12)			MW-39 (10-11) (2014-09-23)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	NE	NE	ND		54	ND		54	ND	U	177
1,2-Dichlorobenzene	NE	NE	ND		54	ND		54	ND	U	177
1,3-Dichlorobenzene	NE	NE	ND		54	ND		54	ND	U	177
1,4-Dichlorobenzene	NE	NE	ND		54	ND		54	ND	U	177
2,4,5-Trichlorophenol	NE	100,000	ND		54	ND		54	ND	U	177
2,4,6-Trichlorophenol	NE	NE	ND		54	ND		54	ND	U	177
2,4-Dichlorophenol	NE	100,000	ND		108	ND		109	ND	U	177
2,4-Dimethylphenol	NE	NE	ND		54	ND		54	ND	U	177
2,4-Dinitrophenol	NE	100,000	ND		215	ND		216	ND	U	353
2,4-Dinitrotoluene	NE	NE	ND		108	ND		109	381		177
2,6-Dinitrotoluene	NE	1,030	ND		54	ND		54	ND	U	177
2-Chloronaphthalene	NE	NE	ND		54	ND		54	ND	U	177
2-Chlorophenol	NE	100,000	ND		54	ND		54	ND	U	177
2-Methylnaphthalene	NE	410	ND		54	ND		54	ND	U	177
2-Methylphenol	330	100,000	ND		108	ND		109	ND	U	177
2-Nitroaniline	NE	NE	ND		54	ND		54	ND	U	177
2-Nitrophenol	NE	NE	ND		54	ND		54	ND	U	177
3- & 4-Methylphenols	330	100,000	ND		108	ND		109	ND	U	177
3,3'-Dichlorobenzidine	NE	NE	ND		215	ND		216	ND	U	353
3-Nitroaniline	NE	NE	ND		108	ND		109	ND	U	177
4,6-Dinitro-2-methylphenol	NE	NE	ND		108	ND		109	ND	U	177
4-Bromophenyl phenyl ether	NE	NE	ND		54	ND		54	ND	U	177
4-Chloro-3-methylphenol	NE	NE	ND		108	ND		109	ND	U	177
4-Chloroaniline	NE	NE	ND		108	ND		109	ND	U	177
4-Chlorophenyl phenyl ether	NE	NE	ND		54	ND		54	ND	U	177
4-Nitroaniline	NE	NE	ND		108	ND		109	ND	U	177
4-Nitrophenol	NE	NE	ND		108	ND		109	ND	U	177
Acenaphthene	20,000	100,000	ND		54	ND		54	ND	U	177
Acenaphthylene	100,000	100,000	ND		54	ND		54	ND	U	177
Aniline	NE	100,000	*NA*		-	*NA*		-	*NA*		-
Anthracene	100,000	100,000	ND		54	ND		54	ND	U	177
Benzo(a)anthracene	1,000	1,000	ND		54	ND		54	282		177
Benzo(a)pyrene	1,000	1,000	ND		54	ND		54	157	J	177
Benzo(b)fluoranthene	1,000	1,000	ND		54	ND		54	101	J	177
Benzo(g,h,i)perylene	100,000	100,000	ND		108	ND		109	ND	U	177
Benzo(k)fluoranthene	800	3,900	ND		54	ND		54	153	J	177
Benzoic acid			ND		147	ND		148	ND	U	353
Benzyl alcohol	NE	NE	ND		108	ND		109	ND	U	177
Benzyl butyl phthalate	NE	NE	ND		54	ND		54	ND	U	177
Bis(2-chloroethoxy)methane	NE	NE	ND		54	ND		54	ND	U	177
Bis(2-chloroethyl)ether	NE	NE	ND		54	ND		54	ND	U	177
Bis(2-chloroisopropyl)ether	NE	NE	ND		54	ND		54	ND	U	177
Bis(2-ethylhexyl)phthalate	NE	50,000	ND		54	ND		54	101	J	177
Carbazole	NE	NE	*NA*		-	*NA*		-	ND	U	177
Chrysene	1,000	3,900	ND		54	ND		54	271		177
Dibenzo(a,h)anthracene	330	330	ND		54	ND		54	ND	U	177
Dibenzofuran	NE	NE	ND		54	ND		54	ND	U	177
Diethyl phthalate	NE	100,000	ND		54	ND		54	ND	U	177
Dimethyl phthalate	NE	100,000	ND		54	ND		54	ND	U	177
Di-n-butyl phthalate	NE	100,000	ND		54	ND		54	ND	U	177
Di-n-octyl phthalate	NE	100,000	ND		54	ND		54	ND	U	177
Fluoranthene	100,000	100,000	ND		54	ND		54	396		177
Fluorene	30,000	100,000	ND		54	ND		54	ND	U	177
Hexachlorobenzene	NE	410	ND		54	ND		54	ND	U	177
Hexachlorobutadiene	NE	NE	ND		54	ND		54	ND	U	177
Hexachlorocyclopentadiene	NE	NE	ND		108	ND		109	ND	U	177
Hexachloroethane	NE	NE	ND		54	ND		54	ND	U	177
Indeno(1,2,3-cd)pyrene	500	500	ND		54	ND		54	ND	U	177
Isophorone	NE	100,000	ND		54	ND		54	ND	U	177
Naphthalene	12,000	100,000	ND		54	ND		54	ND	U	177
Nitrobenzene	NE	15,000	ND		54	ND		54	ND	U	177
N-Nitrosodimethylamine	NE	NE	*NA*		-	*NA*		-	*NA*		-
N-nitroso-di-n-propylamine	NE	NE	ND		54	ND		54	ND	U	177
N-Nitrosodiphenylamine	NE	NE	ND		54	ND		54	ND	U	177
Pentachlorophenol	800	6,700	ND		108	ND		109	ND	U	177
Phenanthrene	100,000	100,000	ND		54	ND		54	ND	U	177
Phenol	330	100,000	ND		54	ND		54	ND	U	177
Pyrene	100,000	100,000	ND		54	ND		54	471		177
Pyridine	NE	NE	*NA*		-	*NA*		-	*NA*		-
Total TICs	NE	NE	ND		-	ND		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs) Unrestricted	Restricted-Residential	MW-41 (8-10) (2014-12-10) Result	Flag	RL	MW-Dup-02 (2014-12-10) (MW-41 8-10) Result	Flag	RL	MW-42 (8-10) (2014-12-10) Result	Flag	RL
1,2,4-Trichlorobenzene	NE	NE	ND		28	ND		28	ND		28
1,2-Dichlorobenzene	NE	NE	ND		28	ND		28	ND		28
1,3-Dichlorobenzene	NE	NE	ND		28	ND		28	ND		28
1,4-Dichlorobenzene	NE	NE	ND		28	ND		28	ND		28
2,4,5-Trichlorophenol	NE	100,000	ND		28	ND		28	ND		28
2,4,6-Trichlorophenol	NE	NE	ND		28	ND		28	ND		28
2,4-Dichlorophenol	NE	100,000	ND		28	ND		28	ND		28
2,4-Dimethylphenol	NE	NE	ND		28	ND		28	ND		28
2,4-Dinitrophenol	NE	100,000	ND		56	ND		56	ND		57
2,4-Dinitrotoluene	NE	NE	ND		28	ND		28	ND		28
2,6-Dinitrotoluene	NE	1,030	ND		28	ND		28	ND		28
2-Chloronaphthalene	NE	NE	ND		28	ND		28	ND		28
2-Chlorophenol	NE	100,000	ND		28	ND		28	ND		28
2-Methylnaphthalene	NE	410	ND		28	ND		28	ND		28
2-Methylphenol	330	100,000	ND		28	ND		28	ND		28
2-Nitroaniline	NE	NE	ND		56	ND		56	ND		57
2-Nitrophenol	NE	NE	ND		28	ND		28	ND		28
3- & 4-Methylphenols	330	100,000	ND		28	ND		28	ND		28
3,3'-Dichlorobenzidine	NE	NE	ND		28	ND		28	ND		28
3-Nitroaniline	NE	NE	ND		56	ND		56	ND		57
4,6-Dinitro-2-methylphenol	NE	NE	ND		56	ND		56	ND		57
4-Bromophenyl phenyl ether	NE	NE	ND		28	ND		28	ND		28
4-Chloro-3-methylphenol	NE	NE	ND		28	ND		28	ND		28
4-Chloroaniline	NE	NE	ND		28	ND		28	ND		28
4-Chlorophenyl phenyl ether	NE	NE	ND		28	ND		28	ND		28
4-Nitroaniline	NE	NE	ND		56	ND		56	ND		57
4-Nitrophenol	NE	NE	ND		56	ND		56	ND		57
Acenaphthene	20,000	100,000	ND		28	ND		28	ND		28
Acenaphthylene	100,000	100,000	ND		28	ND		28	ND		28
Aniline	NE	100,000	*NA*		-	*NA*		-	*NA*		-
Anthracene	100,000	100,000	ND		28	ND		28	ND		28
Benzo(a)anthracene	1,000	1,000	ND		28	ND		28	ND		28
Benzo(a)pyrene	1,000	1,000	ND		28	ND		28	ND		28
Benzo(b)fluoranthene	1,000	1,000	ND		28	ND		28	ND		28
Benzo(g,h,i)perylene	100,000	100,000	ND		28	ND		28	ND		28
Benzo(k)fluoranthene	800	3,900	ND		28	ND		28	ND		28
Benzoic acid			ND		28	ND		28	ND		28
Benzyl alcohol	NE	NE	ND		28	ND		28	ND		28
Benzyl butyl phthalate	NE	NE	ND		28	ND		28	ND		28
Bis(2-chloroethoxy)methane	NE	NE	ND		28	ND		28	ND		28
Bis(2-chloroethyl)ether	NE	NE	ND		28	ND		28	ND		28
Bis(2-chloroisopropyl)ether	NE	NE	ND		28	ND		28	ND		28
Bis(2-ethylhexyl)phthalate	NE	50,000	ND		28	37.2	J,B	37	ND		28
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		28	ND		28	ND		28
Dibenzo(a,h)anthracene	330	330	ND		28	ND		28	ND		28
Dibenzofuran	NE	NE	ND		28	ND		28	ND		28
Diethyl phthalate	NE	100,000	ND		28	ND		28	ND		28
Dimethyl phthalate	NE	100,000	ND		28	ND		28	ND		28
Di-n-butyl phthalate	NE	100,000	ND		28	ND		28	ND		28
Di-n-octyl phthalate	NE	100,000	ND		28	ND		28	ND		28
Fluoranthene	100,000	100,000	ND		28	ND		28	ND		28
Fluorene	30,000	100,000	ND		28	ND		28	ND		28
Hexachlorobenzene	NE	410	ND		28	ND		28	ND		28
Hexachlorobutadiene	NE	NE	ND		28	ND		28	ND		28
Hexachlorocyclopentadiene	NE	NE	ND		28	ND		28	ND		28
Hexachloroethane	NE	NE	ND		28	ND		28	ND		28
Indeno(1,2,3-cd)pyrene	500	500	ND		28	ND		28	ND		28
Isophorone	NE	100,000	ND		28	ND		28	ND		28
Naphthalene	12,000	100,000	ND		28	ND		28	ND		28
Nitrobenzene	NE	15,000	ND		28	ND		28	ND		28
N-Nitrosodimethylamine	NE	NE	*NA*		-	*NA*		-	*NA*		-
N-nitroso-di-n-propylamine	NE	NE	ND		28	ND		28	ND		28
N-Nitrosodiphenylamine	NE	NE	ND		28	ND		28	ND		28
Pentachlorophenol	800	6,700	ND		28	ND		28	ND		28
Phenanthrene	100,000	100,000	ND		28	ND		28	ND		28
Phenol	330	100,000	ND		28	ND		28	ND		28
Pyrene	100,000	100,000	ND		28	ND		28	ND		28
Pyridine	NE	NE	*NA*		-	*NA*		-	*NA*		-
Total TICs	NE	NE	ND		-	ND		-	188		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		SB-60 (2012-02-01)	Note: Sampled from 12-14'		SB-60B (6-8) (2012-02-13)			SB-60B (8-10) (2012-02-13)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
1,2-Dichlorobenzene	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
1,3-Dichlorobenzene	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
1,4-Dichlorobenzene	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
2,4,5-Trichlorophenol	NE	100,000	ND		4,420,000	ND		18,300	ND		17,600
2,4,6-Trichlorophenol	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
2,4-Dichlorophenol	NE	100,000	ND		4,420,000	ND		18,300	ND		17,600
2,4-Dimethylphenol	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
2,4-Dinitrophenol	NE	100,000	ND		8,850,000	ND		36,500	ND		35,100
2,4-Dinitrotoluene	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
2,6-Dinitrotoluene	NE	1,030	ND		4,420,000	ND		18,300	ND		17,600
2-Chloronaphthalene	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
2-Chlorophenol	NE	100,000	ND		4,420,000	ND		18,300	ND		17,600
2-Methylnaphthalene	NE	410	ND		4,420,000	ND		18,300	ND		17,600
2-Methylphenol	330	100,000	ND		4,420,000	ND		18,300	ND		17,600
2-Nitroaniline	NE	NE	ND		4,420,000	ND		18,300	ND		3,510
2-Nitrophenol	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
3- & 4-Methylphenols	330	100,000	ND		4,420,000	ND		18,300	ND		17,600
3,3'-Dichlorobenzidine	NE	NE	ND		8,840,000	ND		18,300	ND		17,600
3-Nitroaniline	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
4,6-Dinitro-2-methylphenol	NE	NE	ND		4,420,000	ND		36,500	ND		35,100
4-Bromophenyl phenyl ether	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
4-Chloro-3-methylphenol	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
4-Chloroaniline	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
4-Chlorophenyl phenyl ether	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
4-Nitroaniline	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
4-Nitrophenol	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
Acenaphthene	20,000	100,000	ND		4,420,000	ND		18,300	ND		17,600
Acenaphthylene	100,000	100,000	ND		4,420,000	ND		18,300	ND		17,600
Aniline	NE	100,000	ND		4,420,000	ND		18,300	ND		17,600
Anthracene	100,000	100,000	ND		4,420,000	ND		18,300	ND		17,600
Benzo(a)anthracene	1,000	1,000	ND		4,420,000	ND		18,300	ND		17,600
Benzo(a)pyrene	1,000	1,000	ND		4,420,000	ND		18,300	ND		17,600
Benzo(b)fluoranthene	1,000	1,000	ND		4,420,000	ND		18,300	ND		17,600
Benzo(g,h,i)perylene	100,000	100,000	ND		4,420,000	ND		18,300	ND		17,600
Benzo(k)fluoranthene	800	3,900	ND		4,420,000	ND		18,300	ND		17,600
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
Benzyl butyl phthalate	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
Bis(2-chloroethoxy)methane	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
Bis(2-chloroethyl)ether	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
Bis(2-chloroisopropyl)ether	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
Bis(2-ethylhexyl)phthalate	NE	50,000	**10,300,000**		4,420,000	46,300		18,300	**228,000**		17,600
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		4,420,000	ND		18,300	ND		17,600
Dibenzo(a,h)anthracene	330	330	ND		4,420,000	ND		18,300	ND		17,600
Dibenzofuran	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
Diethyl phthalate	NE	100,000	ND		4,420,000	ND		18,300	ND		17,600
Dimethyl phthalate	NE	100,000	ND		4,420,000	ND		18,300	ND		17,600
Di-n-butyl phthalate	NE	100,000	ND		4,420,000	ND		18,300	ND		17,600
Di-n-octyl phthalate	NE	100,000	ND		4,420,000	10,300	J	18,300	17,000	J	17,600
Fluoranthene	100,000	100,000	ND		4,420,000	ND		18,300	ND		17,600
Fluorene	30,000	100,000	ND		4,420,000	ND		18,300	ND		17,600
Hexachlorobenzene	NE	410	ND		4,420,000	ND		18,300	ND		17,600
Hexachlorobutadiene	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
Hexachlorocyclopentadiene	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
Hexachloroethane	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
Indeno(1,2,3-cd)pyrene	500	500	ND		4,420,000	ND		18,300	ND		17,600
Isophorone	NE	100,000	ND		4,420,000	ND		18,300	ND		17,600
Naphthalene	12,000	100,000	ND		4,420,000	ND		18,300	ND		17,600
Nitrobenzene	NE	15,000	ND		4,420,000	ND		18,300	ND		17,600
N-Nitrosodimethylamine	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
N-nitroso-di-n-propylamine	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
N-Nitrosodiphenylamine	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
Pentachlorophenol	800	6,700	ND		4,420,000	ND		18,300	ND		17,600
Phenanthrene	100,000	100,000	ND		4,420,000	ND		18,300	ND		17,600
Phenol	330	100,000	ND		4,420,000	ND		18,300	ND		17,600
Pyrene	100,000	100,000	ND		4,420,000	ND		18,300	ND		17,600
Pyridine	NE	NE	ND		4,420,000	ND		18,300	ND		17,600
Total TICs	NE	NE	2,125		-	256		-	351		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		SB-60B (10-12) (2012-02-13)			SB-61 (2012-02-01)	Note: Sampled from 12-14'		SB-63 (2012-02-01)	Note: Sampled from 12-14'	
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
1,2-Dichlorobenzene	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
1,3-Dichlorobenzene	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
1,4-Dichlorobenzene	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
2,4,5-Trichlorophenol	NE	100,000	ND		35,000	ND		4,700,000	ND		954,000
2,4,6-Trichlorophenol	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
2,4-Dichlorophenol	NE	100,000	ND		35,000	ND		4,700,000	ND		954,000
2,4-Dimethylphenol	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
2,4-Dinitrophenol	NE	100,000	ND		70,000	ND		9,410,000	ND		1,910,000
2,4-Dinitrotoluene	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
2,6-Dinitrotoluene	NE	1,030	ND		35,000	ND		4,700,000	ND		954,000
2-Chloronaphthalene	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
2-Chlorophenol	NE	100,000	ND		35,000	ND		4,700,000	ND		954,000
2-Methylnaphthalene	NE	410	ND		35,000	ND		4,700,000	ND		954,000
2-Methylphenol	330	100,000	ND		35,000	ND		4,700,000	ND		954,000
2-Nitroaniline	NE	NE	ND		17,500	ND		4,700,000	ND		954,000
2-Nitrophenol	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
3- & 4-Methylphenols	330	100,000	ND		35,000	ND		4,700,000	ND		954,000
3,3'-Dichlorobenzidine	NE	NE	ND		35,000	ND		9,400,000	ND		1,910,000
3-Nitroaniline	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
4,6-Dinitro-2-methylphenol	NE	NE	ND		70,000	ND	R	4,700,000	ND		954,000
4-Bromophenyl phenyl ether	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
4-Chloro-3-methylphenol	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
4-Chloroaniline	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
4-Chlorophenyl phenyl ether	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
4-Nitroaniline	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
4-Nitrophenol	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
Acenaphthene	20,000	100,000	ND		35,000	ND		4,700,000	ND		954,000
Acenaphthylene	100,000	100,000	ND		35,000	ND		4,700,000	ND		954,000
Aniline	NE	100,000	ND		35,000	ND		4,700,000	ND		954,000
Anthracene	100,000	100,000	ND		35,000	ND		4,700,000	ND		954,000
Benzo(a)anthracene	1,000	1,000	ND		35,000	ND		4,700,000	ND		954,000
Benzo(a)pyrene	1,000	1,000	ND		35,000	ND		4,700,000	ND		954,000
Benzo(b)fluoranthene	1,000	1,000	ND		35,000	ND		4,700,000	ND		954,000
Benzo(g,h,i)perylene	100,000	100,000	ND		35,000	ND		4,700,000	ND		954,000
Benzo(k)fluoranthene	800	3,900	ND		35,000	ND		4,700,000	ND		954,000
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
Benzyl butyl phthalate	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
Bis(2-chloroethoxy)methane	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
Bis(2-chloroethyl)ether	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
Bis(2-chloroisopropyl)ether	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
Bis(2-ethylhexyl)phthalate	NE	50,000	**548,000**		35,000	**22,500,000**		4,700,000	**1,310,000**		954,000
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		35,000	ND		4,700,000	ND		954,000
Dibenzo(a,h)anthracene	330	330	ND		35,000	ND		4,700,000	ND		954,000
Dibenzofuran	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
Diethyl phthalate	NE	100,000	ND		35,000	ND		4,700,000	ND		954,000
Dimethyl phthalate	NE	100,000	ND		35,000	ND		4,700,000	ND		954,000
Di-n-butyl phthalate	NE	100,000	ND		35,000	ND		4,700,000	ND		954,000
Di-n-octyl phthalate	NE	100,000	43,000		35,000	ND		4,700,000	ND		954,000
Fluoranthene	100,000	100,000	ND		35,000	ND		4,700,000	ND		954,000
Fluorene	30,000	100,000	ND		35,000	ND		4,700,000	ND		954,000
Hexachlorobenzene	NE	410	ND		35,000	ND		4,700,000	ND		954,000
Hexachlorobutadiene	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
Hexachlorocyclopentadiene	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
Hexachloroethane	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
Indeno(1,2,3-cd)pyrene	500	500	ND		35,000	ND		4,700,000	ND		954,000
Isophorone	NE	100,000	ND		35,000	ND		4,700,000	ND		954,000
Naphthalene	12,000	100,000	ND		35,000	ND		4,700,000	ND		954,000
Nitrobenzene	NE	15,000	ND		35,000	ND		4,700,000	ND		954,000
N-Nitrosodimethylamine	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
N-nitroso-di-n-propylamine	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
N-Nitrosodiphenylamine	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
Pentachlorophenol	800	6,700	ND		35,000	ND		4,700,000	ND		954,000
Phenanthrene	100,000	100,000	ND		35,000	ND		4,700,000	ND		954,000
Phenol	330	100,000	ND		35,000	ND		4,700,000	ND		954,000
Pyrene	100,000	100,000	ND		35,000	ND		4,700,000	ND		954,000
Pyridine	NE	NE	ND		35,000	ND		4,700,000	ND		954,000
Total TICs	NE	NE	560		-	ND		-	954		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		SB-63 (14) (2012-02-10)			SB-65 (8-12) (2012-04-19)			SB-66 (12-16) (2012-04-19)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,2,4-Trichlorobenzene	NE	NE	ND		20,600	ND		188,000	ND		93,000
1,2-Dichlorobenzene	NE	NE	ND		20,600	ND		188,000	ND		93,000
1,3-Dichlorobenzene	NE	NE	ND		20,600	ND		188,000	ND		93,000
1,4-Dichlorobenzene	NE	NE	ND		20,600	ND		188,000	ND		93,000
2,4,5-Trichlorophenol	NE	100,000	ND		20,600	ND		188,000	ND		93,000
2,4,6-Trichlorophenol	NE	NE	ND		20,600	ND		188,000	ND		93,000
2,4-Dichlorophenol	NE	100,000	ND		20,600	ND		188,000	ND		93,000
2,4-Dimethylphenol	NE	NE	ND		20,600	ND		188,000	ND		93,000
2,4-Dinitrophenol	NE	100,000	ND		41,300	ND		376,000	ND		186,000
2,4-Dinitrotoluene	NE	NE	ND		20,600	ND		188,000	ND		93,000
2,6-Dinitrotoluene	NE	1,030	ND		20,600	ND		188,000	ND		93,000
2-Chloronaphthalene	NE	NE	ND		20,600	ND		188,000	ND		93,000
2-Chlorophenol	NE	100,000	ND		20,600	ND		188,000	ND		93,000
2-Methylnaphthalene	NE	410	ND		20,600	ND		188,000	ND		93,000
2-Methylphenol	330	100,000	ND		20,600	ND		188,000	ND		93,000
2-Nitroaniline	NE	NE	ND		20,600	ND		188,000	ND		930
2-Nitrophenol	NE	NE	ND		20,600	ND		188,000	ND		93,000
3- & 4-Methylphenols	330	100,000	ND		20,600	ND		188,000	ND		93,000
3,3'-Dichlorobenzidine	NE	NE	ND		20,600	ND		188,000	ND		93,000
3-Nitroaniline	NE	NE	ND		20,600	ND		188,000	ND		93,000
4,6-Dinitro-2-methylphenol	NE	NE	ND		41,300	ND		376,000	ND		186,000
4-Bromophenyl phenyl ether	NE	NE	ND		20,600	ND		188,000	ND		93,000
4-Chloro-3-methylphenol	NE	NE	ND		20,600	ND		188,000	ND		93,000
4-Chloroaniline	NE	NE	ND		20,600	ND		188,000	ND		93,000
4-Chlorophenyl phenyl ether	NE	NE	ND		20,600	ND		188,000	ND		93,000
4-Nitroaniline	NE	NE	ND		20,600	ND		188,000	ND		93,000
4-Nitrophenol	NE	NE	ND		20,600	ND		188,000	ND		93,000
Acenaphthene	20,000	100,000	ND		20,600	ND		188,000	ND		93,000
Acenaphthylene	100,000	100,000	ND		20,600	ND		188,000	ND		93,000
Aniline	NE	100,000	ND		20,600	ND		188,000	ND		93,000
Anthracene	100,000	100,000	ND		20,600	ND		188,000	ND		93,000
Benzo(a)anthracene	1,000	1,000	ND		20,600	ND		188,000	ND		93,000
Benzo(a)pyrene	1,000	1,000	ND		20,600	ND		188,000	ND		93,000
Benzo(b)fluoranthene	1,000	1,000	ND		20,600	ND		188,000	ND		93,000
Benzo(g,h,i)perylene	100,000	100,000	ND		20,600	ND		188,000	ND		93,000
Benzo(k)fluoranthene	800	3,900	ND		20,600	ND		188,000	ND		93,000
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		20,600	ND		188,000	ND		93,000
Benzyl butyl phthalate	NE	NE	ND		20,600	ND		188,000	ND		93,000
Bis(2-chloroethoxy)methane	NE	NE	ND		20,600	ND		188,000	ND		93,000
Bis(2-chloroethyl)ether	NE	NE	ND		20,600	ND		188,000	ND		93,000
Bis(2-chloroisopropyl)ether	NE	NE	ND		20,600	ND		188,000	ND		93,000
Bis(2-ethylhexyl)phthalate	NE	50,000	**71,900**		20,600	**49,400,000**	E	1,880,000	**109,000**		93,000
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		20,600	ND		188,000	ND		93,000
Dibenzo(a,h)anthracene	330	330	ND		20,600	ND		188,000	ND		93,000
Dibenzofuran	NE	NE	ND		20,600	ND		188,000	ND		93,000
Diethyl phthalate	NE	100,000	ND		20,600	ND		188,000	ND		93,000
Dimethyl phthalate	NE	100,000	ND		20,600	ND		188,000	ND		93,000
Di-n-butyl phthalate	NE	100,000	ND		20,600	ND		188,000	ND		93,000
Di-n-octyl phthalate	NE	100,000	**104,000**		20,600	**935,000**		188,000	ND		93,000
Fluoranthene	100,000	100,000	ND		20,600	ND		188,000	ND		93,000
Fluorene	30,000	100,000	ND		20,600	ND		188,000	ND		93,000
Hexachlorobenzene	NE	410	ND		20,600	ND		188,000	ND		93,000
Hexachlorobutadiene	NE	NE	ND		20,600	ND		188,000	ND		93,000
Hexachlorocyclopentadiene	NE	NE	ND		20,600	ND		188,000	ND		93,000
Hexachloroethane	NE	NE	ND		20,600	ND		188,000	ND		93,000
Indeno(1,2,3-cd)pyrene	500	500	ND		20,600	ND		188,000	ND		93,000
Isophorone	NE	100,000	ND		20,600	ND		188,000	ND		93,000
Naphthalene	12,000	100,000	ND		20,600	ND		188,000	ND		93,000
Nitrobenzene	NE	15,000	ND		20,600	ND		188,000	ND		93,000
N-Nitrosodimethylamine	NE	NE	ND		20,600	ND		188,000	ND		93,000
N-nitroso-di-n-propylamine	NE	NE	ND		20,600	ND		188,000	ND		93,000
N-Nitrosodiphenylamine	NE	NE	ND		20,600	ND		188,000	ND		93,000
Pentachlorophenol	800	6,700	ND		20,600	ND		188,000	ND		93,000
Phenanthrene	100,000	100,000	ND		20,600	ND		188,000	ND		93,000
Phenol	330	100,000	ND		20,600	ND		188,000	ND		93,000
Pyrene	100,000	100,000	ND		20,600	ND		188,000	ND		93,000
Pyridine	NE	NE	ND		20,600	ND		188,000	ND		93,000
Total TICs	NE	NE	18,629		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		SB-67 (2012-02-02)	Note: Sampled from 12-14'		SB-68 (2012-02-01)	Note: Sampled from 12-13.5'		SB-69 (2012-02-01)	Note: Sampled from 12-14'	
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,2,4-Trichlorobenzene	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
1,2-Dichlorobenzene	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
1,3-Dichlorobenzene	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
1,4-Dichlorobenzene	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
2,4,5-Trichlorophenol	NE	100,000	ND		4,420,000	ND		1,050,000	ND		201
2,4,6-Trichlorophenol	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
2,4-Dichlorophenol	NE	100,000	ND		4,420,000	ND		1,050,000	ND		201
2,4-Dimethylphenol	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
2,4-Dinitrophenol	NE	100,000	ND		8,830,000	ND		2,100,000	ND		402
2,4-Dinitrotoluene	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
2,6-Dinitrotoluene	NE	1,030	ND		4,420,000	ND		1,050,000	ND		201
2-Chloronaphthalene	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
2-Chlorophenol	NE	100,000	ND		4,420,000	ND		1,050,000	ND		201
2-Methylnaphthalene	NE	410	ND		4,420,000	ND		1,050,000	ND		201
2-Methylphenol	330	100,000	ND		4,420,000	ND		1,050,000	ND		201
2-Nitroaniline	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
2-Nitrophenol	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
3- & 4-Methylphenols	330	100,000	ND		4,420,000	ND		1,050,000	ND		201
3,3'-Dichlorobenzidine	NE	NE	ND		8,820,000	ND		2,100,000	ND		402
3-Nitroaniline	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
4,6-Dinitro-2-methylphenol	NE	NE	ND	R	4,420,000	ND		1,050,000	ND	R	201
4-Bromophenyl phenyl ether	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
4-Chloro-3-methylphenol	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
4-Chloroaniline	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
4-Chlorophenyl phenyl ether	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
4-Nitroaniline	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
4-Nitrophenol	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
Acenaphthene	20,000	100,000	ND		4,420,000	ND		1,050,000	ND		201
Acenaphthylene	100,000	100,000	ND		4,420,000	ND		1,050,000	ND		201
Aniline	NE	100,000	ND		4,420,000	ND		1,050,000	ND		201
Anthracene	100,000	100,000	ND		4,420,000	ND		1,050,000	ND		201
Benzo(a)anthracene	1,000	1,000	ND		4,420,000	ND		1,050,000	ND		201
Benzo(a)pyrene	1,000	1,000	ND		4,420,000	ND		1,050,000	ND		201
Benzo(b)fluoranthene	1,000	1,000	ND		4,420,000	ND		1,050,000	ND		201
Benzo(g,h,i)perylene	100,000	100,000	ND		4,420,000	ND		1,050,000	ND		201
Benzo(k)fluoranthene	800	3,900	ND		4,420,000	ND		1,050,000	ND		201
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
Benzyl butyl phthalate	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
Bis(2-chloroethoxy)methane	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
Bis(2-chloroethyl)ether	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
Bis(2-chloroisopropyl)ether	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
Bis(2-ethylhexyl)phthalate	NE	50,000	**18,900,000**		4,420,000	**2,670,000**		1,050,000	132	J	201
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		4,420,000	ND		1,050,000	ND		201
Dibenzo(a,h)anthracene	330	330	ND		4,420,000	ND		1,050,000	ND		201
Dibenzofuran	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
Diethyl phthalate	NE	100,000	ND		4,420,000	ND		1,050,000	ND		201
Dimethyl phthalate	NE	100,000	ND		4,420,000	ND		1,050,000	ND		201
Di-n-butyl phthalate	NE	100,000	ND		4,420,000	ND		1,050,000	ND		201
Di-n-octyl phthalate	NE	100,000	ND		4,420,000	ND		1,050,000	ND		201
Fluoranthene	100,000	100,000	ND		4,420,000	ND		1,050,000	ND		201
Fluorene	30,000	100,000	ND		4,420,000	ND		1,050,000	ND		201
Hexachlorobenzene	NE	410	ND		4,420,000	ND		1,050,000	ND		201
Hexachlorobutadiene	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
Hexachlorocyclopentadiene	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
Hexachloroethane	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
Indeno(1,2,3-cd)pyrene	500	500	ND		4,420,000	ND		1,050,000	ND		201
Isophorone	NE	100,000	ND		4,420,000	ND		1,050,000	ND		201
Naphthalene	12,000	100,000	ND		4,420,000	ND		1,050,000	ND		201
Nitrobenzene	NE	15,000	ND		4,420,000	ND		1,050,000	ND		201
N-Nitrosodimethylamine	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
N-nitroso-di-n-propylamine	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
N-Nitrosodiphenylamine	NE	NE	ND		4,420,000	ND		1,050,000	ND		201
Pentachlorophenol	800	6,700	ND		4,420,000	ND		1,050,000	ND		201
Phenanthrene	100,000	100,000	ND		4,420,000	ND		1,050,000	ND		201
Phenol	330	100,000	ND		4,420,000	ND		1,050,000	ND		201
Pyrene	100,000	100,000	ND		4,420,000	ND		1,050,000	ND		201
Pyridine	NE	NE	ND	R	4,420,000	ND		1,050,000	ND	R	201
Total TICs	NE	NE	ND		-	336		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		SB-71 (14) (2012-02-10)			SB-72 (13) (2012-02-16)			SB-72 (9) (2012-02-16)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	NE	NE	ND		937,000	ND		231	ND		4,440,000
1,2-Dichlorobenzene	NE	NE	ND		937,000	ND		231	ND		4,440,000
1,3-Dichlorobenzene	NE	NE	ND		937,000	ND		231	ND		4,440,000
1,4-Dichlorobenzene	NE	NE	ND		937,000	ND		231	ND		4,440,000
2,4,5-Trichlorophenol	NE	100,000	ND		937,000	*NA*		-	*NA*		-
2,4,6-Trichlorophenol	NE	NE	ND		937,000	*NA*		-	*NA*		-
2,4-Dichlorophenol	NE	100,000	ND		937,000	*NA*		-	*NA*		-
2,4-Dimethylphenol	NE	NE	ND		937,000	*NA*		-	*NA*		-
2,4-Dinitrophenol	NE	100,000	ND		1,870,000	*NA*		-	*NA*		-
2,4-Dinitrotoluene	NE	NE	ND		937,000	ND		231	ND		4,440,000
2,6-Dinitrotoluene	NE	1,030	ND		937,000	ND		231	ND		4,440,000
2-Chloronaphthalene	NE	NE	ND		937,000	ND		231	ND		4,440,000
2-Chlorophenol	NE	100,000	ND		937,000	*NA*		-	*NA*		-
2-Methylnaphthalene	NE	410	ND		937,000	ND		231	ND		4,440,000
2-Methylphenol	330	100,000	ND		937,000	*NA*		-	*NA*		-
2-Nitroaniline	NE	NE	ND		18,700	*NA*		-	*NA*		-
2-Nitrophenol	NE	NE	ND		937,000	*NA*		-	*NA*		-
3- & 4-Methylphenols	330	100,000	ND		937,000	*NA*		-	*NA*		-
3,3'-Dichlorobenzidine	NE	NE	ND		937,000	ND		231	ND		4,440,000
3-Nitroaniline	NE	NE	ND		937,000	ND		231	ND		4,440,000
4,6-Dinitro-2-methylphenol	NE	NE	ND		1,870,000	*NA*		-	*NA*		-
4-Bromophenyl phenyl ether	NE	NE	ND		937,000	ND		231	ND		4,440,000
4-Chloro-3-methylphenol	NE	NE	ND		937,000	ND		231	ND		4,440,000
4-Chloroaniline	NE	NE	ND		937,000	ND		231	ND		4,440,000
4-Chlorophenyl phenyl ether	NE	NE	ND		937,000	ND		231	ND		4,440,000
4-Nitroaniline	NE	NE	ND		937,000	ND		231	ND		4,440,000
4-Nitrophenol	NE	NE	ND		937,000	*NA*		-	*NA*		-
Acenaphthene	20,000	100,000	ND		937,000	ND		231	ND		4,440,000
Acenaphthylene	100,000	100,000	ND		937,000	ND		231	ND		4,440,000
Aniline	NE	100,000	ND		937,000	ND		231	ND		4,440,000
Anthracene	100,000	100,000	ND		937,000	ND		231	ND		4,440,000
Benzo(a)anthracene	1,000	1,000	ND		937,000	ND		231	ND		4,440,000
Benzo(a)pyrene	1,000	1,000	ND		937,000	ND		231	ND		4,440,000
Benzo(b)fluoranthene	1,000	1,000	ND		937,000	ND		231	ND		4,440,000
Benzo(g,h,i)perylene	100,000	100,000	ND		937,000	ND		231	ND		4,440,000
Benzo(k)fluoranthene	800	3,900	ND		937,000	ND		231	ND		4,440,000
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		937,000	*NA*		-	*NA*		-
Benzyl butyl phthalate	NE	NE	ND		937,000	ND		231	ND		4,440,000
Bis(2-chloroethoxy)methane	NE	NE	ND		937,000	ND		231	ND		4,440,000
Bis(2-chloroethyl)ether	NE	NE	ND		937,000	ND		231	ND		4,440,000
Bis(2-chloroisopropyl)ether	NE	NE	ND		937,000	ND		231	ND		4,440,000
Bis(2-ethylhexyl)phthalate	NE	50,000	**13,400,000**		937,000	188	J	231	**43,200,000**		4,440,000
Carbazole	NE	NE	*NA*		-	ND		231	ND		887
Chrysene	1,000	3,900	ND		937,000	ND		231	ND		4,440,000
Dibenzo(a,h)anthracene	330	330	ND		937,000	ND		231	ND		4,440,000
Dibenzofuran	NE	NE	ND		937,000	ND		231	ND		4,440,000
Diethyl phthalate	NE	100,000	ND		937,000	ND		231	ND		4,440,000
Dimethyl phthalate	NE	100,000	ND		937,000	ND		231	ND		4,440,000
Di-n-butyl phthalate	NE	100,000	ND		937,000	ND		231	ND		4,440,000
Di-n-octyl phthalate	NE	100,000	ND		937,000	ND		231	**3,010,000**	J	4,440,000
Fluoranthene	100,000	100,000	ND		937,000	ND		231	ND		4,440,000
Fluorene	30,000	100,000	ND		937,000	ND		231	ND		4,440,000
Hexachlorobenzene	NE	410	ND		937,000	ND		231	ND		4,440,000
Hexachlorobutadiene	NE	NE	ND		937,000	ND		231	ND		4,440,000
Hexachlorocyclopentadiene	NE	NE	ND		937,000	ND		231	ND		4,440,000
Hexachloroethane	NE	NE	ND		937,000	ND		231	ND		4,440,000
Indeno(1,2,3-cd)pyrene	500	500	ND		937,000	ND		231	ND		4,440,000
Isophorone	NE	100,000	ND		937,000	ND		231	ND		4,440,000
Naphthalene	12,000	100,000	ND		937,000	ND		231	ND		4,440,000
Nitrobenzene	NE	15,000	ND		937,000	ND		231	ND		4,440,000
N-Nitrosodimethylamine	NE	NE	ND		937,000	ND		231	ND		4,440,000
N-nitroso-di-n-propylamine	NE	NE	ND		937,000	ND		231	ND		4,440,000
N-Nitrosodiphenylamine	NE	NE	ND		937,000	ND		231	ND		4,440,000
Pentachlorophenol	800	6,700	ND		937,000	*NA*		-	*NA*		-
Phenanthrene	100,000	100,000	ND		937,000	ND		231	ND		4,440,000
Phenol	330	100,000	ND		937,000	*NA*		-	*NA*		-
Pyrene	100,000	100,000	ND		937,000	ND		231	ND		4,440,000
Pyridine	NE	NE	ND		937,000	ND		231	ND		4,440,000
Total TICs	NE	NE	187		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		SB-73 (13.5) (2012-02-16)			SB-74 (13) (2012-02-16)			SB-77A (Spill Site) (2012-02-01)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,2,4-Trichlorobenzene	NE	NE	ND		92,800	ND		222	ND		4,020
1,2-Dichlorobenzene	NE	NE	ND		92,800	ND		222	ND		4,020
1,3-Dichlorobenzene	NE	NE	ND		92,800	ND		222	ND		4,020
1,4-Dichlorobenzene	NE	NE	ND		92,800	ND		222	ND		4,020
2,4,5-Trichlorophenol	NE	100,000	*NA*		-	*NA*		-	ND		4,020
2,4,6-Trichlorophenol	NE	NE	*NA*		-	*NA*		-	ND		4,020
2,4-Dichlorophenol	NE	100,000	*NA*		-	*NA*		-	ND		4,020
2,4-Dimethylphenol	NE	NE	*NA*		-	*NA*		-	ND		4,020
2,4-Dinitrophenol	NE	100,000	*NA*		-	*NA*		-	ND		8,040
2,4-Dinitrotoluene	NE	NE	ND		92,800	ND		222	ND		4,020
2,6-Dinitrotoluene	NE	1,030	ND		92,800	ND		222	ND		4,020
2-Chloronaphthalene	NE	NE	ND		92,800	ND		222	ND		4,020
2-Chlorophenol	NE	100,000	*NA*		-	*NA*		-	ND		4,020
2-Methylnaphthalene	NE	410	ND		92,800	ND		222	ND		4,020
2-Methylphenol	330	100,000	*NA*		-	*NA*		-	ND		4,020
2-Nitroaniline	NE	NE	*NA*		-	*NA*		-	ND		4,020
2-Nitrophenol	NE	NE	*NA*		-	*NA*		-	ND		4,020
3- & 4-Methylphenols	330	100,000	*NA*		-	*NA*		-	ND		4,020
3,3'-Dichlorobenzidine	NE	NE	ND		92,800	ND		222	ND		8,040
3-Nitroaniline	NE	NE	ND		92,800	ND		222	ND		4,020
4,6-Dinitro-2-methylphenol	NE	NE	*NA*		-	*NA*		-	ND		4,020
4-Bromophenyl phenyl ether	NE	NE	ND		92,800	ND		222	ND		4,020
4-Chloro-3-methylphenol	NE	NE	ND		92,800	ND		222	ND		4,020
4-Chloroaniline	NE	NE	ND		92,800	ND		222	ND		4,020
4-Chlorophenyl phenyl ether	NE	NE	ND		92,800	ND		222	ND		4,020
4-Nitroaniline	NE	NE	ND		92,800	ND		222	ND		4,020
4-Nitrophenol	NE	NE	*NA*		-	*NA*		-	ND		4,020
Acenaphthene	20,000	100,000	ND		92,800	ND		222	ND		4,020
Acenaphthylene	100,000	100,000	ND		92,800	ND		222	ND		4,020
Aniline	NE	100,000	ND		92,800	ND		222	ND		4,020
Anthracene	100,000	100,000	ND		92,800	ND		222	ND		4,020
Benzo(a)anthracene	1,000	1,000	ND		92,800	ND		222	ND		4,020
Benzo(a)pyrene	1,000	1,000	ND		92,800	ND		222	ND		4,020
Benzo(b)fluoranthene	1,000	1,000	ND		92,800	ND		222	ND		4,020
Benzo(g,h,i)perylene	100,000	100,000	ND		92,800	ND		222	ND		4,020
Benzo(k)fluoranthene	800	3,900	ND		92,800	ND		222	ND		4,020
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	*NA*		-	*NA*		-	ND		4,020
Benzyl butyl phthalate	NE	NE	ND		92,800	ND		222	ND		4,020
Bis(2-chloroethoxy)methane	NE	NE	ND		92,800	ND		222	ND		4,020
Bis(2-chloroethyl)ether	NE	NE	ND		92,800	ND		222	ND		4,020
Bis(2-chloroisopropyl)ether	NE	NE	ND		92,800	ND		222	ND		4,020
Bis(2-ethylhexyl)phthalate	NE	50,000	**6,770,000**		928,000	458		222	ND		4,020
Carbazole	NE	NE	ND		928	ND		222	*NA*		-
Chrysene	1,000	3,900	ND		92,800	ND		222	ND		4,020
Dibenzo(a,h)anthracene	330	330	ND		92,800	ND		222	ND		4,020
Dibenzofuran	NE	NE	ND		92,800	ND		222	ND		4,020
Diethyl phthalate	NE	100,000	ND		92,800	ND		222	ND		4,020
Dimethyl phthalate	NE	100,000	ND		92,800	ND		222	ND		4,020
Di-n-butyl phthalate	NE	100,000	ND		92,800	ND		222	ND		4,020
Di-n-octyl phthalate	NE	100,000	ND		92,800	ND		222	ND		4,020
Fluoranthene	100,000	100,000	ND		92,800	ND		222	ND		4,020
Fluorene	30,000	100,000	ND		92,800	ND		222	ND		4,020
Hexachlorobenzene	NE	410	ND		92,800	ND		222	ND		4,020
Hexachlorobutadiene	NE	NE	ND		92,800	ND		222	ND		4,020
Hexachlorocyclopentadiene	NE	NE	ND		92,800	ND		222	ND		4,020
Hexachloroethane	NE	NE	ND		92,800	ND		222	ND		4,020
Indeno(1,2,3-cd)pyrene	500	500	ND		92,800	ND		222	ND		4,020
Isophorone	NE	100,000	ND		92,800	ND		222	ND		4,020
Naphthalene	12,000	100,000	ND		92,800	ND		222	ND		4,020
Nitrobenzene	NE	15,000	ND		92,800	ND		222	ND		4,020
N-Nitrosodimethylamine	NE	NE	ND		92,800	ND		222	ND		4,020
N-nitroso-di-n-propylamine	NE	NE	ND		92,800	ND		222	ND		4,020
N-Nitrosodiphenylamine	NE	NE	ND		92,800	ND		222	ND		4,020
Pentachlorophenol	800	6,700	*NA*		-	*NA*		-	ND		4,020
Phenanthrene	100,000	100,000	ND		92,800	ND		222	ND		4,020
Phenol	330	100,000	*NA*		-	*NA*		-	ND		4,020
Pyrene	100,000	100,000	ND		92,800	ND		222	ND		4,020
Pyridine	NE	NE	ND		92,800	ND		222	ND		4,020
Total TICs	NE	NE	*NA*		-	*NA*		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		SB-78A (Spill Site) (2012-02-01)			2SB-1 (15-20) (2013-08-01)			2SB-11 (10-15) (2013-08-01)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	NE	NE	ND		221	ND		288	ND		328
1,2-Dichlorobenzene	NE	NE	ND		221	ND		288	ND		328
1,3-Dichlorobenzene	NE	NE	ND		221	ND		288	ND		328
1,4-Dichlorobenzene	NE	NE	ND		221	ND		288	ND		328
2,4,5-Trichlorophenol	NE	100,000	ND		221	ND		288	ND		328
2,4,6-Trichlorophenol	NE	NE	ND		221	ND		288	ND		328
2,4-Dichlorophenol	NE	100,000	ND		221	ND		288	ND		328
2,4-Dimethylphenol	NE	NE	ND		221	ND		288	ND		328
2,4-Dinitrophenol	NE	100,000	ND		443	ND		577	ND	R	655
2,4-Dinitrotoluene	NE	NE	ND		221	ND		288	ND		328
2,6-Dinitrotoluene	NE	1,030	ND		221	ND		288	ND		328
2-Chloronaphthalene	NE	NE	ND		221	ND		288	ND		328
2-Chlorophenol	NE	100,000	ND		221	ND		288	ND		328
2-Methylnaphthalene	NE	410	ND		221	ND		288	ND		328
2-Methylphenol	330	100,000	ND		221	ND		288	ND		328
2-Nitroaniline	NE	NE	ND		221	ND		288	ND		328
2-Nitrophenol	NE	NE	ND		221	ND		288	ND		328
3- & 4-Methylphenols	330	100,000	ND		221	ND		288	ND		328
3,3'-Dichlorobenzidine	NE	NE	ND		442	ND		288	ND		328
3-Nitroaniline	NE	NE	ND		221	ND		288	ND		328
4,6-Dinitro-2-methylphenol	NE	NE	ND		221	ND		577	ND		655
4-Bromophenyl phenyl ether	NE	NE	ND		221	ND		288	ND		328
4-Chloro-3-methylphenol	NE	NE	ND		221	ND		288	ND		328
4-Chloroaniline	NE	NE	ND		221	ND		288	ND		328
4-Chlorophenyl phenyl ether	NE	NE	ND		221	ND		288	ND		328
4-Nitroaniline	NE	NE	ND		221	ND		288	ND		328
4-Nitrophenol	NE	NE	ND		221	ND		288	ND		328
Acenaphthene	20,000	100,000	ND		221	ND		288	ND		328
Acenaphthylene	100,000	100,000	ND		221	ND		288	ND		328
Aniline	NE	100,000	ND		221	ND		288	ND		328
Anthracene	100,000	100,000	ND		221	ND		288	ND		328
Benzo(a)anthracene	1,000	1,000	ND		221	ND		288	ND		328
Benzo(a)pyrene	1,000	1,000	ND		221	ND		288	ND		328
Benzo(b)fluoranthene	1,000	1,000	ND		221	ND		288	ND		328
Benzo(g,h,i)perylene	100,000	100,000	ND		221	ND		288	ND		328
Benzo(k)fluoranthene	800	3,900	ND		221	ND		288	ND		328
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		221	ND		288	ND		328
Benzyl butyl phthalate	NE	NE	ND		221	ND		288	ND		328
Bis(2-chloroethoxy)methane	NE	NE	ND		221	ND		288	ND		328
Bis(2-chloroethyl)ether	NE	NE	ND		221	ND		288	ND		328
Bis(2-chloroisopropyl)ether	NE	NE	ND		221	ND		288	ND		328
Bis(2-ethylhexyl)phthalate	NE	50,000	233		221	ND		288	ND		328
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		221	ND		288	ND		328
Dibenzo(a,h)anthracene	330	330	ND		221	ND		288	ND		328
Dibenzofuran	NE	NE	ND		221	ND		288	ND		328
Diethyl phthalate	NE	100,000	ND		221	ND		288	ND		328
Dimethyl phthalate	NE	100,000	ND		221	ND		288	ND		328
Di-n-butyl phthalate	NE	100,000	ND		221	ND		288	ND		328
Di-n-octyl phthalate	NE	100,000	ND		221	ND		288	ND		328
Fluoranthene	100,000	100,000	ND		221	ND		288	ND		328
Fluorene	30,000	100,000	ND		221	ND		288	ND		328
Hexachlorobenzene	NE	410	ND		221	ND		288	ND		328
Hexachlorobutadiene	NE	NE	ND		221	ND		288	ND		328
Hexachlorocyclopentadiene	NE	NE	ND		221	ND	R	288	ND		328
Hexachloroethane	NE	NE	ND		221	ND		288	ND		328
Indeno(1,2,3-cd)pyrene	500	500	ND		221	ND		288	ND		328
Isophorone	NE	100,000	149	J	221	ND		288	ND		328
Naphthalene	12,000	100,000	ND		221	ND		288	ND		328
Nitrobenzene	NE	15,000	ND		221	ND		288	ND		328
N-Nitrosodimethylamine	NE	NE	ND		221	ND		288	ND		328
N-nitroso-di-n-propylamine	NE	NE	ND		221	ND		288	ND		328
N-Nitrosodiphenylamine	NE	NE	ND		221	ND		288	ND		328
Pentachlorophenol	800	6,700	ND		221	ND		288	ND		328
Phenanthrene	100,000	100,000	ND		221	ND		288	ND		328
Phenol	330	100,000	ND		221	ND		288	ND		328
Pyrene	100,000	100,000	ND		221	ND		288	ND		328
Pyridine	NE	NE	ND		221	ND		288	ND	R	328
Total TICs	NE	NE	442		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		2SB-2 (0-5)			2SB-2 (10-15) (2013-08-01)			2SB-3 (10-15) (2013-08-01)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,2,4-Trichlorobenzene	NE	NE	ND		268	ND		305	ND		308
1,2-Dichlorobenzene	NE	NE	ND		268	ND		305	ND		308
1,3-Dichlorobenzene	NE	NE	ND		268	ND		305	ND		308
1,4-Dichlorobenzene	NE	NE	ND		268	ND		305	ND		308
2,4,5-Trichlorophenol	NE	100,000	ND		268	ND		305	ND		308
2,4,6-Trichlorophenol	NE	NE	ND		268	ND		305	ND		308
2,4-Dichlorophenol	NE	100,000	ND		268	ND		305	ND		308
2,4-Dimethylphenol	NE	NE	ND		268	ND		305	ND		308
2,4-Dinitrophenol	NE	100,000	ND	R	536	ND	R	611	ND	R	616
2,4-Dinitrotoluene	NE	NE	ND		268	ND		305	ND		308
2,6-Dinitrotoluene	NE	1,030	ND		268	ND		305	ND		308
2-Chloronaphthalene	NE	NE	ND		268	ND		305	ND		308
2-Chlorophenol	NE	100,000	ND		268	ND		305	ND		308
2-Methylnaphthalene	NE	410	ND		268	ND		305	ND		308
2-Methylphenol	330	100,000	ND		268	ND		305	ND		308
2-Nitroaniline	NE	NE	ND		268	ND		305	ND		308
2-Nitrophenol	NE	NE	ND		268	ND		305	ND		308
3- & 4-Methylphenols	330	100,000	ND		268	ND		305	ND		308
3,3'-Dichlorobenzidine	NE	NE	ND		268	ND		305	ND		308
3-Nitroaniline	NE	NE	ND		268	ND		305	ND		308
4,6-Dinitro-2-methylphenol	NE	NE	ND		536	ND		611	ND		616
4-Bromophenyl phenyl ether	NE	NE	ND		268	ND		305	ND		308
4-Chloro-3-methylphenol	NE	NE	ND		268	ND		305	ND		308
4-Chloroaniline	NE	NE	ND		268	ND		305	ND		308
4-Chlorophenyl phenyl ether	NE	NE	ND		268	ND		305	ND		308
4-Nitroaniline	NE	NE	ND		268	ND		305	ND		308
4-Nitrophenol	NE	NE	ND		268	ND		305	ND		308
Acenaphthene	20,000	100,000	ND		268	ND		305	ND		308
Acenaphthylene	100,000	100,000	ND		268	ND		305	ND		308
Aniline	NE	100,000	ND		268	ND		305	ND		308
Anthracene	100,000	100,000	ND		268	ND		305	ND		308
Benzo(a)anthracene	1,000	1,000	398		268	ND		305	ND		308
Benzo(a)pyrene	1,000	1,000	518		268	ND		305	ND		308
Benzo(b)fluoranthene	1,000	1,000	503		268	ND		305	ND		308
Benzo(g,h,i)perylene	100,000	100,000	399		268	ND		305	ND		308
Benzo(k)fluoranthene	800	3,900	359		268	ND		305	ND		308
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		268	ND		305	ND		308
Benzyl butyl phthalate	NE	NE	ND		268	ND		305	ND		308
Bis(2-chloroethoxy)methane	NE	NE	ND		268	ND		305	ND		308
Bis(2-chloroethyl)ether	NE	NE	ND		268	ND		305	ND		308
Bis(2-chloroisopropyl)ether	NE	NE	ND		268	ND		305	ND		308
Bis(2-ethylhexyl)phthalate	NE	50,000	ND		268	ND		305	ND		308
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	385		268	ND		305	ND		308
Dibenzo(a,h)anthracene	330	330	ND		268	ND		305	ND		308
Dibenzofuran	NE	NE	ND		268	ND		305	ND		308
Diethyl phthalate	NE	100,000	ND		268	ND		305	ND		308
Dimethyl phthalate	NE	100,000	ND		268	ND		305	ND		308
Di-n-butyl phthalate	NE	100,000	698		268	ND		305	ND		308
Di-n-octyl phthalate	NE	100,000	ND		268	ND		305	ND		308
Fluoranthene	100,000	100,000	589		268	ND		305	ND		308
Fluorene	30,000	100,000	ND		268	ND		305	ND		308
Hexachlorobenzene	NE	410	ND		268	ND		305	ND		308
Hexachlorobutadiene	NE	NE	ND		268	ND		305	ND		308
Hexachlorocyclopentadiene	NE	NE	ND		268	ND		305	ND		308
Hexachloroethane	NE	NE	ND		268	ND		305	ND		308
Indeno(1,2,3-cd)pyrene	500	500	354		268	ND		305	ND		308
Isophorone	NE	100,000	ND		268	ND		305	ND		308
Naphthalene	12,000	100,000	ND		268	ND		305	ND		308
Nitrobenzene	NE	15,000	ND		268	ND		305	ND		308
N-Nitrosodimethylamine	NE	NE	ND		268	ND		305	ND		308
N-nitroso-di-n-propylamine	NE	NE	ND		268	ND		305	ND		308
N-Nitrosodiphenylamine	NE	NE	ND		268	ND		305	ND		308
Pentachlorophenol	800	6,700	ND		268	ND		305	ND		308
Phenanthrene	100,000	100,000	424		268	ND		305	ND		308
Phenol	330	100,000	ND		268	ND		305	ND		308
Pyrene	100,000	100,000	625		268	ND		305	ND		308
Pyridine	NE	NE	ND	R	268	ND	R	305	ND	R	308
Total TICs	NE	NE	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		2SB-4 (0-5) (2013-08-01)			2SB-4 (10-15) (2013-08-01)			2SB-5 (10-15) (2013-08-01)		
	Unrestricted	Restricted-Residential	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	NE	NE	ND		263	ND		386	ND		313
1,2-Dichlorobenzene	NE	NE	ND		263	ND		386	ND		313
1,3-Dichlorobenzene	NE	NE	ND		263	ND		386	ND		313
1,4-Dichlorobenzene	NE	NE	ND		263	ND		386	ND		313
2,4,5-Trichlorophenol	NE	100,000	ND		263	ND		386	ND		313
2,4,6-Trichlorophenol	NE	NE	ND		263	ND		386	ND		313
2,4-Dichlorophenol	NE	100,000	ND		263	ND		386	ND		313
2,4-Dimethylphenol	NE	NE	ND		263	ND		386	ND		313
2,4-Dinitrophenol	NE	100,000	ND	R	526	ND	R	773	ND	R	626
2,4-Dinitrotoluene	NE	NE	ND		263	ND		386	ND		313
2,6-Dinitrotoluene	NE	1,030	ND		263	ND		386	ND		313
2-Chloronaphthalene	NE	NE	ND		263	ND		386	ND		313
2-Chlorophenol	NE	100,000	ND		263	ND		386	ND		313
2-Methylnaphthalene	NE	410	ND		263	ND		386	ND		313
2-Methylphenol	330	100,000	ND		263	ND		386	ND		313
2-Nitroaniline	NE	NE	ND		263	ND		386	ND		313
2-Nitrophenol	NE	NE	ND		263	ND		386	ND		313
3- & 4-Methylphenols	330	100,000	ND		263	ND		386	ND		313
3,3'-Dichlorobenzidine	NE	NE	ND		263	ND		386	ND		313
3-Nitroaniline	NE	NE	ND		263	ND		386	ND		313
4,6-Dinitro-2-methylphenol	NE	NE	ND		526	ND		773	ND		626
4-Bromophenyl phenyl ether	NE	NE	ND		263	ND		386	ND		313
4-Chloro-3-methylphenol	NE	NE	ND		263	ND		386	ND		313
4-Chloroaniline	NE	NE	ND		263	ND		386	ND		313
4-Chlorophenyl phenyl ether	NE	NE	ND		263	ND		386	ND		313
4-Nitroaniline	NE	NE	ND		263	ND		386	ND		313
4-Nitrophenol	NE	NE	ND		263	ND		386	ND		313
Acenaphthene	20,000	100,000	ND		263	ND		386	ND		313
Acenaphthylene	100,000	100,000	ND		263	ND		386	ND		313
Aniline	NE	100,000	ND		263	ND		386	ND		313
Anthracene	100,000	100,000	ND		263	ND		386	ND		313
Benzo(a)anthracene	1,000	1,000	153	J	263	ND		386	ND		313
Benzo(a)pyrene	1,000	1,000	165	J	263	ND		386	ND		313
Benzo(b)fluoranthene	1,000	1,000	ND		263	ND		386	ND		313
Benzo(g,h,i)perylene	100,000	100,000	127	J	263	ND		386	ND		313
Benzo(k)fluoranthene	800	3,900	ND		263	ND		386	ND		313
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		263	ND		386	ND		313
Benzyl butyl phthalate	NE	NE	ND		263	ND		386	ND		313
Bis(2-chloroethoxy)methane	NE	NE	ND		263	ND		386	ND		313
Bis(2-chloroethyl)ether	NE	NE	ND		263	ND		386	ND		313
Bis(2-chloroisopropyl)ether	NE	NE	ND		263	ND		386	ND		313
Bis(2-ethylhexyl)phthalate	NE	50,000	1,440		263	ND		386	ND		313
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	153	J	263	ND		386	ND		313
Dibenzo(a,h)anthracene	330	330	ND		263	ND		386	ND		313
Dibenzofuran	NE	NE	ND		263	ND		386	ND		313
Diethyl phthalate	NE	100,000	ND		263	ND		386	ND		313
Dimethyl phthalate	NE	100,000	259	J	263	ND		386	ND		313
Di-n-butyl phthalate	NE	100,000	ND		263	ND		386	ND		313
Di-n-octyl phthalate	NE	100,000	ND		263	ND		386	ND		313
Fluoranthene	100,000	100,000	188	J	263	ND		386	ND		313
Fluorene	30,000	100,000	ND		263	ND		386	ND		313
Hexachlorobenzene	NE	410	ND		263	ND		386	ND		313
Hexachlorobutadiene	NE	NE	ND		263	ND		386	ND		313
Hexachlorocyclopentadiene	NE	NE	ND		263	ND		386	ND		313
Hexachloroethane	NE	NE	ND		263	ND		386	ND		313
Indeno(1,2,3-cd)pyrene	500	500	ND		263	ND		386	ND		313
Isophorone	NE	100,000	ND		263	ND		386	ND		313
Naphthalene	12,000	100,000	ND		263	ND		386	ND		313
Nitrobenzene	NE	15,000	ND		263	ND		386	ND		313
N-Nitrosodimethylamine	NE	NE	ND		263	ND		386	ND		313
N-nitroso-di-n-propylamine	NE	NE	ND		263	ND		386	ND		313
N-Nitrosodiphenylamine	NE	NE	ND		263	ND		386	ND		313
Pentachlorophenol	800	6,700	ND		263	ND		386	ND		313
Phenanthrene	100,000	100,000	ND		263	ND		386	ND		313
Phenol	330	100,000	ND		263	ND		386	ND		313
Pyrene	100,000	100,000	211	J	263	ND		386	ND		313
Pyridine	NE	NE	ND	R	263	ND	R	386	ND	R	313
Total TICs	NE	NE	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		2SB-5A (2013-08-01)			2SB-6 (10-15) (2013-08-01)			2SB-7 (10-15) (2013-08-01)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,2,4-Trichlorobenzene	NE	NE	ND		301	ND		342	ND		309
1,2-Dichlorobenzene	NE	NE	ND		301	ND		342	ND		309
1,3-Dichlorobenzene	NE	NE	ND		301	ND		342	ND		309
1,4-Dichlorobenzene	NE	NE	ND		301	ND		342	ND		309
2,4,5-Trichlorophenol	NE	100,000	ND		301	ND		342	ND		309
2,4,6-Trichlorophenol	NE	NE	ND		301	ND		342	ND		309
2,4-Dichlorophenol	NE	100,000	ND		301	ND		342	ND		309
2,4-Dimethylphenol	NE	NE	ND		301	ND		342	ND		309
2,4-Dinitrophenol	NE	100,000	ND	R	602	ND	R	684	ND	R	617
2,4-Dinitrotoluene	NE	NE	ND		301	ND		342	ND		309
2,6-Dinitrotoluene	NE	1,030	ND		301	ND		342	ND		309
2-Chloronaphthalene	NE	NE	ND		301	ND		342	ND		309
2-Chlorophenol	NE	100,000	ND		301	ND		342	ND		309
2-Methylnaphthalene	NE	410	ND		301	ND		342	ND		309
2-Methylphenol	330	100,000	ND		301	ND		342	ND		309
2-Nitroaniline	NE	NE	ND		301	ND		342	ND		309
2-Nitrophenol	NE	NE	ND		301	ND		342	ND		309
3- & 4-Methylphenols	330	100,000	ND		301	ND		342	ND		309
3,3'-Dichlorobenzidine	NE	NE	ND		301	ND		342	ND		309
3-Nitroaniline	NE	NE	ND		301	ND		342	ND		309
4,6-Dinitro-2-methylphenol	NE	NE	ND		602	ND		684	ND		617
4-Bromophenyl phenyl ether	NE	NE	ND		301	ND		342	ND		309
4-Chloro-3-methylphenol	NE	NE	ND		301	ND		342	ND		309
4-Chloroaniline	NE	NE	ND		301	ND		342	ND		309
4-Chlorophenyl phenyl ether	NE	NE	ND		301	ND		342	ND		309
4-Nitroaniline	NE	NE	ND		301	ND		342	ND		309
4-Nitrophenol	NE	NE	ND		301	ND		342	ND		309
Acenaphthene	20,000	100,000	ND		301	ND		342	ND		309
Acenaphthylene	100,000	100,000	ND		301	ND		342	ND		309
Aniline	NE	100,000	ND		301	ND		342	ND		309
Anthracene	100,000	100,000	ND		301	ND		342	ND		309
Benzo(a)anthracene	1,000	1,000	ND		301	ND		342	ND		309
Benzo(a)pyrene	1,000	1,000	ND		301	ND		342	ND		309
Benzo(b)fluoranthene	1,000	1,000	ND		301	ND		342	ND		309
Benzo(g,h,i)perylene	100,000	100,000	ND		301	ND		342	ND		309
Benzo(k)fluoranthene	800	3,900	ND		301	ND		342	ND		309
Benzoic acid			*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	NE	ND		301	ND		342	ND		309
Benzyl butyl phthalate	NE	NE	ND		301	ND		342	ND		309
Bis(2-chloroethoxy)methane	NE	NE	ND		301	ND		342	ND		309
Bis(2-chloroethyl)ether	NE	NE	ND		301	ND		342	ND		309
Bis(2-chloroisopropyl)ether	NE	NE	ND		301	ND		342	ND		309
Bis(2-ethylhexyl)phthalate	NE	50,000	ND		301	ND		342	ND		309
Carbazole	NE	NE	*NA*		-	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		301	ND		342	ND		309
Dibenzo(a,h)anthracene	330	330	ND		301	ND		342	ND		309
Dibenzofuran	NE	NE	ND		301	ND		342	ND		309
Diethyl phthalate	NE	100,000	ND		301	ND		342	ND		309
Dimethyl phthalate	NE	100,000	ND		301	ND		342	ND		309
Di-n-butyl phthalate	NE	100,000	ND		301	ND		342	ND		309
Di-n-octyl phthalate	NE	100,000	ND		301	ND		342	ND		309
Fluoranthene	100,000	100,000	ND		301	ND		342	ND		309
Fluorene	30,000	100,000	ND		301	ND		342	ND		309
Hexachlorobenzene	NE	410	ND		301	ND		342	ND		309
Hexachlorobutadiene	NE	NE	ND		301	ND		342	ND		309
Hexachlorocyclopentadiene	NE	NE	ND		301	ND		342	ND		309
Hexachloroethane	NE	NE	ND		301	ND		342	ND		309
Indeno(1,2,3-cd)pyrene	500	500	ND		301	ND		342	ND		309
Isophorone	NE	100,000	ND		301	ND		342	ND		309
Naphthalene	12,000	100,000	ND		301	ND		342	ND		309
Nitrobenzene	NE	15,000	ND		301	ND		342	ND		309
N-Nitrosodimethylamine	NE	NE	ND		301	ND		342	ND		309
N-nitroso-di-n-propylamine	NE	NE	ND		301	ND		342	ND		309
N-Nitrosodiphenylamine	NE	NE	ND		301	ND		342	ND		309
Pentachlorophenol	800	6,700	ND		301	ND		342	ND		309
Phenanthrene	100,000	100,000	ND		301	ND		342	ND		309
Phenol	330	100,000	ND		301	ND		342	ND		309
Pyrene	100,000	100,000	ND		301	ND		342	ND		309
Pyridine	NE	NE	ND	R	301	ND	R	342	ND	R	309
Total TICs	NE	NE	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 5: Soil - SVOCs

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		2SB-8 (10-15) (2013-08-01)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*
1,2,4-Trichlorobenzene	NE	NE	ND		307
1,2-Dichlorobenzene	NE	NE	ND		307
1,3-Dichlorobenzene	NE	NE	ND		307
1,4-Dichlorobenzene	NE	NE	ND		307
2,4,5-Trichlorophenol	NE	100,000	ND		307
2,4,6-Trichlorophenol	NE	NE	ND		307
2,4-Dichlorophenol	NE	100,000	ND		307
2,4-Dimethylphenol	NE	NE	ND		307
2,4-Dinitrophenol	NE	100,000	ND	R	615
2,4-Dinitrotoluene	NE	NE	ND		307
2,6-Dinitrotoluene	NE	1,030	ND		307
2-Chloronaphthalene	NE	NE	ND		307
2-Chlorophenol	NE	100,000	ND		307
2-Methylnaphthalene	NE	410	ND		307
2-Methylphenol	330	100,000	ND		307
2-Nitroaniline	NE	NE	ND		307
2-Nitrophenol	NE	NE	ND		307
3- & 4-Methylphenols	330	100,000	ND		307
3,3'-Dichlorobenzidine	NE	NE	ND		307
3-Nitroaniline	NE	NE	ND		307
4,6-Dinitro-2-methylphenol	NE	NE	ND		615
4-Bromophenyl phenyl ether	NE	NE	ND		307
4-Chloro-3-methylphenol	NE	NE	ND		307
4-Chloroaniline	NE	NE	ND		307
4-Chlorophenyl phenyl ether	NE	NE	ND		307
4-Nitroaniline	NE	NE	ND		307
4-Nitrophenol	NE	NE	ND		307
Acenaphthene	20,000	100,000	ND		307
Acenaphthylene	100,000	100,000	ND		307
Aniline	NE	100,000	ND		307
Anthracene	100,000	100,000	ND		307
Benzo(a)anthracene	1,000	1,000	ND		307
Benzo(a)pyrene	1,000	1,000	ND		307
Benzo(b)fluoranthene	1,000	1,000	ND		307
Benzo(g,h,i)perylene	100,000	100,000	ND		307
Benzo(k)fluoranthene	800	3,900	ND		307
Benzoic acid			*NA*		-
Benzyl alcohol	NE	NE	ND		307
Benzyl butyl phthalate	NE	NE	ND		307
Bis(2-chloroethoxy)methane	NE	NE	ND		307
Bis(2-chloroethyl)ether	NE	NE	ND		307
Bis(2-chloroisopropyl)ether	NE	NE	ND		307
Bis(2-ethylhexyl)phthalate	NE	50,000	ND		307
Carbazole	NE	NE	*NA*		-
Chrysene	1,000	3,900	ND		307
Dibenzo(a,h)anthracene	330	330	ND		307
Dibenzofuran	NE	NE	ND		307
Diethyl phthalate	NE	100,000	ND		307
Dimethyl phthalate	NE	100,000	ND		307
Di-n-butyl phthalate	NE	100,000	ND		307
Di-n-octyl phthalate	NE	100,000	ND		307
Fluoranthene	100,000	100,000	ND		307
Fluorene	30,000	100,000	ND		307
Hexachlorobenzene	NE	410	ND		307
Hexachlorobutadiene	NE	NE	ND		307
Hexachlorocyclopentadiene	NE	NE	ND		307
Hexachloroethane	NE	NE	ND		307
Indeno(1,2,3-cd)pyrene	500	500	ND		307
Isophorone	NE	100,000	ND		307
Naphthalene	12,000	100,000	ND		307
Nitrobenzene	NE	15,000	ND		307
N-Nitrosodimethylamine	NE	NE	ND		307
N-nitroso-di-n-propylamine	NE	NE	ND		307
N-Nitrosodiphenylamine	NE	NE	ND		307
Pentachlorophenol	800	6,700	ND		307
Phenanthrene	100,000	100,000	ND		307
Phenol	330	100,000	ND		307
Pyrene	100,000	100,000	ND		307
Pyridine	NE	NE	ND	R	307
Total TICs	NE	NE	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 6: Soil - SVOCs (Spill Site)

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Elevated Concentrations in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		MW-17 (14) (2012-02-15) (Spill Site)			MW-18 (15) (2012-02-15) (Spill Site)			MW-19 (10-12) (2012-02-02) (Spill Site)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,2,4-Trichlorobenzene	NE	NE	ND		215	ND		198	ND		4,030
1,2-Dichlorobenzene	NE	NE	ND		215	ND		198	ND		4,030
1,3-Dichlorobenzene	NE	NE	ND		215	ND		198	ND		4,030
1,4-Dichlorobenzene	NE	NE	ND		215	ND		198	ND		4,030
2,4,5-Trichlorophenol	NE	100,000	*NA*		-	*NA*		-	ND		4,030
2,4,6-Trichlorophenol	NE	NE	*NA*		-	*NA*		-	ND		4,030
2,4-Dichlorophenol	NE	100,000	*NA*		-	*NA*		-	ND		4,030
2,4-Dimethylphenol	NE	NE	*NA*		-	*NA*		-	ND		4,030
2,4-Dinitrophenol	NE	100,000	*NA*		-	*NA*		-	ND		8,060
2,4-Dinitrotoluene	NE	NE	ND		215	ND		198	ND		4,030
2,6-Dinitrotoluene	NE	1,030	ND		215	ND		198	ND		4,030
2-Chloronaphthalene	NE	NE	ND		215	ND		198	ND		4,030
2-Chlorophenol	NE	100,000	*NA*		-	*NA*		-	ND		4,030
2-Methylnaphthalene	NE	410	ND		215	ND		198	**13,200**		4,030
2-Methylphenol	330	100,000	*NA*		-	*NA*		-	ND		4,030
2-Nitroaniline	NE	NE	*NA*		-	*NA*		-	ND		4,030
2-Nitrophenol	NE	NE	*NA*		-	*NA*		-	ND		4,030
3- & 4-Methylphenols	330	100,000	*NA*		-	*NA*		-	ND		4,030
3,3'-Dichlorobenzidine	NE	NE	ND		215	ND		198	ND		4,030
3-Nitroaniline	NE	NE	ND		215	ND		198	ND		4,030
4,6-Dinitro-2-methylphenol	NE	NE	*NA*		-	*NA*		-	ND		8,060
4-Bromophenyl phenyl ether	NE	NE	ND		215	ND		198	ND		4,030
4-Chloro-3-methylphenol	NE	NE	ND		215	ND		198	ND		4,030
4-Chloroaniline	NE	NE	ND		215	ND		198	ND		4,030
4-Chlorophenyl phenyl ether	NE	NE	ND		215	ND		198	ND		4,030
4-Nitroaniline	NE	NE	ND		215	ND		198	ND		4,030
4-Nitrophenol	NE	NE	*NA*		-	*NA*		-	ND		4,030
Acenaphthene	20,000	100,000	ND		215	ND		198	ND		4,030
Acenaphthylene	100,000	100,000	ND		215	ND		198	ND		4,030
Aniline	NE	100,000	ND		215	ND		198	ND		4,030
Anthracene	100,000	100,000	ND		215	ND		198	1,400	J	4,030
Benzo(a)anthracene	1,000	1,000	ND		215	ND		198	ND		4,030
Benzo(a)pyrene	1,000	1,000	ND		215	53	J	198	ND		4,030
Benzo(b)fluoranthene	1,000	1,000	ND		215	ND		198	ND		4,030
Benzo(g,h,i)perylene	100,000	100,000	ND		215	ND		198	ND		4,030
Benzo(k)fluoranthene	800	3,900	ND		215	ND		198	ND		4,030
Benzyl alcohol	NE	NE	*NA*		-	*NA*		-	ND		4,030
Benzyl butyl phthalate	NE	NE	ND		215	ND		198	10,100		4,030
Bis(2-chloroethoxy)methane	NE	NE	ND		215	ND		198	ND		4,030
Bis(2-chloroethyl)ether	NE	NE	ND		215	ND		198	ND		4,030
Bis(2-chloroisopropyl)ether	NE	NE	ND		215	ND		198	ND		4,030
Bis(2-ethylhexyl)phthalate	NE	50,000	1,400		215	440		198	4,330		4,030
Carbazole	NE	NE	ND		215	ND		198	*NA*		-
Chrysene	1,000	3,900	ND		215	ND		198	ND		4,030
Dibenzo(a,h)anthracene	330	330	ND		215	ND		198	ND		4,030
Dibenzofuran	NE	NE	ND		215	ND		198	ND		4,030
Diethyl phthalate	NE	100,000	ND		215	ND		198	ND		4,030
Dimethyl phthalate	NE	100,000	ND		215	ND		198	ND		4,030
Di-n-butyl phthalate	NE	100,000	ND		215	ND		198	ND		4,030
Di-n-octyl phthalate	NE	100,000	350		215	ND		198	ND		4,030
Fluoranthene	100,000	100,000	ND		215	ND		198	ND		4,030
Fluorene	30,000	100,000	ND		215	ND		198	1,850	J	4,030
Hexachlorobenzene	NE	410	ND		215	ND		198	ND		4,030
Hexachlorobutadiene	NE	NE	ND		215	ND		198	ND		4,030
Hexachlorocyclopentadiene	NE	NE	ND		215	ND		198	ND		4,030
Hexachloroethane	NE	NE	ND		215	ND		198	ND		4,030
Indeno(1,2,3-cd)pyrene	500	500	ND		215	ND		198	ND		4,030
Isophorone	NE	100,000	ND		215	ND		198	ND		4,030
Naphthalene	12,000	100,000	ND		215	ND		198	2,000	J	4,030
Nitrobenzene	NE	15,000	ND		215	ND		198	ND		4,030
N-Nitrosodimethylamine	NE	NE	ND		215	ND		198	ND		4,030
N-nitroso-di-n-propylamine	NE	NE	ND		215	ND		198	ND		4,030
N-Nitrosodiphenylamine	NE	NE	ND		215	ND		198	ND		4,030
Pentachlorophenol	800	6,700	*NA*		-	*NA*		-	ND		4,030
Phenanthrene	100,000	100,000	ND		215	ND		198	6,650		4,030
Phenol	330	100,000	*NA*		-	*NA*		-	ND		4,030
Pyrene	100,000	100,000	ND		215	76.4	J	198	3,360	J	4,030
Pyridine	NE	NE	ND		215	ND		198	ND		4,030
Total TICs	NE	NE	*NA*		-	*NA*		-	5,360		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 6: Soil - SVOCs (Spill Site)

Data in µg/kg
Guidance: NYSDEC 375-6 and CP-51
Elevated Concentrations in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs (USEPA Method 8270)	Soil Cleanup Objectives (SCOs)		SB-77A (2012-02-01) (Spill Site)			SB-78A (2012-02-01) (Spill Site)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,2,4-Trichlorobenzene	NE	NE	ND		4,020	ND		221
1,2-Dichlorobenzene	NE	NE	ND		4,020	ND		221
1,3-Dichlorobenzene	NE	NE	ND		4,020	ND		221
1,4-Dichlorobenzene	NE	NE	ND		4,020	ND		221
2,4,5-Trichlorophenol	NE	100,000	ND		4,020	ND		221
2,4,6-Trichlorophenol	NE	NE	ND		4,020	ND		221
2,4-Dichlorophenol	NE	100,000	ND		4,020	ND		221
2,4-Dimethylphenol	NE	NE	ND		4,020	ND		221
2,4-Dinitrophenol	NE	100,000	ND		8,040	ND		443
2,4-Dinitrotoluene	NE	NE	ND		4,020	ND		221
2,6-Dinitrotoluene	NE	1,030	ND		4,020	ND		221
2-Chloronaphthalene	NE	NE	ND		4,020	ND		221
2-Chlorophenol	NE	100,000	ND		4,020	ND		221
2-Methylnaphthalene	NE	410	ND		4,020	ND		221
2-Methylphenol	330	100,000	ND		4,020	ND		221
2-Nitroaniline	NE	NE	ND		4,020	ND		221
2-Nitrophenol	NE	NE	ND		4,020	ND		221
3- & 4-Methylphenols	330	100,000	ND		4,020	ND		221
3,3'-Dichlorobenzidine	NE	NE	ND		8,040	ND		442
3-Nitroaniline	NE	NE	ND		4,020	ND		221
4,6-Dinitro-2-methylphenol	NE	NE	ND		4,020	ND		221
4-Bromophenyl phenyl ether	NE	NE	ND		4,020	ND		221
4-Chloro-3-methylphenol	NE	NE	ND		4,020	ND		221
4-Chloroaniline	NE	NE	ND		4,020	ND		221
4-Chlorophenyl phenyl ether	NE	NE	ND		4,020	ND		221
4-Nitroaniline	NE	NE	ND		4,020	ND		221
4-Nitrophenol	NE	NE	ND		4,020	ND		221
Acenaphthene	20,000	100,000	ND		4,020	ND		221
Acenaphthylene	100,000	100,000	ND		4,020	ND		221
Aniline	NE	100,000	ND		4,020	ND		221
Anthracene	100,000	100,000	ND		4,020	ND		221
Benzo(a)anthracene	1,000	1,000	ND		4,020	ND		221
Benzo(a)pyrene	1,000	1,000	ND		4,020	ND		221
Benzo(b)fluoranthene	1,000	1,000	ND		4,020	ND		221
Benzo(g,h,i)perylene	100,000	100,000	ND		4,020	ND		221
Benzo(k)fluoranthene	800	3,900	ND		4,020	ND		221
Benzyl alcohol	NE	NE	ND		4,020	ND		221
Benzyl butyl phthalate	NE	NE	ND		4,020	ND		221
Bis(2-chloroethoxy)methane	NE	NE	ND		4,020	ND		221
Bis(2-chloroethyl)ether	NE	NE	ND		4,020	ND		221
Bis(2-chloroisopropyl)ether	NE	NE	ND		4,020	ND		221
Bis(2-ethylhexyl)phthalate	NE	50,000	ND		4,020	233		221
Carbazole	NE	NE	*NA*		-	*NA*		-
Chrysene	1,000	3,900	ND		4,020	ND		221
Dibenzo(a,h)anthracene	330	330	ND		4,020	ND		221
Dibenzofuran	NE	NE	ND		4,020	ND		221
Diethyl phthalate	NE	100,000	ND		4,020	ND		221
Dimethyl phthalate	NE	100,000	ND		4,020	ND		221
Di-n-butyl phthalate	NE	100,000	ND		4,020	ND		221
Di-n-octyl phthalate	NE	100,000	ND		4,020	ND		221
Fluoranthene	100,000	100,000	ND		4,020	ND		221
Fluorene	30,000	100,000	ND		4,020	ND		221
Hexachlorobenzene	NE	410	ND		4,020	ND		221
Hexachlorobutadiene	NE	NE	ND		4,020	ND		221
Hexachlorocyclopentadiene	NE	NE	ND		4,020	ND		221
Hexachloroethane	NE	NE	ND		4,020	ND		221
Indeno(1,2,3-cd)pyrene	500	500	ND		4,020	ND		221
Isophorone	NE	100,000	ND		4,020	149	J	221
Naphthalene	12,000	100,000	ND		4,020	ND		221
Nitrobenzene	NE	15,000	ND		4,020	ND		221
N-Nitrosodimethylamine	NE	NE	ND		4,020	ND		221
N-nitroso-di-n-propylamine	NE	NE	ND		4,020	ND		221
N-Nitrosodiphenylamine	NE	NE	ND		4,020	ND		221
Pentachlorophenol	800	6,700	ND		4,020	ND		221
Phenanthrene	100,000	100,000	ND		4,020	ND		221
Phenol	330	100,000	ND		4,020	ND		221
Pyrene	100,000	100,000	ND		4,020	ND		221
Pyridine	NE	NE	ND		4,020	ND		221
Total TICs	NE	NE	ND		-	442		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 7: Soil - Metals

Data in mg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

TAL Metals (Various Methods)	Soil Cleanup Objectives (SCOs)		MW-23 (2012-07-25)			MW-24 (2012-07-25)			MW-25 (2012-07-25)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
Aluminum	NE	NE	3,850		2.45	4,210		2.5	4,700		2.23
Antimony	NE	NE	ND		0.611	ND		0.626	ND		0.557
Arsenic	13	16	ND		1.22	ND		1.25	ND		1.11
Barium	350	400	51.9		0.611	44.4		0.626	41.5		0.557
Beryllium	7.2	72	ND		0.122	ND		0.125	ND		0.111
Cadmium	2.5	4.3	ND		0.611	ND		0.626	ND		0.557
Calcium	NE	NE	3,280		2.45	1,450		2.5	2,910		2.23
Chromium	30	180	11		0.611	12		0.626	13.9		0.557
Cobalt	NE	30	8.58		0.611	9.46		0.626	14.8		0.557
Copper	50	270	15		0.611	16.9		0.626	31.7		0.557
Iron	NE	2,700	**12,100**		1.22	**18,000**		1.25	**22,600**		1.11
Lead	63	400	4.95	B	0.367	4.29	B	0.376	5.78	B	0.334
Magnesium	NE	NE	3,910		2.45	2,300		2.5	4,120		2.23
Manganese	1,600	2,000	660		1.22	467		1.25	321		1.11
Mercury	0.18	0.81	ND		0.122	ND		0.125	ND		0.111
Nickel	30	310	15.8		0.611	18.4		0.626	25.5		0.557
Potassium	NE	NE	1,160		12.2	1,280		12.5	1,230		11.1
Selenium	3.9	180	ND		0.611	ND		0.626	ND		0.557
Silver	2	180	ND		0.611	ND		0.626	ND		0.557
Sodium	NE	NE	416		12.2	214		12.5	283		11.1
Thallium	NE	NE	ND		0.611	ND		0.626	ND		0.557
Vanadium	NE	100	14.2		0.611	15.9		0.626	22.5		0.557
Zinc	109	10,000	42.9		0.611	39.6		0.626	**137**		0.557

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 7: Soil - Metals

Data in mg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

TAL Metals (Various Methods)	Soil Cleanup Objectives (SCOs)		MW-26 (2012-09-24)			MW-27 (2012-09-24)			MW-28 (2013-01-15)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
Aluminum	NE	NE	13,900		2.61	3,200		2.56	11,500	B	2.46
Antimony	NE	NE	ND		0.653	ND		0.64	ND		0.614
Arsenic	13	16	2.69		1.31	ND		1.28	1.67		1.23
Barium	350	400	106		0.653	31		0.64	125		0.614
Beryllium	7.2	72	1.17		0.131	0.34		0.128	ND		0.123
Cadmium	2.5	4.3	ND		0.653	ND		0.64	ND		0.614
Calcium	NE	NE	2,900		2.61	1,640		2.56	2,190		6.14
Chromium	30	180	**35.2**		0.653	11.1		0.64	30.2		0.614
Cobalt	NE	30	21.5		0.653	6.21		0.64	18.8		0.614
Copper	50	270	34.3		0.653	12.6		0.64	25.2		0.614
Iron	NE	2,700	**29,400**		1.31	**10,200**		1.28	**25,800**		2.46
Lead	63	400	8.24		0.392	2.55		0.384	5.82		0.368
Magnesium	NE	NE	10,400		2.61	2,430		2.56	7,590		6.14
Manganese	1,600	2,000	1,290		1.31	294		1.28	604		1.23
Mercury	0.18	0.81	ND		0.131	ND		0.128	ND		0.123
Nickel	30	310	**43.3**		0.653	12.4		0.64	**32.4**		0.614
Potassium	NE	NE	5,400		13.1	1,170		12.8	4,580		12.3
Selenium	3.9	180	**6.51**		0.653	2.1		0.64	4.34		0.614
Silver	2	180	ND		0.653	ND		0.64	ND		0.614
Sodium	NE	NE	561		13.1	109		12.8	262	B	12.3
Thallium	NE	NE	ND		0.653	ND		0.64	ND		0.614
Vanadium	NE	100	51.6		0.653	15.2		0.64	41		0.614
Zinc	109	10,000	103		0.653	29.5		0.64	**118**		0.614

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 7: Soil - Metals

Data in mg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

TAL Metals (Various Methods)	Soil Cleanup Objectives (SCOs)		MW-29 (2013-01-08)			SB-60 (2012-02-01)			SB-60B (6-8) (2012-02-13)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
Aluminum	NE	NE	6,000		2.36	4,530		2.12	8,330		2.19
Antimony	NE	NE	ND		0.589	ND		0.531	2.69		0.548
Arsenic	13	16	ND		1.18	ND		1.06	2.95		1.1
Barium	350	400	53.9		0.589	55		0.531	62.7		0.548
Beryllium	7.2	72	ND		0.118	ND		0.106	ND		0.11
Cadmium	2.5	4.3	ND		0.589	ND		0.531	ND		0.548
Calcium	NE	NE	2,970		5.89	1,330	B	2.12	1,270		2.19
Chromium	30	180	16.8		0.589	13.1		0.531	25		0.548
Cobalt	NE	30	10.6		0.589	8.4		0.531	14.3		0.548
Copper	50	270	19.3		0.589	15.3		0.531	30.1		0.548
Iron	NE	2,700	**15,300**		2.36	**13,400**	B	1.06	**24,200**		1.1
Lead	63	400	3.91		0.354	6.47		0.319	11.1		0.329
Magnesium	NE	NE	4,480		5.89	2,860	B	2.12	4,260		2.19
Manganese	1,600	2,000	363		1.18	733		1.06	406		1.1
Mercury	0.18	0.81	ND		0.118	ND		0.106	ND		0.11
Nickel	30	310	19.5		0.589	16		0.531	**46.9**		0.548
Potassium	NE	NE	2,130		11.8	1,430		10.6	1,270		11
Selenium	3.9	180	2.53		0.589	1.63		0.531	2.5		0.548
Silver	2	180	ND		0.589	ND		0.531	ND		0.548
Sodium	NE	NE	217		11.8	103	B	10.6	83		11
Thallium	NE	NE	ND		0.589	ND		0.531	ND		0.548
Vanadium	NE	100	22.4		0.589	19.4		0.531	30.5		0.548
Zinc	109	10,000	53.7		0.589	40.9		0.531	77		0.548

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 7: Soil - Metals

Data in mg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

TAL Metals (Various Methods)	Soil Cleanup Objectives (SCOs)		SB-61 (2012-02-01)			SB-63 (14) (2012-02-10)			SB-67 (2012-02-02)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
Aluminum	NE	NE	2,640		2.26	9,200		2.48	3,680		2.12
Antimony	NE	NE	ND		0.564	6.81		0.619	ND		0.53
Arsenic	13	16	ND		1.13	1.74		1.24	ND		1.06
Barium	350	400	32.9		0.564	93.5		0.619	37.5		0.53
Beryllium	7.2	72	ND		0.113	ND		0.124	ND		0.106
Cadmium	2.5	4.3	ND		0.564	1.57		0.619	ND		0.53
Calcium	NE	NE	2,510	B	2.26	1,260		2.48	1,340	B	2.12
Chromium	30	180	23.9		0.564	37.8		0.619	11.3		0.53
Cobalt	NE	30	8.93		0.564	16.3		0.619	9.44		0.53
Copper	50	270	**67.7**		0.564	43.3		0.619	23.4		0.53
Iron	NE	2,700	**37,800**	B	1.13	**24,400**		1.24	**13,900**	B	1.06
Lead	63	400	10.8		0.339	19.3		0.371	**111**		0.318
Magnesium	NE	NE	1,280	B	2.26	5,050		2.48	2,260	B	2.12
Manganese	1,600	2,000	670		1.13	828		1.24	416		1.06
Mercury	0.18	0.81	ND		0.113	ND		0.124	ND		0.106
Nickel	30	310	25.9		0.564	**36.7**		0.619	16.2		0.53
Potassium	NE	NE	674		11.3	2,890		12.4	1,150		10.6
Selenium	3.9	180	1.99		0.564	**4.89**		0.619	1.17		0.53
Silver	2	180	ND		0.564	ND		0.619	ND		0.53
Sodium	NE	NE	54.3	B	11.3	149		12.4	61.9	B	10.6
Thallium	NE	NE	ND		0.564	2.35		0.619	ND		0.53
Vanadium	NE	100	43.5		0.564	39		0.619	19.1		0.53
Zinc	109	10,000	57.5		0.564	100		0.619	45		0.53

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 7: Soil - Metals

Data in mg/kg
Guidance: NYSDEC 375-6 and CP-51
Concentrations above UU-SCOs in **Bold**

Ecosystems Strategies, Inc.

ESI File: SB09110

TAL Metals (Various Methods)	Soil Cleanup Objectives (SCOs)		SB-69 (2012-02-01)			SB-71 (14) (2012-02-10)		
	Unrestricted	Restricted-Residential	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
Aluminum	NE	NE	6,450		201	3,890		2.25
Antimony	NE	NE	ND		201	4.98		0.562
Arsenic	13	16	ND		201	ND		1.12
Barium	350	400	79.2		201	45.7		0.562
Beryllium	7.2	72	ND		201	ND		0.112
Cadmium	2.5	4.3	ND		201	0.944		0.562
Calcium	NE	NE	1,080	B	201	13,800		2.25
Chromium	30	180	31.6		201	13.1		0.562
Cobalt	NE	30	9.13		402	7.73		0.562
Copper	50	270	25.9		201	16.2		0.562
Iron	NE	2,700	**24,100**	B	201	**11,700**		1.12
Lead	63	400	7.73		201	7.51		0.337
Magnesium	NE	NE	3,730	B	201	10,200		2.25
Manganese	1,600	2,000	308		201	556		1.12
Mercury	0.18	0.81	ND		201	ND		0.112
Nickel	30	310	23		201	15.2		0.562
Potassium	NE	NE	2,640		201	1,760		11.2
Selenium	3.9	180	1.26		201	**4.12**		0.562
Silver	2	180	ND		402	ND		0.562
Sodium	NE	NE	377	B	201	127		11.2
Thallium	NE	NE	ND		201	ND		0.562
Vanadium	NE	100	32.4		201	18		0.562
Zinc	109	10,000	86.5		201	42.2		0.562

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank E = Estimated concentration

Table 8: Soil - Detected VOC TICs

Data in µg/kg

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs - TICs (USEPA Method 8260)	MW-19 (10-12) (2012-02-02)		MW-26 (2012-09-24)		SB-60 (2012-02-01)		SB-60B (6-8) (2012-02-13)	
	Result	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*
(methylpropyl) cyclohexane isomer	2,400	JN			390			
1,2,4,5-Tetramethylbenzene	1,800							
1-methyl-3-propyl benzene							2,500	JN
2,6-dimethyl octane			34	JN				
2-Butanone								
2-ethyl-1-hexanol								
3-methyl nonane			32	JN				
3-methyl thiophene								
4-Methyl-2-pentanone								
Acetone	11	B-Dil			180	B	2,400	B
Butanal								
butyl cyclohexane			37	JN	390	JN		
butyl octanol isomer								
decahydro methyl naphthalene isomers			84	JN				
dihydro dimethyl indene isomers	8,700	JN						
dimethyl Cyclohexane isomer			66	JN				
dimethyl Heptane isomer	2,800	JN						
dimethyl nonane isomer								
dimethyl octane isomer					590	JN		
dimethyl Octene isomer							2,200	JN
dimethyl Undecane isomer								
Dodecane								
Ethyl Dimethyl Benzene isomer								
ethyl Hexanal isomer								
ethyl Hexanol isomer								
Ethyl Methyl Benzene isomer								
Heptene isomer								
Hexane								
Methyl (methylethyl) benzene isomer							2,900	JN
Methyl (methylpentyl) Cyclopropane isomer								
methyl Cycloheptane isomer								
Methyl Cyclohexane	880				82	JN		
methyl Decane isomer					620	JN		
methyl Heptane isomers								
methyl Heptanol isomer								
methyl hexanol isomer								
methyl Nonane isomer	2,200	JN						
methyl Nonane isomers					1,500	JN		
methyl Octane isomer	2,300	JN						
methyl octane isomers					1,000	JN		
methyl pentyl cyclohexane isomer								
methyl-(methylpropyl) cyclopentane			40	JN				
Nonane	3,200	JN						
Octane	2,400	JN						
p-Diethylbenzene								
Pentanal								
Pentyl Cyclohexane			60	JN				
pentyl Cyclohexane isomer								
p-Ethyltoluene								
propyl cyclohexane			50	JN			3,400	JN
propyl cyclohexanes					920	JN		
tetramethyl Benzene isomers							4,200	JN
tetramethyl cyclohexane isomer			52	JN				
Trimethyl Benzene isomers							7,600	JN
Trimethyl cyclohexane isomer	2,200	JN						
undecane							2,000	JN
undecanes								
Total TICs	28,891		455		5,672		27,200	

Flags: JN = Possible analyte or class of analyte tentatively identified at an estimated concentration.
B and B-dil = Detected in laboratory blank

IHWD ID: 224136

Table 8: Soil - Detected VOC TICs

Data in µg/kg

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs - TICs (USEPA Method 8260)	SB-61 (2012-02-01)		SB-63 (14) (2012-02-10)		SB-65 (8-12) (2012-04-19)		SB-67 (2012-02-02)	
	Result	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*
(methylpropyl) cyclohexane isomer								
1,2,4,5-Tetramethylbenzene	110						9.7	
1-methyl-3-propyl benzene								
2,6-dimethyl octane								
2-Butanone			110				59	
2-ethyl-1-hexanol								
3-methyl nonane								
3-methyl thiophene							34	JN
4-Methyl-2-pentanone							25	
Acetone			270	B			94	B
Butanal			52	JN				
butyl cyclohexane	320	JN					32	JN
butyl octanol isomer							20	JN
decahydro methyl naphthalene isomers								
dihydro dimethyl indene isomers								
dimethyl Cyclohexane isomer								
dimethyl Heptane isomer								
dimethyl nonane isomer	370	JN						
dimethyl octane isomer	170	JN						
dimethyl Octene isomer	160	JN						
dimethyl Undecane isomer								
Dodecane							31	JN
Ethyl Dimethyl Benzene isomer			12	JN				
ethyl Hexanal isomer			310	JN			24	JN
ethyl Hexanol isomer			360	JN				
Ethyl Methyl Benzene isomer					75	JN		
Heptene isomer			12	JN				
Hexane								
Methyl (methylethyl) benzene isomer								
Methyl (methylpentyl) Cyclopropane isomer			25	JN				
methyl Cycloheptane isomer								
Methyl Cyclohexane								
methyl Decane isomer	180	JN					21	JN
methyl Heptane isomers					120	JN		
methyl Heptanol isomer			15	JN				
methyl hexanol isomer								
methyl Nonane isomer	200	JN					19	JN
methyl Nonane isomers								
methyl Octane isomer					59	JN	23	JN
methyl octane isomers	150	JN			110	JN		
methyl pentyl cyclohexane isomer								
methyl-(methylpropyl) cyclopentane								
Nonane								
Octane					110	JN		
p-Diethylbenzene	160							
Pentanal			29	JN				
Pentyl Cyclohexane								
pentyl Cyclohexane isomer	210	JN						
p-Ethyltoluene							29	
propyl cyclohexane	170	JN					130	JN
propyl cyclohexanes								
tetramethyl Benzene isomers								
tetramethyl cyclohexane isomer								
Trimethyl Benzene isomers								
Trimethyl cyclohexane isomer								
undecane								
undecanes							130	JN
Total TICs	2,200		1,195		474		680.7	

Flags: JN = Possible analyte or class of analyte tentatively identified at an estimated concentration.
B and B-dil = Detected in laboratory blank

Table 8: Soil - Detected VOC TICs

Data in µg/kg

Ecosystems Strategies, Inc.

ESI File: SB09110

VOCs - TICs (USEPA Method 8260)	SB-69 (2012-02-01)		SB-71 (14) (2012-02-10)	
	Result	*Flag*	*Result*	*Flag*
(methylpropyl) cyclohexane isomer				
1,2,4,5-Tetramethylbenzene				
1-methyl-3-propyl benzene				
2,6-dimethyl octane				
2-Butanone			5.8	
2-ethyl-1-hexanol			740	JN
3-methyl nonane				
3-methyl thiophene				
4-Methyl-2-pentanone				
Acetone	33		85	B
Butanal				
butyl cyclohexane				
butyl octanol isomer				
decahydro methyl naphthalene isomers				
dihydro dimethyl indene isomers				
dimethyl Cyclohexane isomer				
dimethyl Heptane isomer				
dimethyl nonane isomer				
dimethyl octane isomer				
dimethyl Octene isomer				
dimethyl Undecane isomer				
Dodecane				
Ethyl Dimethyl Benzene isomer				
ethyl Hexanal isomer				
ethyl Hexanol isomer				
Ethyl Methyl Benzene isomer				
Heptene isomer				
Hexane			12	JN
Methyl (methylethyl) benzene isomer				
Methyl (methylpentyl) Cyclopropane isomer				
methyl Cycloheptane isomer			33	JN
Methyl Cyclohexane				
methyl Decane isomer				
methyl Heptane isomers				
methyl Heptanol isomer				
methyl hexanol isomer			61	JN
methyl Nonane isomer				
methyl Nonane isomers				
methyl Octane isomer				
methyl octane isomers				
methyl pentyl cyclohexane isomer				
methyl-(methylpropyl) cyclopentane				
Nonane				
Octane				
p-Diethylbenzene				
Pentanal				
Pentyl Cyclohexane				
pentyl Cyclohexane isomer				
p-Ethyltoluene				
propyl cyclohexane				
propyl cyclohexanes				
tetramethyl Benzene isomers				
tetramethyl cyclohexane isomer				
Trimethyl Benzene isomers				
Trimethyl cyclohexane isomer			31	JN
undecane				
undecanes				
Total TICs	33		967.8	

Flags: JN = Possible analyte or class of analyte tentatively identified at an estimated concentration.
B and B-dil = Detected in laboratory blank

Table 9: Soil - Detected SVOC TICs

Data in µg/kg

Ecosystems Strategies, Inc.

ESI File: SB09110

SVOCs - TICs (USEPA Method 8270)	MW-19 (10-12) (2012-02-02)		MW-22 (12-14) (2012-02-16)		MW-42 (8-10) (2014-12-10)		SB-60B (6-8) (2012-02-13)		SB-60B (8-10) (2012-02-13)		SB-60B (10-12) (2012-02-13)	
	Result	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*
Benenedicarboxylic acid			159	JN			256	JN	211	JN	280	JN
Didecyl phthalate			199	JN					140	JN		
Didodecyl phthalate											140	JN
dimethyl-Naphthalene isomer	1,170	JN										
ethyl Hexanol isomer												
Hexahydropyridine isomer												
Hexanedioic acid											140	JN
methyl Anthracene isomer	1,370	JN										
methyl Dibenzothiophene	1,450	JN										
nitro Thiophene isomer												
Octacosane	1,370	JN										
unknown hydrocarbon					188							
Total TICs	5,360		358		188		256		351		560	

SVOCs - TICs (USEPA Method 8270)	SB-60B (10-12) (2012-02-13)		SB-63 (2012-02-01)		SB-63 (14) (2012-02-10)		SB-68 (2012-02-01)		SB-71 (14) (2012-02-10)		SB-78A (spill site) (2012-02-01)	
	Result	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*
Benenedicarboxylic acid	280	JN					168	JN			221	JN
Didecyl phthalate									187	JN		
Didodecyl phthalate	140	JN			866	JN	168	JN				
dimethyl-Naphthalene isomer												
ethyl Hexanol isomer					2,150	JN						
Hexahydropyridine isomer					413	JN						
Hexanedioic acid	140	JN			15,200	JN					221	JN
methyl Anthracene isomer												
methyl Dibenzothiophene												
nitro Thiophene isomer			954	JN								
Octacosane												
unknown hydrocarbon												
Total TICs	560		954		18,629		336		187		442	

Flags: JN = Possible analyte or class of analyte tentatively identified at an estimated concentration.

IHWD ID: 224136

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	MW-3 (2010-02-15)			MW-3 (2012-04-25)			MW-3 (2013-11-25)			MW-4 (2014-04-03)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	ND		5	ND		5	*NA*		-	*NA*		-
1,1,1-Trichloroethane	5	2.4	J	5	ND		5	ND		5	ND		0.5
1,1,2,2-Tetrachloroethane	5	ND		5	ND		5	*NA*		-	ND		0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		5	ND		5	ND		5	ND		0.5
1,1,2-Trichloroethane	1	ND		5	ND		5	ND		5	ND		0.5
1,1-Dichloroethane	5	ND		5	ND		5	ND		5	ND		0.5
1,1-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		0.5
1,1-Dichloropropylene	5	ND		5	ND		5	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	5	ND		5	ND		10	*NA*		-	ND		0.5
1,2,3-Trichloropropane	0.04	ND		5	ND		5	*NA*		-	*NA*		-
1,2,4-Trichlorobenzene	5	ND		5	ND		10	ND		10	ND		0.5
1,2,4-Trimethylbenzene	5	1.1	J	5	ND		5	ND		5	*NA*		-
1,2-Dibromo-3-chloropropane	0.04	ND		5	ND		10	ND		10	ND		0.5
1,2-Dibromoethane	5	ND		5	ND		5	ND		5	ND		0.5
1,2-Dichlorobenzene	3	ND		5	ND		5	*NA*		-	ND		0.5
1,2-Dichloroethane	0.6	ND		5	ND		5	ND		5	ND		0.5
1,2-Dichloropropane	1	ND		5	ND		5	ND		5	ND		0.5
1,3,5-Trimethylbenzene	5	ND		5	ND		5	ND		5	*NA*		-
1,3-Dichlorobenzene	3	ND		5	ND		5	*NA*		-	ND		0.5
1,3-Dichloropropane	5	ND		5	ND		5	*NA*		-	*NA*		-
1,4-Dichlorobenzene	3	ND		5	ND		5	*NA*		-	ND		0.5
1,4-Dioxane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2,2-Dichloropropane	5	ND		5	ND		5	*NA*		-	*NA*		-
2-Butanone	50	*NA*		-	ND		10	ND		10	5.4		0.5
2-Chlorotoluene	5	ND		5	ND		5	*NA*		-	*NA*		-
2-Hexanone	50	*NA*		-	*NA*		-	ND		5	ND		0.5
4-Chlorotoluene	5	ND		5	ND		5	*NA*		-	*NA*		-
4-Methyl-2-pentanone	NE	*NA*		-	*NA*		-	ND		10	5.5	E	0.5
Acetone	50	*NA*		-	3.1	J,B	10	ND		10	18	E,B	2
Benzene	1	ND		5	ND		5	ND		5	ND		0.5
Bromobenzene	5	ND		5	ND		5	*NA*		-	*NA*		-
Bromochloromethane	5	ND		5	ND		5	*NA*		-	ND		0.5
Bromodichloromethane	50	ND		5	ND		5	ND		5	ND		0.5
Bromoform	50	ND		5	ND		5	ND		5	ND		0.5
Bromomethane	5	ND		5	ND		5	ND		5	ND		0.5
Carbon disulfide	NE	*NA*		-	*NA*		-	ND		5	ND		0.5
Carbon tetrachloride	5	ND		5	ND		5	ND		5	ND		0.5
Chlorobenzene	5	ND		5	ND		5	ND		5	0.41	J	0.5
Chloroethane	5	ND		5	ND		5	ND		5	ND		0.5
Chloroform	7	ND		5	ND		5	ND		5	ND		0.5
Chloromethane	5	ND		5	ND		5	ND		5	ND		0.5
cis-1,2-Dichloroethylene	5	ND		5	ND		5	ND		5	1.2		0.5
cis-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		5	ND		0.5
Cyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	ND		0.5
Dibromochloromethane	5	ND		5	ND		5	ND		5	ND		0.5
Dibromomethane	5	ND		5	ND		5	*NA*		-	*NA*		-
Dichlorodifluoromethane	5	ND		5	ND		5	ND		5	ND		0.5
Ethyl Benzene	5	ND		5	ND		5	ND		5	ND		0.5
Hexachlorobutadiene	0.5	ND		5	ND		5	*NA*		-	*NA*		-
Isopropylbenzene	5	ND		5	ND		5	ND		5	ND		0.5
Methyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	ND		0.5
Methyl tert-butyl ether (MTBE)	10	ND		5	ND		5	ND		5	0.45	J	0.5
Methylcyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	ND		0.5
Methylene chloride	5	3.4	B,J	10	**6.5**	J,B	10	ND		10	ND		2
Naphthalene	10	ND		5	ND		10	ND		10	*NA*		-
n-Butylbenzene	5	ND		5	ND		5	ND		5	*NA*		-
n-Propylbenzene	5	ND		5	ND		5	ND		5	*NA*		-
o-Xylene	5	ND		5	ND		5	ND		5	ND		0.5
p- & m- Xylenes	5	ND		10	ND		10	ND		10	ND		1
p-Isopropyltoluene	5	ND		5	ND		5	*NA*		-	*NA*		-
sec-Butylbenzene	5	ND		5	ND		5	ND		5	*NA*		-
Styrene	5	ND		5	ND		5	ND		5	ND		0.5
tert-Butylbenzene	5	ND		5	ND		5	ND		5	*NA*		-
Tetrachloroethylene	5	ND		5	ND		5	ND		5	ND		0.5
Toluene	5	ND		5	ND		5	ND		5	0.37	J	0.5
trans-1,2-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		0.5
trans-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		5	ND		0.5
Trichloroethylene	5	ND		5	ND		5	ND		5	0.42	J	0.5
Trichlorofluoromethane	5	ND		5	ND		5	ND		5	ND		0.5
Vinyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Vinyl chloride	2	ND		5	ND		5	ND		5	ND		0.5
Xylenes, Total	5	*NA*		-	ND		15	ND		15	ND		1.5
Total TICs	NE	*NA*		-	*NA*			ND		-	78.6		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

IHWD ID: 224136

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	MW-7 (2014-10-9)			MW-8 (2014-04-03)			MW-8 (2014-10-08)			MW-10 (2010-02-15)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	*NA*		-	*NA*		-	*NA*		-	ND		5
1,1,1-Trichloroethane	5	ND		0.5	ND		120	ND		0.5	ND		5
1,1,2,2-Tetrachloroethane	5	ND		0.5	ND		120	ND		0.5	ND		5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		0.5	ND		120	ND		0.5	ND		5
1,1,2-Trichloroethane	1	ND		0.5	ND		120	ND		0.5	ND		5
1,1-Dichloroethane	5	0.23	J	0.5	ND		120	**9.3**		0.5	ND		5
1,1-Dichloroethylene	5	ND		0.5	ND		120	**27**		0.5	ND		5
1,1-Dichloropropylene	5	*NA*		-	*NA*		-	*NA*		-	ND		5
1,2,3-Trichlorobenzene	5	ND		0.5	ND		120	ND		0.5	ND		5
1,2,3-Trichloropropane	0.04	*NA*		-	*NA*		-	*NA*		-	ND		5
1,2,4-Trichlorobenzene	5	ND		0.5	ND		120	ND		0.5	ND		5
1,2,4-Trimethylbenzene	5	*NA*		-	*NA*		-	*NA*		-	ND		5
1,2-Dibromo-3-chloropropane	0.04	ND		0.5	ND		120	ND		0.5	ND		5
1,2-Dibromoethane	5	ND		0.5	ND		120	ND		0.5	ND		5
1,2-Dichlorobenzene	3	ND		0.5	ND		120	ND		0.5	ND		5
1,2-Dichloroethane	0.6	ND		0.5	ND		120	ND		0.5	ND		5
1,2-Dichloropropane	1	ND		0.5	ND		120	ND		0.5	ND		5
1,3,5-Trimethylbenzene	5	*NA*		-	*NA*		-	*NA*		-	ND		5
1,3-Dichlorobenzene	3	ND		0.5	ND		120	ND		0.5	ND		5
1,3-Dichloropropane	5	*NA*		-	*NA*		-	*NA*		-	ND		5
1,4-Dichlorobenzene	3	ND		0.5	ND		120	ND		0.5	*NA*		-
1,4-Dioxane	NE	*NA*		-	*NA*		-	*NA*		-	ND		5
2,2-Dichloropropane	5	*NA*		-	*NA*		-	*NA*		-	ND		5
2-Butanone	50	ND		0.5	ND		120	ND		0.5	ND		5
2-Chlorotoluene	5	*NA*		-	*NA*		-	*NA*		-	ND		5
2-Hexanone	50	ND		0.5	ND		120	ND		0.5	ND		5
4-Chlorotoluene	5	*NA*		-	*NA*		-	*NA*		-	ND		5
4-Methyl-2-pentanone	NE	ND		0.5	ND		120	ND		0.5	*NA*		-
Acetone	50	ND		2	**420**	J, B	500	ND		2	ND		5
Benzene	1	ND		0.5	ND		120	ND		0.5	ND		5
Bromobenzene	5	*NA*		-	*NA*		-	*NA*		-	ND		5
Bromochloromethane	5	ND		0.5	ND		120	ND		0.5	ND		5
Bromodichloromethane	50	ND		0.5	ND		120	ND		0.5	ND		5
Bromoform	50	ND		0.5	ND		120	ND		0.5	ND		5
Bromomethane	5	ND		0.5	ND		120	ND		0.5	*NA*		-
Carbon disulfide	NE	ND		0.5	ND		120	ND		0.5	ND		5
Carbon tetrachloride	5	ND		0.5	ND		120	ND		0.5	ND		5
Chlorobenzene	5	ND		0.5	ND		120	ND		0.5	ND		5
Chloroethane	5	1.9		0.5	ND		120	ND		0.5	ND		5
Chloroform	7	ND		0.5	ND		120	ND		0.5	ND		5
Chloromethane	5	ND		0.5	ND		120	ND		0.5	ND		5
cis-1,2-Dichloroethylene	5	3.4		0.5	**2,300**		120	**2,700**		1,000	ND		5
cis-1,3-Dichloropropylene	0.4	ND		0.5	ND		120	ND		0.5	ND		5
Cyclohexane	NE	ND		0.5	ND		120	ND		0.5	*NA*		-
Dibromochloromethane	5	ND		0.5	ND		120	ND		0.5	ND		5
Dibromomethane	5	*NA*		-	*NA*		-	*NA*		-	ND		5
Dichlorodifluoromethane	5	ND		0.5	ND		120	ND		0.5	ND		5
Ethyl Benzene	5	ND		0.5	ND		120	ND		0.5	ND		5
Hexachlorobutadiene	0.5	ND		0.5	*NA*		-	ND		0.5	ND		5
Isopropylbenzene	5	*NA*		-	ND		120	*NA*		-	ND		5
Methyl acetate	NE	ND		0.5	ND		120	ND		0.5	*NA*		-
Methyl tert-butyl ether (MTBE)	10	ND		0.5	ND		120	ND		0.5	ND		5
Methylcyclohexane	NE	ND		0.5	ND		120	ND		0.5	*NA*		-
Methylene chloride	5	ND		2	ND		500	ND		2	3.4	B,J	10
Naphthalene	10	*NA*		-	*NA*		-	*NA*		-	ND		5
n-Butylbenzene	5	*NA*		-	*NA*		-	*NA*		-	ND		5
n-Propylbenzene	5	*NA*		-	*NA*		-	*NA*		-	ND		5
o-Xylene	5	ND		0.5	ND		120	0.28	J	0.5	ND		5
p- & m- Xylenes	5	ND		1	ND		250	ND		1	ND		10
p-Isopropyltoluene	5	*NA*		-	*NA*		-	*NA*		-	ND		5
sec-Butylbenzene	5	*NA*		-	*NA*		-	*NA*		-	ND		5
Styrene	5	ND		0.5	ND		120	ND		0.5	ND		5
tert-Butylbenzene	5	*NA*		-	*NA*		-	*NA*		-	ND		5
Tetrachloroethylene	5	ND		0.5	ND		120	**22**		0.5	ND		5
Toluene	5	ND		0.5	ND		120	1.3		0.5	ND		5
trans-1,2-Dichloroethylene	5	ND		0.5	ND		120	**39**		0.5	ND		5
trans-1,3-Dichloropropylene	0.4	ND		0.5	ND		120	ND		0.5	ND		5
Trichloroethylene	5	ND		0.5	**33,000**		1,000	**21,000**		1,000	1.1	J	5
Trichlorofluoromethane	5	ND		0.5	ND		120	ND		0.5	ND		5
Vinyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	ND		5
Vinyl chloride	2	0.98		0.5	ND		120	**16**		0.5	ND		5
Xylenes, Total	5	ND		1.5	ND		380	ND		1.5	*NA*		-
Total TICs	NE	*NA*		-	ND		-	*NA*		-	ND		5

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	MW-10 (2012-03-16)			MW-12 (2010-02-15)			MW-12 (2014-10-09)			MW-13 (2012-02-15)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	ND		5	ND		5	*NA*		-	ND		5
1,1,1-Trichloroethane	5	ND		5	ND		5	ND		0.5	ND		5
1,1,2,2-Tetrachloroethane	5	ND		5	ND		5	ND		0.5	ND		5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		5	ND		5	ND		0.5	ND		5
1,1,2-Trichloroethane	1	ND		5	ND		5	ND		0.5	ND		5
1,1-Dichloroethane	5	ND		5	ND		5	ND		0.5	ND		5
1,1-Dichloroethylene	5	ND		5	ND		5	ND		0.5	ND		5
1,1-Dichloropropylene	5	ND		5	ND		5	*NA*		-	ND		5
1,2,3-Trichlorobenzene	5	ND		10	ND		5	ND		0.5	ND		5
1,2,3-Trichloropropane	0.04	ND		5	ND		5	*NA*		-	ND		5
1,2,4-Trichlorobenzene	5	ND		10	ND		5	ND		0.5	ND		5
1,2,4-Trimethylbenzene	5	ND		5	ND		5	*NA*		-	ND		5
1,2-Dibromo-3-chloropropane	0.04	ND		10	ND		5	ND		0.5	ND		5
1,2-Dibromoethane	5	ND		5	ND		5	ND		0.5	ND		5
1,2-Dichlorobenzene	3	ND		5	ND		5	ND		0.5	ND		5
1,2-Dichloroethane	0.6	ND		5	ND		5	ND		0.5	ND		5
1,2-Dichloropropane	1	ND		5	ND		5	ND		0.5	ND		5
1,3,5-Trimethylbenzene	5	ND		5	ND		5	*NA*		-	ND		5
1,3-Dichlorobenzene	3	ND		5	ND		5	ND		0.5	ND		5
1,3-Dichloropropane	5	ND		5	ND		5	*NA*		-	ND		5
1,4-Dichlorobenzene	3	ND		5	*NA*		-	ND		0.5	*NA*		-
1,4-Dioxane	NE	ND		5	ND		5	*NA*		-	ND		5
2,2-Dichloropropane	5	ND		5	ND		5	*NA*		-	ND		5
2-Butanone	50	ND		10	ND		5	ND		0.5	ND		5
2-Chlorotoluene	5	ND		5	ND		5	*NA*		-	ND		5
2-Hexanone	50	*NA*		-	ND		5	ND		0.5	ND		5
4-Chlorotoluene	5	ND		5	ND		5	*NA*		-	ND		5
4-Methyl-2-pentanone	NE	*NA*		-	*NA*		-	ND		0.5	*NA*		-
Acetone	50	ND		10	ND		5	ND		2	ND		5
Benzene	1	ND		5	ND		5	ND		0.5	ND		5
Bromobenzene	5	ND		5	ND		5	*NA*		-	ND		5
Bromochloromethane	5	ND		5	ND		5	ND		0.5	ND		5
Bromodichloromethane	50	ND		5	ND		5	ND		0.5	ND		5
Bromoform	50	ND		5	ND		5	ND		0.5	ND		5
Bromomethane	5	ND		5	*NA*		-	ND		0.5	*NA*		-
Carbon disulfide	NE	*NA*		-	ND		5	ND		0.5	ND		5
Carbon tetrachloride	5	ND		5	ND		5	ND		0.5	ND		5
Chlorobenzene	5	ND		5	ND		5	ND		0.5	ND		5
Chloroethane	5	ND		5	ND		5	ND		0.5	ND		5
Chloroform	7	ND		5	ND		5	ND		0.5	ND		5
Chloromethane	5	ND		5	ND		5	ND		0.5	ND		5
cis-1,2-Dichloroethylene	5	ND		5	ND		5	**15**		0.5	ND		5
cis-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		0.5	ND		5
Cyclohexane	NE	*NA*		-	*NA*		-	ND		0.5	*NA*		-
Dibromochloromethane	5	ND		5	ND		5	ND		0.5	ND		5
Dibromomethane	5	ND		5	ND		5	*NA*		-	ND		5
Dichlorodifluoromethane	5	ND		5	ND		5	ND		0.5	ND		5
Ethyl Benzene	5	ND		5	ND		5	ND		0.5	ND		5
Hexachlorobutadiene	0.5	ND		5	ND		5	ND		0.5	ND		5
Isopropylbenzene	5	ND		5	ND		5	*NA*		-	ND		5
Methyl acetate	NE	*NA*		-	*NA*		-	ND		0.5	*NA*		-
Methyl tert-butyl ether (MTBE)	10	ND		5	ND		5	ND		0.5	ND		5
Methylcyclohexane	NE	*NA*		-	*NA*		-	ND		0.5	*NA*		-
Methylene chloride	5	**5.6**	J,B	10	3	B,J	10	ND		2	3.9	B,J	10
Naphthalene	10	ND		5	ND		5	*NA*		-	ND		5
n-Butylbenzene	5	ND		5	ND		5	*NA*		-	ND		6
n-Propylbenzene	5	ND		5	ND		5	*NA*		-	ND		7
o-Xylene	5	ND		5	ND		5	ND		0.5	ND		5
p- & m- Xylenes	5	ND		10	ND		10	ND		1	ND		10
p-Isopropyltoluene	5	ND		5	ND		5	*NA*		-	ND		5
sec-Butylbenzene	5	ND		5	ND		5	*NA*		-	ND		5
Styrene	5	ND		5	ND		5	ND		0.5	ND		5
tert-Butylbenzene	5	ND		5	ND		5	*NA*		-	ND		5
Tetrachloroethylene	5	ND		5	ND		5	ND		0.5	ND		5
Toluene	5	ND		5	ND		5	ND		0.5	ND		5
trans-1,2-Dichloroethylene	5	ND		5	ND		5	1		0.5	ND		5
trans-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		0.5	ND		5
Trichloroethylene	5	0.86	J	5	2.5	J	5	**7.1**	B	0.5	**15**		5
Trichlorofluoromethane	5	ND		5	ND		5	ND		0.5	ND		5
Vinyl acetate	NE	ND		5	ND		5	*NA*		-	ND		5
Vinyl chloride	2	ND		5	ND		5	**8.5**		0.5	ND		5
Xylenes, Total	5	ND		15	*NA*		-	ND		1.5	*NA*		-
Total TICs	NE	ND		5	ND		5	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	MW-13 (2012-04-25)			MW-13 (2014-10-09)			MW-14 (2012-02-15)			MW-14 (2014-10-09)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	ND		5	*NA*		-	ND		5	*NA*		-
1,1,1-Trichloroethane	5	ND		5	ND		0.5	ND		5	ND		0.5
1,1,2,2-Tetrachloroethane	5	ND		5	ND		0.5	ND		5	ND		0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		5	ND		0.5	ND		5	ND		0.5
1,1,2-Trichloroethane	1	ND		5	ND		0.5	ND		5	ND		0.5
1,1-Dichloroethane	5	ND		5	ND		0.5	ND		5	ND		0.5
1,1-Dichloroethylene	5	ND		5	ND		0.5	ND		5	ND		0.5
1,1-Dichloropropylene	5	ND		5	*NA*		-	ND		5	*NA*		-
1,2,3-Trichlorobenzene	5	ND		10	ND		0.5	ND		5	ND		0.5
1,2,3-Trichloropropane	0.04	ND		5	*NA*		-	ND		5	*NA*		-
1,2,4-Trichlorobenzene	5	ND		10	ND		0.5	ND		5	ND		0.5
1,2,4-Trimethylbenzene	5	ND		5	*NA*		-	ND		5	*NA*		-
1,2-Dibromo-3-chloropropane	0.04	ND		10	ND		0.5	ND		5	ND		0.5
1,2-Dibromoethane	5	ND		5	ND		0.5	ND		5	ND		0.5
1,2-Dichlorobenzene	3	ND		5	ND		0.5	ND		5	ND		0.5
1,2-Dichloroethane	0.6	ND		5	ND		0.5	ND		5	ND		0.5
1,2-Dichloropropane	1	ND		5	ND		0.5	ND		5	ND		0.5
1,3,5-Trimethylbenzene	5	ND		5	*NA*		-	ND		5	*NA*		-
1,3-Dichlorobenzene	3	ND		5	ND		0.5	ND		5	ND		0.5
1,3-Dichloropropane	5	ND		5	*NA*		-	ND		5	*NA*		-
1,4-Dichlorobenzene	3	ND		5	ND		0.5	*NA*		-	ND		0.5
1,4-Dioxane	NE	ND		5	*NA*		-	ND		5	*NA*		-
2,2-Dichloropropane	5	ND		5	*NA*		-	ND		5	*NA*		-
2-Butanone	50	ND		10	ND		0.5	ND		5	ND		0.5
2-Chlorotoluene	5	ND		5	*NA*		-	ND		5	*NA*		-
2-Hexanone	50	*NA*		-	ND		0.5	ND		5	ND		0.5
4-Chlorotoluene	5	ND		5	*NA*		-	ND		5	*NA*		-
4-Methyl-2-pentanone	NE	*NA*		-	ND		0.5	*NA*		-	ND		0.5
Acetone	50	ND		10	ND		2	ND		5	ND		2
Benzene	1	ND		5	ND		0.5	ND		5	ND		0.5
Bromobenzene	5	ND		5	*NA*		-	ND		5	*NA*		-
Bromochloromethane	5	ND		5	ND		0.5	ND		5	ND		0.5
Bromodichloromethane	50	ND		5	ND		0.5	ND		5	ND		0.5
Bromoform	50	ND		5	ND		0.5	ND		5	ND		0.5
Bromomethane	5	ND		5	ND		0.5	*NA*		-	ND		0.5
Carbon disulfide	NE	*NA*		-	ND		0.5	ND		5	ND		0.5
Carbon tetrachloride	5	ND		5	ND		0.5	ND		5	ND		0.5
Chlorobenzene	5	ND		5	ND		0.5	ND		5	ND		0.5
Chloroethane	5	ND		5	ND		0.5	ND		5	ND		0.5
Chloroform	7	ND		5	ND		0.5	ND		5	ND		0.5
Chloromethane	5	ND		5	ND		0.5	ND		5	ND		0.5
cis-1,2-Dichloroethylene	5	ND		5	ND		0.5	ND		5	ND		0.5
cis-1,3-Dichloropropylene	0.4	ND		5	ND		0.5	ND		5	ND		0.5
Cyclohexane	NE	*NA*		-	ND		0.5	*NA*		-	ND		0.5
Dibromochloromethane	5	ND		5	ND		0.5	ND		5	ND		0.5
Dibromomethane	5	ND		5	*NA*		-	ND		5	*NA*		-
Dichlorodifluoromethane	5	ND		5	ND		0.5	ND		5	ND		0.5
Ethyl Benzene	5	ND		5	ND		0.5	ND		5	ND		0.5
Hexachlorobutadiene	0.5	ND		5	ND		0.5	ND		5	ND		0.5
Isopropylbenzene	5	ND		5	*NA*		-	ND		5	*NA*		-
Methyl acetate	NE	*NA*		-	ND		0.5	*NA*		-	ND		0.5
Methyl tert-butyl ether (MTBE)	10	ND		5	ND		0.5	ND		5	ND		0.5
Methylcyclohexane	NE	*NA*		-	ND		0.5	*NA*		-	ND		0.5
Methylene chloride	5	4.8	J,B	10	ND		2	3.6	B,J	10	ND		2
Naphthalene	10	ND		5	*NA*		-	ND		5	*NA*		-
n-Butylbenzene	5	ND		6	*NA*		-	ND		6	*NA*		-
n-Propylbenzene	5	ND		7	*NA*		-	ND		7	*NA*		-
o-Xylene	5	ND		5	ND		0.5	ND		5	ND		0.5
p- & m- Xylenes	5	ND		10	ND		1	ND		10	ND		1
p-Isopropyltoluene	5	ND		5	*NA*		-	ND		5	*NA*		-
sec-Butylbenzene	5	ND		5	*NA*		-	ND		5	*NA*		-
Styrene	5	ND		5	ND		0.5	ND		5	ND		0.5
tert-Butylbenzene	5	ND		5	*NA*		-	ND		5	*NA*		-
Tetrachloroethylene	5	ND		5	ND		0.5	ND		5	ND		0.5
Toluene	5	ND		5	ND		0.5	ND		5	ND		0.5
trans-1,2-Dichloroethylene	5	ND		5	ND		0.5	ND		5	ND		0.5
trans-1,3-Dichloropropylene	0.4	ND		5	ND		0.5	ND		5	ND		0.5
Trichloroethylene	5	ND		5	0.34	J, B	0.5	ND		5	0.27	J, B	0.5
Trichlorofluoromethane	5	ND		5	ND		0.5	ND		5	ND		0.5
Vinyl acetate	NE	ND		5	*NA*		-	ND		5	*NA*		-
Vinyl chloride	2	ND		5	ND		0.5	ND		5	ND		0.5
Xylenes, Total	5	ND		15	ND		1.5	*NA*		-	ND		1.5
Total TICs	NE	ND		-	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	MW-14A (2014-10-09)			MW-17 (2012-04-19)			MW-18 (2012-03-16)			MW-18 (2014-10-08)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	*NA*		-	*NA*			110		-	*NA*		-
1,1,1-Trichloroethane	5	ND		0.5	ND		5	ND		5	ND		0.5
1,1,2,2-Tetrachloroethane	5	ND		0.5	ND		5	ND		5	ND		0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		0.5	ND		5	ND		5	ND		0.5
1,1,2-Trichloroethane	1	ND		0.5	ND		5	ND		5	ND		0.5
1,1-Dichloroethane	5	ND		0.5	ND		5	ND		5	ND		0.5
1,1-Dichloroethylene	5	ND		0.5	ND		5	ND		5	ND		0.5
1,1-Dichloropropylene	5	*NA*		-	*NA*			110		-	*NA*		-
1,2,3-Trichlorobenzene	5	ND		0.5	ND		10	ND		10	ND		0.5
1,2,3-Trichloropropane	0.04	*NA*		-	*NA*			110		-	*NA*		-
1,2,4-Trichlorobenzene	5	ND		0.5	ND		10	ND		10	ND		0.5
1,2,4-Trimethylbenzene	5	*NA*		-	*NA*			110		-	*NA*		-
1,2-Dibromo-3-chloropropane	0.04	ND		0.5	ND		10	ND		10	ND		0.5
1,2-Dibromoethane	5	ND		0.5	ND		5	ND		5	ND		0.5
1,2-Dichlorobenzene	3	ND		0.5	ND		5	ND		5	ND		0.5
1,2-Dichloroethane	0.6	ND		0.5	ND		5	ND		5	ND		0.5
1,2-Dichloropropane	1	ND		0.5	ND		5	ND		5	ND		0.5
1,3,5-Trimethylbenzene	5	*NA*		-	*NA*			110		-	*NA*		-
1,3-Dichlorobenzene	3	ND		0.5	ND		5	ND		5	ND		0.5
1,3-Dichloropropane	5	*NA*		-	*NA*			110		-	*NA*		-
1,4-Dichlorobenzene	3	ND		0.5	ND		5	ND		5	ND		0.5
1,4-Dioxane	NE	*NA*		-	*NA*			110		-	*NA*		-
2,2-Dichloropropane	5	*NA*		-	*NA*			110		-	*NA*		-
2-Butanone	50	ND		0.5	ND		10	ND		10	ND		0.5
2-Chlorotoluene	5	*NA*		-	*NA*			110		-	*NA*		-
2-Hexanone	50	ND		0.5	*NA*		-	*NA*		-	ND		0.5
4-Chlorotoluene	5	*NA*		-	*NA*			110		-	*NA*		-
4-Methyl-2-pentanone	NE	ND		0.5	*NA*		-	*NA*		-	ND		0.5
Acetone	50	ND		2	ND		10	ND		10	ND		2
Benzene	1	ND		0.5	ND		5	ND		5	0.94		0.5
Bromobenzene	5	*NA*		-	*NA*			110		-	*NA*		-
Bromochloromethane	5	ND		0.5	ND		5	ND		5	ND		0.5
Bromodichloromethane	50	ND		0.5	ND		5	ND		5	ND		0.5
Bromoform	50	ND		0.5	ND		5	ND		5	ND		0.5
Bromomethane	5	ND		0.5	ND		5	ND		5	ND		0.5
Carbon disulfide	NE	ND		0.5	*NA*		-	*NA*		-	ND		0.5
Carbon tetrachloride	5	ND		0.5	ND		5	ND		5	ND		0.5
Chlorobenzene	5	ND		0.5	ND		5	ND		5	0.8		0.5
Chloroethane	5	ND		0.5	ND		5	ND		5	ND		0.5
Chloroform	7	ND		0.5	ND		5	ND		5	ND		0.5
Chloromethane	5	ND		0.5	ND		5	ND		5	ND		0.5
cis-1,2-Dichloroethylene	5	ND		0.5	2.5	J	5	1.5	J	5	4.5		0.5
cis-1,3-Dichloropropylene	0.4	ND		0.5	ND		5	ND		5	ND		0.5
Cyclohexane	NE	ND		0.5	*NA*		-	*NA*		-	ND		0.5
Dibromochloromethane	5	ND		0.5	ND		5	ND		5	ND		0.5
Dibromomethane	5	*NA*		-	*NA*			110		-	*NA*		-
Dichlorodifluoromethane	5	ND		0.5	ND		5	ND		5	ND		0.5
Ethyl Benzene	5	ND		0.5	ND		5	ND		5	ND		0.5
Hexachlorobutadiene	0.5	ND		0.5	ND		5	ND		5	0.29	J	0.5
Isopropylbenzene	5	*NA*		-	*NA*			110		-	*NA*		-
Methyl acetate	NE	ND		0.5	*NA*		-	*NA*		-	ND		0.5
Methyl tert-butyl ether (MTBE)	10	ND		0.5	ND		5	0.81	J	5	1.2		0.5
Methylcyclohexane	NE	ND		0.5	*NA*		-	*NA*		-	ND		0.5
Methylene chloride	5	ND		2	**5.3**	J,B	10	**5.8**	J,B	10	ND		2
Naphthalene	10	*NA*		-	*NA*			110		-	*NA*		-
n-Butylbenzene	5	*NA*		-	*NA*			110		-	*NA*		-
n-Propylbenzene	5	*NA*		-	*NA*			110		-	*NA*		-
o-Xylene	5	ND		0.5	ND		5	ND		5	ND		0.5
p- & m- Xylenes	5	ND		1	ND		10	ND		10	ND		1
p-Isopropyltoluene	5	*NA*		-	*NA*			110		-	*NA*		-
sec-Butylbenzene	5	*NA*		-	*NA*			110		-	*NA*		-
Styrene	5	ND		0.5	ND		5	ND		5	ND		0.5
tert-Butylbenzene	5	*NA*		-	*NA*			110		-	*NA*		-
Tetrachloroethylene	5	ND		0.5	ND		5	ND		5	ND		0.5
Toluene	5	ND		0.5	ND		5	ND		5	ND		0.5
trans-1,2-Dichloroethylene	5	ND		0.5	ND		5	ND		5	ND		0.5
trans-1,3-Dichloropropylene	0.4	ND		0.5	ND		5	ND		5	ND		0.5
Trichloroethylene	5	0.24	J, B	0.5	**7**		5	3	J	5	**16**	B	0.5
Trichlorofluoromethane	5	ND		0.5	ND		5	ND		5	ND		0.5
Vinyl acetate	NE	*NA*		-	*NA*			110		-	*NA*		-
Vinyl chloride	2	ND		0.5	ND		5	ND		5	0.41	J	0.5
Xylenes, Total	5	ND		1.5	ND		15	ND		15	ND		1.5
Total TICs	NE	*NA*		-	*NA*			110		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	MW-19 (2012-04-19)			MW-21 (2014-04-03)			MW-22 (2012-03-16)			MW-22 (2014-10-09)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	ND		5	*NA*		-	ND		5	*NA*		-
1,1,1-Trichloroethane	5	ND		5	ND		0.5	ND		5	ND		0.5
1,1,2,2-Tetrachloroethane	5	ND		5	ND		0.5	ND		5	ND		0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		5	ND		0.5	ND		5	ND		0.5
1,1,2-Trichloroethane	1	ND		5	ND		0.5	ND		5	ND		0.5
1,1-Dichloroethane	5	ND		5	ND		0.5	ND		5	ND		0.5
1,1-Dichloroethylene	5	ND		5	ND		0.5	ND		5	ND		0.5
1,1-Dichloropropylene	5	ND		5	*NA*		-	ND		5	*NA*		-
1,2,3-Trichlorobenzene	5	ND		10	ND		0.5	ND		10	ND		0.5
1,2,3-Trichloropropane	0.04	ND		5	*NA*		-	ND		5	*NA*		-
1,2,4-Trichlorobenzene	5	ND		10	ND		0.5	ND		10	ND		0.5
1,2,4-Trimethylbenzene	5	ND		5	*NA*		-	ND		5	*NA*		-
1,2-Dibromo-3-chloropropane	0.04	ND		10	ND		0.5	ND		10	ND		0.5
1,2-Dibromoethane	5	ND		5	ND		0.5	ND		5	ND		0.5
1,2-Dichlorobenzene	3	ND		5	ND		0.5	ND		5	ND		0.5
1,2-Dichloroethane	0.6	ND		5	ND		0.5	ND		5	ND		0.5
1,2-Dichloropropane	1	ND		5	ND		0.5	ND		5	ND		0.5
1,3,5-Trimethylbenzene	5	ND		5	*NA*		-	ND		5	*NA*		-
1,3-Dichlorobenzene	3	ND		5	ND		0.5	ND		5	0.32	J	0.5
1,3-Dichloropropane	5	ND		5	*NA*		-	ND		5	*NA*		-
1,4-Dichlorobenzene	3	ND		5	ND		0.5	ND		5	ND		0.5
1,4-Dioxane	NE	ND		5	*NA*		-	ND		5	*NA*		-
2,2-Dichloropropane	5	ND		5	*NA*		-	ND		5	*NA*		-
2-Butanone	50	ND		10	12	E	0.5	ND		10	ND		0.5
2-Chlorotoluene	5	ND		5	*NA*		-	ND		5	*NA*		-
2-Hexanone	50	*NA*		-	ND		0.5	*NA*		-	ND		0.5
4-Chlorotoluene	5	ND		5	*NA*		-	ND		5	*NA*		-
4-Methyl-2-pentanone	NE	*NA*		-	3.5		0.5	*NA*		-	ND		0.5
Acetone	50	ND		10	9.9		2	3.1	J,B	10	ND		2
Benzene	1	ND		5	ND		0.5	ND		5	ND		0.5
Bromobenzene	5	ND		5	*NA*		-	ND		5	*NA*		-
Bromochloromethane	5	ND		5	ND		0.5	ND		5	ND		0.5
Bromodichloromethane	50	ND		5	ND		0.5	ND		5	ND		0.5
Bromoform	50	ND		5	ND		0.5	ND		5	ND		0.5
Bromomethane	5	ND		5	ND		0.5	ND		5	ND		0.5
Carbon disulfide	NE	*NA*		-	ND		0.5	*NA*		-	ND		0.5
Carbon tetrachloride	5	ND		5	ND		0.5	ND		5	ND		0.5
Chlorobenzene	5	ND		5	ND		0.5	ND		5	ND		0.5
Chloroethane	5	ND		5	ND		0.5	ND		5	ND		0.5
Chloroform	7	ND		5	ND		0.5	ND		5	ND		0.5
Chloromethane	5	ND		5	ND		0.5	ND		5	ND		0.5
cis-1,2-Dichloroethylene	5	1.8	J	5	1.2		0.5	ND		5	ND		0.5
cis-1,3-Dichloropropylene	0.4	ND		5	ND		0.5	ND		5	ND		0.5
Cyclohexane	NE	*NA*		-	ND		0.5	*NA*		-	ND		0.5
Dibromochloromethane	5	ND		5	ND		0.5	ND		5	ND		0.5
Dibromomethane	5	ND		5	*NA*		-	ND		5	*NA*		-
Dichlorodifluoromethane	5	ND		5	ND		0.5	ND		5	ND		0.5
Ethyl Benzene	5	1.4	J	5	ND		0.5	ND		5	ND		0.5
Hexachlorobutadiene	0.5	ND		5	*NA*		-	ND		5	ND		0.5
Isopropylbenzene	5	ND		5	ND		0.5	ND		5	*NA*		-
Methyl acetate	NE	*NA*		-	ND		0.5	*NA*		-	ND		0.5
Methyl tert-butyl ether (MTBE)	10	ND		5	0.33	J	0.5	ND		5	ND		0.5
Methylcyclohexane	NE	*NA*		-	ND		0.5	*NA*		-	ND		0.5
Methylene chloride	5	**5.8**	J,B	10	**12**	B	2	**5.9**	J,B	10	ND		2
Naphthalene	10	ND		5	*NA*		-	ND		5	*NA*		-
n-Butylbenzene	5	ND		6	*NA*		-	ND		6	*NA*		-
n-Propylbenzene	5	ND		7	*NA*		-	ND		7	*NA*		-
o-Xylene	5	0.92	J	5	ND		0.5	ND		5	ND		0.5
p- & m- Xylenes	5	ND		10	ND		1	ND		10	ND		1
p-Isopropyltoluene	5	ND		5	*NA*		-	ND		5	*NA*		-
sec-Butylbenzene	5	ND		5	*NA*		-	ND		5	*NA*		-
Styrene	5	ND		5	ND		0.5	ND		5	ND		0.5
tert-Butylbenzene	5	ND		5	*NA*		-	ND		5	*NA*		-
Tetrachloroethylene	5	ND		5	ND		0.5	ND		5	ND		0.5
Toluene	5	ND		5	0.54		0.5	ND		5	ND		0.5
trans-1,2-Dichloroethylene	5	ND		5	ND		0.5	ND		5	ND		0.5
trans-1,3-Dichloropropylene	0.4	ND		5	ND		0.5	ND		5	ND		0.5
Trichloroethylene	5	1.5	J	5	ND		0.5	ND		5	ND		0.5
Trichlorofluoromethane	5	ND		5	ND		0.5	ND		5	ND		0.5
Vinyl acetate	NE	ND		5	*NA*		-	ND		5	*NA*		-
Vinyl chloride	2	ND		5	1.6		0.5	ND		5	ND		0.5
Xylenes, Total	5	ND		15	ND		1.5	ND		15	ND		1.5
Total TICs	NE	*NA*			6,624			69		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	MW-23 (2012-09-24)			MW-24 (2012-09-24)			MW-27 (2012-09-28)			MW-28 (2013-08-16)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,1-Trichloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,2,2-Tetrachloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,2-Trichloroethane	1	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloropropylene	5	ND		5	ND		5	ND		5	ND		5
1,2,3-Trichlorobenzene	5	ND		10	ND		10	ND		10	ND		5
1,2,3-Trichloropropane	0.04	ND		5	ND		5	ND		5	ND		5
1,2,4-Trichlorobenzene	5	ND		10	ND		10	ND		10	ND		5
1,2,4-Trimethylbenzene	5	ND		5	ND		5	ND		5	ND		5
1,2-Dibromo-3-chloropropane	0.04	ND		10	ND		10	ND		10	ND		5
1,2-Dibromoethane	5	ND		5	ND		5	ND		5	ND		5
1,2-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,2-Dichloroethane	0.6	ND		5	ND		5	ND		5	ND		5
1,2-Dichloropropane	1	ND		5	ND		5	ND		5	ND		5
1,3,5-Trimethylbenzene	5	ND		5	ND		5	ND		5	ND		5
1,3-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,3-Dichloropropane	5	ND		5	ND		5	ND		5	ND		5
1,4-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,4-Dioxane	NE	ND		5	ND		5	ND		5	ND		5
2,2-Dichloropropane	5	ND		5	ND		5	ND		5	ND		5
2-Butanone	50	ND		10	ND		10	ND		10	ND		5
2-Chlorotoluene	5	ND		5	ND		5	ND		5	ND		5
2-Hexanone	50	*NA*		-	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	5	ND		5	ND		5	ND		5	ND		5
4-Methyl-2-pentanone	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Acetone	50	ND		10	ND		10	ND		10	ND		5
Benzene	1	ND		5	ND		5	ND		5	ND		5
Bromobenzene	5	ND		5	ND		5	ND		5	ND		5
Bromochloromethane	5	ND		5	ND		5	ND		5	ND		5
Bromodichloromethane	50	ND		5	ND		5	ND		5	ND		5
Bromoform	50	ND		5	ND		5	ND		5	ND		5
Bromomethane	5	ND		5	ND		5	ND		5	ND		5
Carbon disulfide	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	5	ND		5	ND		5	ND		5	ND		5
Chlorobenzene	5	ND		5	ND		5	ND		5	ND		5
Chloroethane	5	ND		5	ND		5	ND		5	ND		5
Chloroform	7	ND		5	ND		5	1	J	5	ND		5
Chloromethane	5	ND		5	ND		5	ND		5	ND		5
cis-1,2-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		5
cis-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		5	ND		5
Cyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Dibromochloromethane	5	ND		5	ND		5	ND		5	ND		5
Dibromomethane	5	ND		5	ND		5	ND		5	ND		5
Dichlorodifluoromethane	5	ND		5	ND		5	ND		5	ND		5
Ethyl Benzene	5	ND		5	ND		5	ND		5	ND		5
Hexachlorobutadiene	0.5	ND		5	ND		5	ND		5	ND		5
Isopropylbenzene	5	ND		5	ND		5	ND		5	ND		5
Methyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	10	ND		5	ND		5	ND		5	ND		5
Methylcyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Methylene chloride	5	ND		10	ND		10	ND		10	ND		5
Naphthalene	10	ND		5	ND		5	ND		5	ND		5
n-Butylbenzene	5	ND		6	ND		6	ND		6	ND		6
n-Propylbenzene	5	ND		7	ND		7	ND		7	ND		7
o-Xylene	5	ND		5	ND		5	ND		5	ND		5
p- & m- Xylenes	5	ND		10	ND		10	ND		10	ND		10
p-Isopropyltoluene	5	ND		5	ND		5	ND		5	ND		5
sec-Butylbenzene	5	ND		5	ND		5	ND		5	ND		5
Styrene	5	ND		5	ND		5	ND		5	ND		5
tert-Butylbenzene	5	ND		5	ND		5	ND		5	ND		5
Tetrachloroethylene	5	ND		5	ND		5	ND		5	ND		5
Toluene	5	ND		5	ND		5	ND		5	ND		5
trans-1,2-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		5
trans-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		5	ND		5
Trichloroethylene	5	ND		5	ND		5	ND		5	ND		5
Trichlorofluoromethane	5	ND		5	ND		5	ND		5	ND		5
Vinyl acetate	NE	ND		5	ND		5	ND		5	ND		5
Vinyl chloride	2	ND		5	ND		5	ND		5	ND		5
Xylenes, Total	5	ND		15	ND		15	ND		15	ND		15
Total TICs	NE	5.6		-	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	MW-29 (2013-08-16)			MW-30 (2013-08-16)			MW-31 (2013-08-16)			MW-32 (2013-08-16)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,1-Trichloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,2,2-Tetrachloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,2-Trichloroethane	1	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloropropylene	5	ND		5	ND		5	ND		5	ND		5
1,2,3-Trichlorobenzene	5	ND		5	ND		5	ND		5	ND		5
1,2,3-Trichloropropane	0.04	ND		5	ND		5	ND		5	ND		5
1,2,4-Trichlorobenzene	5	ND		5	ND		5	ND		5	ND		5
1,2,4-Trimethylbenzene	5	ND		5	ND		5	ND		5	ND		5
1,2-Dibromo-3-chloropropane	0.04	ND		5	ND		5	ND		5	ND		5
1,2-Dibromoethane	5	ND		5	ND		5	ND		5	ND		5
1,2-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,2-Dichloroethane	0.6	ND		5	ND		5	ND		5	ND		5
1,2-Dichloropropane	1	ND		5	ND		5	ND		5	ND		5
1,3,5-Trimethylbenzene	5	ND		5	ND		5	ND		5	ND		5
1,3-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,3-Dichloropropane	5	ND		5	ND		5	ND		5	ND		5
1,4-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,4-Dioxane	NE	ND		5	ND		5	ND		5	ND		5
2,2-Dichloropropane	5	ND		5	ND		5	ND		5	ND		5
2-Butanone	50	ND		5	ND		5	ND		5	ND		5
2-Chlorotoluene	5	ND		5	ND		5	ND		5	ND		5
2-Hexanone	50	*NA*		-	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	5	ND		5	ND		5	ND		5	ND		5
4-Methyl-2-pentanone	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Acetone	50	ND		5	ND		5	ND		5	4.8	J,B	5
Benzene	1	ND		5	ND		5	ND		5	ND		5
Bromobenzene	5	ND		5	ND		5	ND		5	ND		5
Bromochloromethane	5	ND		5	ND		5	ND		5	ND		5
Bromodichloromethane	50	ND		5	ND		5	ND		5	ND		5
Bromoform	50	ND		5	ND		5	ND		5	ND		5
Bromomethane	5	ND		5	ND		5	ND		5	ND		5
Carbon disulfide	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	5	ND		5	ND		5	ND		5	ND		5
Chlorobenzene	5	ND		5	ND		5	ND		5	ND		5
Chloroethane	5	ND		5	ND		5	ND		5	ND		5
Chloroform	7	ND		5	5.4		5	ND		5	ND		5
Chloromethane	5	ND		5	ND		5	ND		5	ND		5
cis-1,2-Dichloroethylene	5	ND		5	ND		5	ND		5	**25**		5
cis-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		5	ND		5
Cyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Dibromochloromethane	5	ND		5	ND		5	ND		5	ND		5
Dibromomethane	5	ND		5	ND		5	ND		5	ND		5
Dichlorodifluoromethane	5	ND		5	ND		5	ND		5	ND		5
Ethyl Benzene	5	ND		5	ND		5	ND		5	ND		5
Hexachlorobutadiene	0.5	ND		5	ND		5	ND		5	ND		5
Isopropylbenzene	5	ND		5	ND		5	ND		5	ND		5
Methyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	10	6.3		5	ND		5	ND		5	ND		5
Methylcyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Methylene chloride	5	ND		5	ND		5	ND		5	ND		5
Naphthalene	10	ND		5	ND		5	ND		5	ND		5
n-Butylbenzene	5	ND		6	ND		6	ND		6	ND		6
n-Propylbenzene	5	ND		7	ND		7	ND		7	ND		7
o-Xylene	5	ND		5	ND		5	ND		5	ND		5
p- & m- Xylenes	5	ND		10	ND		10	ND		10	ND		10
p-Isopropyltoluene	5	ND		5	ND		5	ND		5	ND		5
sec-Butylbenzene	5	ND		5	ND		5	ND		5	ND		5
Styrene	5	ND		5	ND		5	ND		5	ND		5
tert-Butylbenzene	5	ND		5	ND		5	ND		5	ND		5
Tetrachloroethylene	5	ND		5	ND		5	ND		5	ND		5
Toluene	5	ND		5	ND		5	ND		5	ND		5
trans-1,2-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		5
trans-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		5	ND		5
Trichloroethylene	5	**13**		5	ND		5	ND		5	**15**		5
Trichlorofluoromethane	5	ND		5	ND		5	ND		5	ND		5
Vinyl acetate	NE	ND		5	ND		5	ND		5	ND		5
Vinyl chloride	2	ND		5	ND		5	ND		5	**3.1**	J	5
Xylenes, Total	5	ND		15	ND		15	ND		15	ND		15
Total TICs	NE	ND		-	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	MW-34 (2013-08-16)			MW-34 (2013-11-25)			MW-34 (2014-10-08)			MW-35 (2013-08-16)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	ND		5	ND		120	*NA*		-	ND		5
1,1,1-Trichloroethane	5	ND		5	ND		120	ND		50	ND		5
1,1,2,2-Tetrachloroethane	5	ND		5	*NA*		-	ND		50	ND		5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		5	ND		120	ND		50	ND		5
1,1,2-Trichloroethane	1	ND		5	ND		120	ND		50	ND		5
1,1-Dichloroethane	5	ND		5	ND		120	ND		50	ND		5
1,1-Dichloroethylene	5	3.9	J	5	ND		120	ND		50	ND		5
1,1-Dichloropropylene	5	ND		5	ND		120	*NA*		-	ND		5
1,2,3-Trichlorobenzene	5	ND		5	*NA*		-	ND		50	ND		5
1,2,3-Trichloropropane	0.04	ND		5	ND		120	*NA*		-	ND		5
1,2,4-Trichlorobenzene	5	ND		5	*NA*		250	ND		50	ND		5
1,2,4-Trimethylbenzene	5	ND		5	ND		120	*NA*		-	ND		5
1,2-Dibromo-3-chloropropane	0.04	ND		5	ND		250	ND		50	ND		5
1,2-Dibromoethane	5	ND		5	ND		120	ND		50	ND		5
1,2-Dichlorobenzene	3	ND		5	*NA*		-	ND		50	ND		5
1,2-Dichloroethane	0.6	ND		5	ND		120	ND		50	ND		5
1,2-Dichloropropane	1	ND		5	ND		120	ND		50	ND		5
1,3,5-Trimethylbenzene	5	ND		5	ND		120	*NA*		-	ND		5
1,3-Dichlorobenzene	3	ND		5	*NA*		-	ND		50	ND		5
1,3-Dichloropropane	5	ND		5	ND		120	*NA*		-	ND		5
1,4-Dichlorobenzene	3	ND		5	*NA*		-	ND		50	ND		5
1,4-Dioxane	NE	ND		5	ND		120	*NA*		-	ND		5
2,2-Dichloropropane	5	ND		5	ND		120	*NA*		-	ND		5
2-Butanone	50	ND		5	ND		250	ND		50	ND		5
2-Chlorotoluene	5	ND		5	ND		120	*NA*		-	ND		5
2-Hexanone	50	*NA*		-	ND		120	ND		50	*NA*		-
4-Chlorotoluene	5	ND		5	ND		120	*NA*		-	ND		5
4-Methyl-2-pentanone	NE	*NA*		-	ND		250	ND		50	*NA*		-
Acetone	50	ND		5	ND		250	ND		200	13		5
Benzene	1	ND		5	ND		120	ND		50	ND		5
Bromobenzene	5	ND		5	ND		120	*NA*		-	ND		5
Bromochloromethane	5	ND		5	*NA*		-	ND		50	ND		5
Bromodichloromethane	50	ND		5	ND		120	ND		50	ND		5
Bromoform	50	ND		5	ND		120	ND		50	ND		5
Bromomethane	5	ND		5	ND		120	ND		50	ND		5
Carbon disulfide	NE	*NA*		-	ND		120	ND		50	*NA*		-
Carbon tetrachloride	5	ND		5	ND		120	ND		50	ND		5
Chlorobenzene	5	ND		5	ND		120	ND		50	ND		5
Chloroethane	5	ND		5	ND		120	ND		50	ND		5
Chloroform	7	ND		5	ND		120	ND		50	ND		5
Chloromethane	5	ND		5	ND		120	ND		50	ND		5
cis-1,2-Dichloroethylene	5	**740**		120	**590**		120	**670**		50	**61**		5
cis-1,3-Dichloropropylene	0.4	ND		5	ND		120	ND		50	ND		5
Cyclohexane	NE	*NA*		-	*NA*		-	ND		50	*NA*		-
Dibromochloromethane	5	ND		5	ND		120	ND		50	ND		5
Dibromomethane	5	ND		5	ND		120	*NA*		-	ND		5
Dichlorodifluoromethane	5	ND		5	ND		120	ND		50	ND		5
Ethyl Benzene	5	ND		5	ND		120	ND		50	ND		5
Hexachlorobutadiene	0.5	ND		5	ND		120	ND		50	ND		5
Isopropylbenzene	5	ND		5	ND		120	*NA*		-	ND		5
Methyl acetate	NE	*NA*		-	*NA*		-	ND		50	*NA*		-
Methyl tert-butyl ether (MTBE)	10	ND		5	ND		120	ND		50	ND		5
Methylcyclohexane	NE	*NA*		-	*NA*		-	ND		50	*NA*		-
Methylene chloride	5	ND		5	ND		250	ND		200	ND		5
Naphthalene	10	ND		5	ND		120	*NA*		-	ND		5
n-Butylbenzene	5	ND		6	ND		121	*NA*		-	ND		6
n-Propylbenzene	5	ND		7	ND		122	*NA*		-	ND		7
o-Xylene	5	ND		5	ND		120	ND		50	ND		5
p- & m- Xylenes	5	ND		10	ND		250	ND		100	ND		10
p-Isopropyltoluene	5	ND		5	ND		120	*NA*		-	ND		5
sec-Butylbenzene	5	ND		5	ND		120	*NA*		-	ND		5
Styrene	5	ND		5	ND		120	ND		50	ND		5
tert-Butylbenzene	5	ND		5	ND		120	*NA*		-	ND		5
Tetrachloroethylene	5	2.7	J	5	ND		120	ND		50	ND		5
Toluene	5	ND		5	ND		120	ND		50	ND		5
trans-1,2-Dichloroethylene	5	ND		5	ND		120	ND		50	ND		5
trans-1,3-Dichloropropylene	0.4	ND		5	ND		120	ND		50	ND		5
Trichloroethylene	5	**2,600**		120	**2,300**		120	**3,000**		50	**160**		5
Trichlorofluoromethane	5	ND		5	ND		120	ND		50	ND		5
Vinyl acetate	NE	ND		5	ND		120	*NA*		-	ND		5
Vinyl chloride	2	**12**		5	ND		120	ND		50	**2.9**	J	5
Xylenes, Total	5	ND		15	ND		380	ND		150	ND		15
Total TICs	NE	ND		-	ND		-	*NA*		-	6.7		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	MW-36 (2014-12-23)			MW-36A (2014-12-23)			MW-37 (2014-12-23)			MW-38 (2014-10-08)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,1,1-Trichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		1
1,1,2,2-Tetrachloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		1
1,1,2-Trichloroethane	1	ND		2.5	ND		2.5	ND		2.5	ND		1
1,1-Dichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		1
1,1-Dichloroethylene	5	ND		2.5	ND		2.5	ND		2.5	ND		1
1,1-Dichloropropylene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	5	*NA*		-	*NA*		-	*NA*		-	ND		1
1,2,3-Trichloropropane	0.04	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,2,4-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		1
1,2,4-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	*NA*		-
1,2-Dibromo-3-chloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		1
1,2-Dibromoethane	5	ND		2.5	ND		2.5	ND		2.5	ND		1
1,2-Dichlorobenzene	3	*NA*		-	*NA*		-	*NA*		-	ND		1
1,2-Dichloroethane	0.6	ND		2.5	ND		2.5	ND		2.5	ND		1
1,2-Dichloropropane	1	ND		2.5	ND		2.5	ND		2.5	ND		1
1,3,5-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	*NA*		-
1,3-Dichlorobenzene	3	*NA*		-	*NA*		-	*NA*		-	ND		1
1,3-Dichloropropane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,4-Dichlorobenzene	3	*NA*		-	*NA*		-	*NA*		-	ND		1
1,4-Dioxane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2,2-Dichloropropane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2-Butanone	50	ND		2.5	ND		2.5	ND		2.5	ND		1
2-Chlorotoluene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2-Hexanone	50	ND		2.5	ND		2.5	ND		2.5	ND		1
4-Chlorotoluene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
4-Methyl-2-pentanone	NE	ND		2.5	ND		2.5	ND		2.5	ND		1
Acetone	50	ND		5	ND		5	ND		5	ND		4
Benzene	1	ND		2.5	ND		2.5	ND		2.5	ND		1
Bromobenzene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Bromochloromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		1
Bromodichloromethane	50	*NA*		-	*NA*		-	*NA*		-	ND		1
Bromoform	50	ND		2.5	ND		2.5	ND		2.5	ND		1
Bromomethane	5	ND		2.5	ND		2.5	ND		2.5	ND		1
Carbon disulfide	NE	ND		2.5	ND		2.5	ND		2.5	ND		1
Carbon tetrachloride	5	ND		2.5	ND		2.5	ND		2.5	ND		1
Chlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		1
Chloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		1
Chloroform	7	ND		2.5	ND		2.5	ND		2.5	ND		1
Chloromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		1
cis-1,2-Dichloroethylene	5	ND		2.5	ND		2.5	ND		2.5	3.5		1
cis-1,3-Dichloropropylene	0.4	ND		2.5	ND		2.5	ND		2.5	ND		1
Cyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	ND		1
Dibromochloromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		1
Dibromomethane	5	ND		2.5	ND		2.5	ND		2.5	*NA*		-
Dichlorodifluoromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		1
Ethyl Benzene	5	ND		2.5	ND		2.5	ND		2.5	ND		1
Hexachlorobutadiene	0.5	*NA*		-	*NA*		-	*NA*		-	ND		1
Isopropylbenzene	5	ND		2.5	ND		2.5	ND		2.5	*NA*		-
Methyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	ND		1
Methyl tert-butyl ether (MTBE)	10	ND		2.5	ND		2.5	ND		2.5	ND		1
Methylcyclohexane	NE	ND		2.5	ND		2.5	ND		2.5	ND		1
Methylene chloride	5	ND		2.5	ND		2.5	ND		2.5	ND		4
Naphthalene	10	ND		2.5	ND		2.5	ND		2.5	*NA*		-
n-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	*NA*		-
n-Propylbenzene	5	ND		2.5	ND		2.5	ND		2.5	*NA*		-
o-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		1
p- & m- Xylenes	5	ND		5	ND		5	ND		5	ND		2
p-Isopropyltoluene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
sec-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	*NA*		-
Styrene	5	ND		2.5	ND		2.5	ND		2.5	ND		1
tert-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	*NA*		-
Tetrachloroethylene	5	ND		2.5	ND		2.5	ND		2.5	ND		1
Toluene	5	ND		2.5	ND		2.5	ND		2.5	ND		1
trans-1,2-Dichloroethylene	5	ND		2.5	ND		2.5	ND		2.5	ND		1
trans-1,3-Dichloropropylene	0.4	ND		2.5	ND		2.5	ND		2.5	ND		1
Trichloroethylene	5	ND		2.5	ND		2.5	ND		2.5	**47**	B	1
Trichlorofluoromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		1
Vinyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Vinyl chloride	2	ND		2.5	ND		2.5	ND		2.5	ND		1
Xylenes, Total	5	ND		7.5	ND		7.5	ND		7.5	ND		3
Total TICs	NE	ND		-	ND		-	ND		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	MW-39 (2014-10-08)			MW-40 (2014-10-08)			MW-41 (2014-12-23)			MW-42 (2014-12-23)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*						
1,1,1,2-Tetrachloroethane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,1,1-Trichloroethane	5	ND		5	ND		50	ND		2.5	ND		2.5
1,1,2,2-Tetrachloroethane	5	ND		5	ND		50	ND		2.5	ND		2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		5	ND		50	ND		2.5	ND		2.5
1,1,2-Trichloroethane	1	ND		5	ND		50	ND		2.5	ND		2.5
1,1-Dichloroethane	5	ND		5	ND		50	ND		2.5	ND		2.5
1,1-Dichloroethylene	5	ND		5	ND		50	ND		2.5	ND		2.5
1,1-Dichloropropylene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	5	ND		5	ND		50	*NA*		-	*NA*		-
1,2,3-Trichloropropane	0.04	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,2,4-Trichlorobenzene	5	ND		5	ND		50	ND		2.5	ND		2.5
1,2,4-Trimethylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
1,2-Dibromo-3-chloropropane	0.04	ND		5	ND		50	ND		2.5	ND		2.5
1,2-Dibromoethane	5	ND		5	ND		50	ND		2.5	ND		2.5
1,2-Dichlorobenzene	3	ND		5	ND		50	*NA*		-	*NA*		-
1,2-Dichloroethane	0.6	ND		5	ND		50	ND		2.5	ND		2.5
1,2-Dichloropropane	1	ND		5	ND		50	ND		2.5	ND		2.5
1,3,5-Trimethylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
1,3-Dichlorobenzene	3	ND		5	ND		50	*NA*		-	*NA*		-
1,3-Dichloropropane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,4-Dichlorobenzene	3	ND		5	ND		50	*NA*		-	*NA*		-
1,4-Dioxane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2,2-Dichloropropane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2-Butanone	50	ND		5	ND		50	ND		2.5	ND		2.5
2-Chlorotoluene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2-Hexanone	50	ND		5	ND		50	ND		2.5	ND		2.5
4-Chlorotoluene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
4-Methyl-2-pentanone	NE	ND		5	ND		50	ND		2.5	ND		2.5
Acetone	50	ND		20	ND		200	ND		5	ND		5
Benzene	1	ND		5	ND		50	ND		2.5	ND		2.5
Bromobenzene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Bromochloromethane	5	ND		5	ND		50	ND		2.5	ND		2.5
Bromodichloromethane	50	ND		5	ND		50	*NA*		-	*NA*		-
Bromoform	50	ND		5	ND		50	ND		2.5	ND		2.5
Bromomethane	5	ND		5	ND		50	ND		2.5	ND		2.5
Carbon disulfide	NE	ND		5	ND		50	ND		2.5	ND		2.5
Carbon tetrachloride	5	ND		5	ND		50	ND		2.5	ND		2.5
Chlorobenzene	5	ND		5	ND		50	ND		2.5	ND		2.5
Chloroethane	5	ND		5	ND		50	ND		2.5	ND		2.5
Chloroform	7	ND		5	ND		50	ND		2.5	ND		2.5
Chloromethane	5	ND		5	ND		50	ND		2.5	ND		2.5
cis-1,2-Dichloroethylene	5	**33**		5	**530**		50	ND		2.5	ND		2.5
cis-1,3-Dichloropropylene	0.4	ND		5	ND		50	ND		2.5	ND		2.5
Cyclohexane	NE	ND		5	ND		50	*NA*		-	*NA*		-
Dibromochloromethane	5	ND		5	ND		50	ND		2.5	ND		2.5
Dibromomethane	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
Dichlorodifluoromethane	5	ND		5	ND		50	ND		2.5	ND		2.5
Ethyl Benzene	5	ND		5	ND		50	ND		2.5	ND		2.5
Hexachlorobutadiene	0.5	ND		5	ND		50	*NA*		-	*NA*		-
Isopropylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
Methyl acetate	NE	ND		5	ND		50	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	10	ND		5	ND		50	ND		2.5	ND		2.5
Methylcyclohexane	NE	ND		5	ND		50	ND		2.5	ND		2.5
Methylene chloride	5	ND		20	ND		200	ND		2.5	ND		2.5
Naphthalene	10	*NA*		-	*NA*		-	ND		2.5	ND		2.5
n-Butylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
n-Propylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
o-Xylene	5	ND		5	ND		50	ND		2.5	ND		2.5
p- & m- Xylenes	5	ND		10	ND		100	ND		5	ND		5
p-Isopropyltoluene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
sec-Butylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
Styrene	5	ND		5	ND		50	ND		2.5	ND		2.5
tert-Butylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
Tetrachloroethylene	5	ND		5	ND		50	ND		2.5	ND		2.5
Toluene	5	ND		5	ND		50	ND		2.5	ND		2.5
trans-1,2-Dichloroethylene	5	ND		5	**25**	J	50	ND		2.5	ND		2.5
trans-1,3-Dichloropropylene	0.4	ND		5	ND		50	ND		2.5	ND		2.5
Trichloroethylene	5	**210**		5	**7,400**		120	ND		2.5	ND		2.5
Trichlorofluoromethane	5	ND		5	ND		50	ND		2.5	ND		2.5
Vinyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Vinyl chloride	2	ND		5	ND		50	ND		2.5	ND		2.5
Xylenes, Total	5	ND		15	ND		150	ND		7.5	ND		7.5
Total TICs	NE	*NA*		-	*NA*		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	Rinse Blank (2012-02-02)			Rinse Blank (2012-03-16)			Trip Blank (2012-02-01)			Trip Blank (2012-02-02)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,1-Trichloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,2,2-Tetrachloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,2-Trichloroethane	1	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloropropylene	5	ND		5	ND		5	ND		5	ND		5
1,2,3-Trichlorobenzene	5	ND		10	ND		10	ND		10	ND		10
1,2,3-Trichloropropane	0.04	ND		5	ND		5	ND		5	ND		5
1,2,4-Trichlorobenzene	5	ND		10	ND		10	ND		10	ND		10
1,2,4-Trimethylbenzene	5	ND		5	ND		5	ND		5	ND		5
1,2-Dibromo-3-chloropropane	0.04	ND		10	ND		10	ND		10	ND		10
1,2-Dibromoethane	5	ND		5	ND		5	ND		5	ND		5
1,2-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,2-Dichloroethane	0.6	ND		5	ND		5	ND		5	ND		5
1,2-Dichloropropane	1	ND		5	ND		5	ND		5	ND		5
1,3,5-Trimethylbenzene	5	ND		5	ND		5	ND		5	ND		5
1,3-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,3-Dichloropropane	5	ND		5	ND		5	ND		5	ND		5
1,4-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,4-Dioxane	NE	ND		5	ND		5	ND		5	ND		5
2,2-Dichloropropane	5	ND		5	ND		5	ND		5	ND		5
2-Butanone	50	ND		10	ND		10	ND		10	ND		10
2-Chlorotoluene	5	ND		5	ND		5	ND		5	ND		5
2-Hexanone	50	*NA*		-	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	5	ND		5	ND		5	ND		5	ND		5
4-Methyl-2-pentanone	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Acetone	50	ND		10	4.2	J,B	10	ND		10	ND		10
Benzene	1	ND		5	ND		5	ND		5	ND		5
Bromobenzene	5	ND		5	ND		5	ND		5	ND		5
Bromochloromethane	5	ND		5	ND		5	ND		5	ND		5
Bromodichloromethane	50	ND		5	ND		5	ND		5	ND		5
Bromoform	50	ND		5	ND		5	ND		5	ND		5
Bromomethane	5	ND		5	ND		5	ND		5	ND		5
Carbon disulfide	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	5	ND		5	ND		5	ND		5	ND		5
Chlorobenzene	5	ND		5	ND		5	ND		5	ND		5
Chloroethane	5	ND		5	ND		5	ND		5	ND		5
Chloroform	7	ND		5	ND		5	ND		5	ND		5
Chloromethane	5	ND		5	ND		5	ND		5	ND		5
cis-1,2-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		5
cis-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		5	ND		5
Cyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Dibromochloromethane	5	ND		5	ND		5	ND		5	ND		5
Dibromomethane	5	ND		5	ND		5	ND		5	ND		5
Dichlorodifluoromethane	5	ND		5	ND		5	ND		5	ND		5
Ethyl Benzene	5	ND		5	ND		5	ND		5	ND		5
Hexachlorobutadiene	0.5	ND		5	ND		5	ND		5	ND		5
Isopropylbenzene	5	ND		5	ND		5	ND		5	ND		5
Methyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	10	ND		5	ND		5	ND		5	ND		5
Methylcyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Methylene chloride	5	ND		10	**5.8**	J,B	10	ND		10	ND		10
Naphthalene	10	ND		5	ND		5	ND		5	ND		5
n-Butylbenzene	5	ND		6	ND		6	ND		6	ND		6
n-Propylbenzene	5	ND		7	ND		7	ND		7	ND		7
o-Xylene	5	ND		5	ND		5	ND		5	ND		5
p- & m- Xylenes	5	ND		10	ND		10	ND		10	ND		10
p-Isopropyltoluene	5	ND		5	ND		5	ND		5	ND		5
sec-Butylbenzene	5	ND		5	ND		5	ND		5	ND		5
Styrene	5	ND		5	ND		5	ND		5	ND		5
tert-Butylbenzene	5	ND		5	ND		5	ND		5	ND		5
Tetrachloroethylene	5	ND		5	ND		5	ND		5	ND		5
Toluene	5	ND		5	ND		5	ND		5	ND		5
trans-1,2-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		5
trans-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		5	ND		5
Trichloroethylene	5	ND		5	ND		5	ND		5	ND		5
Trichlorofluoromethane	5	ND		5	ND		5	ND		5	ND		5
Vinyl acetate	NE	ND		5	ND		5	ND		5	ND		5
Vinyl chloride	2	ND		5	ND		5	ND		5	ND		5
Xylenes, Total	5	ND		15	ND		15	ND		15	ND		15
Total TICs	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	Trip Blank (2012-02-10)			Trip Blank (2012-02-16)			Trip Blank (2012-03-16)			Trip Blank (2012-04-25)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,1-Trichloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,2,2-Tetrachloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		5	ND		5	ND		5	ND		5
1,1,2-Trichloroethane	1	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethane	5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloropropylene	5	ND		5	ND		5	ND		5	ND		5
1,2,3-Trichlorobenzene	5	ND		10	ND		10	ND		10	ND		10
1,2,3-Trichloropropane	0.04	ND		5	ND		5	ND		5	ND		5
1,2,4-Trichlorobenzene	5	ND		10	ND		10	ND		10	ND		10
1,2,4-Trimethylbenzene	5	ND		5	ND		5	ND		5	ND		5
1,2-Dibromo-3-chloropropane	0.04	ND		10	ND		10	ND		10	ND		10
1,2-Dibromoethane	5	ND		5	ND		5	ND		5	ND		5
1,2-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,2-Dichloroethane	0.6	ND		5	ND		5	ND		5	ND		5
1,2-Dichloropropane	1	ND		5	ND		5	ND		5	ND		5
1,3,5-Trimethylbenzene	5	ND		5	ND		5	ND		5	ND		5
1,3-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,3-Dichloropropane	5	ND		5	ND		5	ND		5	ND		5
1,4-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,4-Dioxane	NE	ND		5	ND		5	ND		5	ND		5
2,2-Dichloropropane	5	ND		5	ND		5	ND		5	ND		5
2-Butanone	50	ND		10	ND		10	ND		10	ND		10
2-Chlorotoluene	5	ND		5	ND		5	ND		5	ND		5
2-Hexanone	50	*NA*		-	*NA*		-	*NA*		-	*NA*		-
4-Chlorotoluene	5	ND		5	ND		5	ND		5	ND		5
4-Methyl-2-pentanone	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Acetone	50	4.6	J,B	10	8.4	J,B	10	3.4	J,B	10	3.1	J,B	10
Benzene	1	ND		5	ND		5	ND		5	ND		5
Bromobenzene	5	ND		5	ND		5	ND		5	ND		5
Bromochloromethane	5	ND		5	ND		5	ND		5	ND		5
Bromodichloromethane	50	ND		5	ND		5	ND		5	ND		5
Bromoform	50	ND		5	ND		5	ND		5	ND		5
Bromomethane	5	ND		5	ND		5	ND		5	ND		5
Carbon disulfide	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Carbon tetrachloride	5	ND		5	ND		5	ND		5	ND		5
Chlorobenzene	5	ND		5	ND		5	ND		5	ND		5
Chloroethane	5	ND		5	ND		5	ND		5	ND		5
Chloroform	7	ND		5	ND		5	ND		5	ND		5
Chloromethane	5	ND		5	ND		5	ND		5	ND		5
cis-1,2-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		5
cis-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		5	ND		5
Cyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Dibromochloromethane	5	ND		5	ND		5	ND		5	ND		5
Dibromomethane	5	ND		5	ND		5	ND		5	ND		5
Dichlorodifluoromethane	5	ND		5	ND		5	ND		5	ND		5
Ethyl Benzene	5	ND		5	ND		5	ND		5	ND		5
Hexachlorobutadiene	0.5	ND		5	ND		5	ND		5	ND		5
Isopropylbenzene	5	ND		5	ND		5	ND		5	ND		5
Methyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	10	ND		5	ND		5	ND		5	ND		5
Methylcyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Methylene chloride	5	ND		10	**26**	B	10	**5.4**	J,B	10	**6.5**	J,B	10
Naphthalene	10	ND		5	ND		5	ND		5	ND		5
n-Butylbenzene	5	ND		6	ND		6	ND		6	ND		6
n-Propylbenzene	5	ND		7	ND		7	ND		7	ND		7
o-Xylene	5	ND		5	ND		5	ND		5	ND		5
p- & m- Xylenes	5	ND		10	ND		10	ND		10	ND		10
p-Isopropyltoluene	5	ND		5	ND		5	ND		5	ND		5
sec-Butylbenzene	5	ND		5	ND		5	ND		5	ND		5
Styrene	5	ND		5	ND		5	ND		5	ND		5
tert-Butylbenzene	5	ND		5	ND		5	ND		5	ND		5
Tetrachloroethylene	5	ND		5	ND		5	ND		5	ND		5
Toluene	5	ND		5	ND		5	ND		5	ND		5
trans-1,2-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		5
trans-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		5	ND		5
Trichloroethylene	5	ND		5	ND		5	ND		5	ND		5
Trichlorofluoromethane	5	ND		5	ND		5	ND		5	ND		5
Vinyl acetate	NE	ND		5	ND		5	ND		5	ND		5
Vinyl chloride	2	ND		5	ND		5	ND		5	ND		5
Xylenes, Total	5	ND		15	ND		15	ND		15	ND		15
Total TICs	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	Trip Blank (2012-09-24)			Trip Blank (2012-09-28)			Trip Blank (2013-08-16)			Trip Blank (2014-04-03)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	ND		5	ND		5	ND		5	*NA*		-
1,1,1-Trichloroethane	5	ND		5	ND		5	ND		5	ND		0.5
1,1,2,2-Tetrachloroethane	5	ND		5	ND		5	ND		5	ND		0.5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		5	ND		5	ND		5	ND		0.5
1,1,2-Trichloroethane	1	ND		5	ND		5	ND		5	ND		0.5
1,1-Dichloroethane	5	ND		5	ND		5	ND		5	ND		0.5
1,1-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		0.5
1,1-Dichloropropylene	5	ND		5	ND		5	ND		5	*NA*		-
1,2,3-Trichlorobenzene	5	ND		10	ND		10	ND		5	ND		0.5
1,2,3-Trichloropropane	0.04	ND		5	ND		5	ND		5	*NA*		-
1,2,4-Trichlorobenzene	5	ND		10	ND		10	ND		5	ND		0.5
1,2,4-Trimethylbenzene	5	ND		5	ND		5	ND		5	*NA*		-
1,2-Dibromo-3-chloropropane	0.04	ND		10	ND		10	ND		5	ND		0.5
1,2-Dibromoethane	5	ND		5	ND		5	ND		5	ND		0.5
1,2-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		0.5
1,2-Dichloroethane	0.6	ND		5	ND		5	ND		5	ND		0.5
1,2-Dichloropropane	1	ND		5	ND		5	ND		5	ND		0.5
1,3,5-Trimethylbenzene	5	ND		5	ND		5	ND		5	*NA*		-
1,3-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		0.5
1,3-Dichloropropane	5	ND		5	ND		5	ND		5	*NA*		-
1,4-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		0.5
1,4-Dioxane	NE	ND		5	ND		5	ND		5	*NA*		-
2,2-Dichloropropane	5	ND		5	ND		5	ND		5	*NA*		-
2-Butanone	50	ND		10	ND		10	ND		5	ND		0.5
2-Chlorotoluene	5	ND		5	ND		5	ND		5	*NA*		-
2-Hexanone	50	*NA*		-	*NA*		-	*NA*		-	ND		0.5
4-Chlorotoluene	5	ND		5	ND		5	ND		5	*NA*		-
4-Methyl-2-pentanone	NE	*NA*		-	*NA*		-	*NA*		-	2		0.5
Acetone	50	ND		10	ND		10	7		5	ND		2
Benzene	1	ND		5	ND		5	ND		5	ND		0.5
Bromobenzene	5	ND		5	ND		5	ND		5	*NA*		-
Bromochloromethane	5	ND		5	ND		5	ND		5	ND		0.5
Bromodichloromethane	50	ND		5	ND		5	ND		5	ND		0.5
Bromoform	50	ND		5	ND		5	ND		5	ND		0.5
Bromomethane	5	ND		5	ND		5	ND		5	ND		0.5
Carbon disulfide	NE	*NA*		-	*NA*		-	*NA*		-	ND		0.5
Carbon tetrachloride	5	ND		5	ND		5	ND		5	ND		0.5
Chlorobenzene	5	ND		5	ND		5	ND		5	ND		0.5
Chloroethane	5	ND		5	ND		5	ND		5	ND		0.5
Chloroform	7	ND		5	ND		5	ND		5	ND		0.5
Chloromethane	5	ND		5	ND		5	ND		5	ND		0.5
cis-1,2-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		0.5
cis-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		5	ND		0.5
Cyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	ND		0.5
Dibromochloromethane	5	ND		5	ND		5	ND		5	ND		0.5
Dibromomethane	5	ND		5	ND		5	ND		5	*NA*		-
Dichlorodifluoromethane	5	ND		5	ND		5	ND		5	ND		0.5
Ethyl Benzene	5	ND		5	ND		5	ND		5	ND		0.5
Hexachlorobutadiene	0.5	ND		5	ND		5	ND		5	*NA*		-
Isopropylbenzene	5	ND		5	ND		5	ND		5	ND		0.5
Methyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	ND		0.5
Methyl tert-butyl ether (MTBE)	10	ND		5	ND		5	ND		5	ND		0.5
Methylcyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	ND		0.5
Methylene chloride	5	ND		10	ND		10	ND		5	4.4	B	2
Naphthalene	10	ND		5	ND		5	ND		5	*NA*		-
n-Butylbenzene	5	ND		6	ND		6	ND		6	*NA*		-
n-Propylbenzene	5	ND		7	ND		7	ND		7	*NA*		-
o-Xylene	5	ND		5	ND		5	ND		5	ND		0.5
p- & m- Xylenes	5	ND		10	ND		10	ND		10	ND		1
p-Isopropyltoluene	5	ND		5	ND		5	ND		5	*NA*		-
sec-Butylbenzene	5	ND		5	ND		5	ND		5	*NA*		-
Styrene	5	ND		5	ND		5	ND		5	ND		0.5
tert-Butylbenzene	5	ND		5	ND		5	ND		5	*NA*		-
Tetrachloroethylene	5	ND		5	ND		5	ND		5	ND		0.5
Toluene	5	ND		5	ND		5	ND		5	ND		0.5
trans-1,2-Dichloroethylene	5	ND		5	ND		5	ND		5	ND		0.5
trans-1,3-Dichloropropylene	0.4	ND		5	ND		5	ND		5	ND		0.5
Trichloroethylene	5	ND		5	ND		5	ND		5	ND		0.5
Trichlorofluoromethane	5	ND		5	ND		5	ND		5	ND		0.5
Vinyl acetate	NE	ND		5	ND		5	ND		5	*NA*		-
Vinyl chloride	2	ND		5	ND		5	ND		5	ND		0.5
Xylenes, Total	5	ND		15	ND		15	ND		15	ND		1.5
Total TICs	NE	ND		-	*NA*		-	ND		-	97		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	Trip Blank (2014-07-30)			Trip Blank (2014-09-22)			Trip Blank (2014-09-23)			Trip Blank (2014-09-24)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,1,1-Trichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1,2,2-Tetrachloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1,2-Trichloroethane	1	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloropropylene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichloropropane	0.04	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,2,4-Trichlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromo-3-chloropropane	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromoethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichlorobenzene	3	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,2-Dichloroethane	0.6	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloropropane	1	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3,5-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3-Dichlorobenzene	3	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,3-Dichloropropane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,4-Dichlorobenzene	3	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,4-Dioxane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2,2-Dichloropropane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2-Butanone	50	ND		2.5	ND		2.5	ND		2.5	ND		2.5
2-Chlorotoluene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2-Hexanone	50	ND		2.5	ND		2.5	ND		2.5	ND		2.5
4-Chlorotoluene	5	ND		2.5	ND			ND			ND		
4-Methyl-2-pentanone	NE	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Acetone	50	4.7		2.5	ND		5	ND		5	ND		5
Benzene	1	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromobenzene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Bromochloromethane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Bromodichloromethane	50	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromoform	50	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromomethane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Carbon disulfide	NE	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Carbon tetrachloride	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Chlorobenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloroethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloroform	7	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Chloromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
cis-1,2-Dichloroethylene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
cis-1,3-Dichloropropylene	0.4	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Cyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Dibromochloromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Dibromomethane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Dichlorodifluoromethane	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Ethyl Benzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Hexachlorobutadiene	0.5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Isopropylbenzene	5	ND		5	ND		2.5	ND		2.5	ND		2.5
Methyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Methylcyclohexane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Methylene chloride	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Naphthalene	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Propylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Xylene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p- & m- Xylenes	5	ND		2.5	ND		5	ND		5	ND		5
p-Isopropyltoluene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
sec-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Styrene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
tert-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Tetrachloroethylene	5	ND		5	ND		2.5	ND		2.5	ND		2.5
Toluene	5	ND		5	ND		2.5	ND		2.5	ND		2.5
trans-1,2-Dichloroethylene	5	ND		5	ND		2.5	ND		2.5	ND		2.5
trans-1,3-Dichloropropylene	0.4	ND		5	ND		2.5	ND		2.5	ND		2.5
Trichloroethylene	5	ND		5	ND		2.5	ND		2.5	ND		2.5
Trichlorofluoromethane	5	ND		5	ND		2.5	ND		2.5	ND		2.5
Vinyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Vinyl chloride	2	ND		5	ND		2.5	ND		2.5	ND		2.5
Xylenes, Total	5	ND		5	ND		7.5	ND		7.5	ND		7.5
Total TICs	NE	ND		-	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 10: Water - VOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

VOCs (USEPA Method 8260)	Guidance Level	Trip Blank (2014-10-08)			Trip Blank (2014-10-09)			Trip Blank (2014-12-10)			Trip Blank (2014-12-23)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
1,1,1,2-Tetrachloroethane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,1,1-Trichloroethane	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
1,1,2,2-Tetrachloroethane	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
1,1,2-Trichloroethane	1	ND		0.2	ND		0.2	ND		2.5	ND		2.5
1,1-Dichloroethane	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
1,1-Dichloroethylene	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
1,1-Dichloropropylene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,2,3-Trichlorobenzene	5	ND		0.2	ND		0.2	*NA*		-	*NA*		-
1,2,3-Trichloropropane	0.04	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,2,4-Trichlorobenzene	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
1,2,4-Trimethylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
1,2-Dibromo-3-chloropropane	0.04	ND		0.2	ND		0.2	ND		2.5	ND		2.5
1,2-Dibromoethane	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
1,2-Dichlorobenzene	3	ND		0.2	ND		0.2	*NA*		-	*NA*		-
1,2-Dichloroethane	0.6	ND		0.2	ND		0.2	ND		2.5	ND		2.5
1,2-Dichloropropane	1	ND		0.2	ND		0.2	ND		2.5	ND		2.5
1,3,5-Trimethylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
1,3-Dichlorobenzene	3	ND		0.2	ND		0.2	*NA*		-	*NA*		-
1,3-Dichloropropane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
1,4-Dichlorobenzene	3	ND		0.2	ND		0.2	*NA*		-	*NA*		-
1,4-Dioxane	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2,2-Dichloropropane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2-Butanone	50	ND		0.2	ND		0.2	ND		5	ND		2.5
2-Chlorotoluene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
2-Hexanone	50	ND		0.2	ND		0.2	ND		2.5	ND		2.5
4-Chlorotoluene	5	ND			ND			ND			ND		
4-Methyl-2-pentanone	NE	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Acetone	50	ND		1	ND		0.2	ND		5	ND		5
Benzene	1	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Bromobenzene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Bromochloromethane	5	ND		0.2	ND		0.2	*NA*		-	*NA*		-
Bromodichloromethane	50	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Bromoform	50	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Bromomethane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Carbon disulfide	NE	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Carbon tetrachloride	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Chlorobenzene	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Chloroethane	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Chloroform	7	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Chloromethane	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
cis-1,2-Dichloroethylene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
cis-1,3-Dichloropropylene	0.4	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Cyclohexane	NE	ND		0.2	ND		0.2	*NA*		-	*NA*		-
Dibromochloromethane	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Dibromomethane	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Dichlorodifluoromethane	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Ethyl Benzene	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Hexachlorobutadiene	0.5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Isopropylbenzene	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Methyl acetate	NE	ND		0.2	ND		0.2	*NA*		-	*NA*		-
Methyl tert-butyl ether (MTBE)	10	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Methylcyclohexane	NE	ND		0.2	ND		0.2	*NA*		-	*NA*		-
Methylene chloride	5	ND		1	ND		1	ND		2.5	ND		2.5
Naphthalene	10	*NA*		-	*NA*		-	ND		2.5	ND		2.5
n-Butylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
n-Propylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
o-Xylene	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
p- & m- Xylenes	5	ND		0.5	ND		0.5	ND		5	ND		5
p-Isopropyltoluene	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
sec-Butylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
Styrene	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
tert-Butylbenzene	5	*NA*		-	*NA*		-	ND		2.5	ND		2.5
Tetrachloroethylene	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Toluene	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
trans-1,2-Dichloroethylene	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
trans-1,3-Dichloropropylene	0.4	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Trichloroethylene	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Trichlorofluoromethane	5	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Vinyl acetate	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Vinyl chloride	2	ND		0.2	ND		0.2	ND		2.5	ND		2.5
Xylenes, Total	5	ND		0.6	ND		0.6	ND		7.5	ND		7.5
Total TICs	NE	*NA*		-	*NA*		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 11: Water - SVOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

SVOCs (USEPA Method 8270)	Guidance Level	MW-3 (2010-02-15)			MW-3 (2012-04-25)			MW-3 (2013-11-25)			MW-10 (2010-02-15)		
		Result	Flag	RL	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	5	ND		5.13	ND		5	ND		5.13	ND		5.13
1,2-Dichlorobenzene	3	ND		5.13	ND		5	ND		5.13	ND		5.13
1,3-Dichlorobenzene	3	ND		5.13	ND		5	ND		5.13	ND		5.13
1,4-Dichlorobenzene	3	ND		5.13	ND		5	ND		5.13	ND		5.13
2,4,5-Trichlorophenol	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
2,4,6-Trichlorophenol	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
2,4-Dichlorophenol	5	ND		5.13	ND		5	ND		5.13	ND		5.13
2,4-Dimethylphenol	50	ND		5.13	ND		5	ND		5.13	ND		5.13
2,4-Dinitrophenol	10	ND		10.3	ND		10	ND		10.3	ND		10.3
2,4-Dinitrotoluene	5	ND		5.13	ND		5	ND		5.13	ND		5.13
2,6-Dinitrotoluene	5	ND		5.13	ND		5	ND		5.13	ND		5.13
2-Chloronaphthalene	10	ND		5.13	ND		5	ND		5.13	ND		5.13
2-Chlorophenol	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
2-Methylnaphthalene	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
2-Methylphenol	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
2-Nitroaniline	5	ND		5.13	ND		5	ND		5.13	ND		5.13
2-Nitrophenol	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
3- & 4-Methylphenols	NE	*NA*		-	ND		5	ND		5.13	*NA*		-
3,3'-Dichlorobenzidine	5	ND		5.13	ND		5	ND		5.13	ND		5.13
3-Nitroaniline	5	ND		5.13	ND		5	ND		5.13	ND		5.13
4,6-Dinitro-2-methylphenol	NE	ND		10.3	ND		10	ND		10.3	ND		10.3
4-Bromophenyl phenyl ether	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
4-Chloro-3-methylphenol	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
4-Chloroaniline	5	ND		5.13	ND		5	ND		5.13	ND		5.13
4-Chlorophenyl phenyl ether	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
4-Nitroaniline	5	ND		5.13	ND		5	ND		5.13	ND		5.13
4-Nitrophenol	5	ND		5.13	ND		5	ND		5.13	ND		5.13
Acenaphthene	20	ND		5.13	ND		5	ND		5.13	ND		5.13
Acenaphthylene	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
Aniline	5	ND		5.13	ND		5	*NA*		-	ND		5.13
Anthracene	50	ND		5.13	ND		5	ND		5.13	ND		5.13
Benzo(a)anthracene	0.002	ND		5.13	ND		5	ND		5.13	ND		5.13
Benzo(a)pyrene	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
Benzo(b)fluoranthene	0.002	ND		5.13	ND		5	ND		5.13	ND		5.13
Benzo(g,h,i)perylene	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
Benzo(k)fluoranthene	0.002	ND		5.13	ND		5	ND		5.13	ND		5.13
Benzoic acid	NE	ND		5.13	*NA*		-	ND		10.3	ND		5.13
Benzyl alcohol	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
Benzyl butyl phthalate	50	ND		5.13	ND		5	ND		5.13	ND		5.13
Bis(2-chloroethoxy)methane	5	ND		5.13	ND		5	ND		5.13	ND		5.13
Bis(2-chloroethyl)ether	1	ND		5.13	ND		5	ND		5.13	ND		5.13
Bis(2-chloroisopropyl)ether	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
Bis(2-ethylhexyl)phthalate	5	ND		5.13	**5.1**		5	ND		5.13	ND		5.13
Chrysene	0.002	ND		5.13	ND		5	ND		5.13	ND		5.13
Dibenzo(a,h)anthracene	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
Dibenzofuran	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
Diethyl phthalate	50	ND		5.13	ND		5	ND		5.13	ND		5.13
Dimethyl phthalate	50	ND		5.13	ND		5	ND		5.13	ND		5.13
Di-n-butyl phthalate	50	ND		5.13	ND		5	ND		5.13	ND		5.13
Di-n-octyl phthalate	50	ND		5.13	ND		5	ND		5.13	ND		5.13
Fluoranthene	50	ND		5.13	ND		5	ND		5.13	ND		5.13
Fluorene	50	ND		5.13	ND		5	ND		5.13	ND		5.13
Hexachlorobenzene	0.04	ND		5.13	ND		5	ND		5.13	ND		5.13
Hexachlorobutadiene	0.5	ND		5.13	ND		5	ND		5.13	ND		5.13
Hexachlorocyclopentadiene	5	ND		5.13	ND		5	ND		5.13	ND		5.13
Hexachloroethane	5	ND		5.13	ND		5	ND		5.13	ND		5.13
Indeno(1,2,3-cd)pyrene	0.002	ND		5.13	ND		5	ND		5.13	ND		5.13
Isophorone	50	ND		5.13	ND		5	ND		5.13	ND		5.13
Naphthalene	10	ND		5.13	ND		5	ND		5.13	ND		5.13
Nitrobenzene	0.4	ND		5.13	ND		5	ND		5.13	ND		5.13
N-Nitrosodimethylamine	50	ND		5.13	ND		5	*NA*		-	ND		5.13
N-nitroso-di-n-propylamine	NE	ND		5.13	ND		5	ND		5.13	ND		5.13
N-Nitrosodiphenylamine	50	ND		5.13	ND		5	ND		5.13	ND		5.13
Pentachlorophenol	1	ND		5.13	ND		5	ND		5.13	ND		5.13
Phenanthrene	50	ND		5.13	ND		5	ND		5.13	ND		5.13
Phenol	1	ND		5.13	ND		5	ND		5.13	ND		5.13
Pyrene	50	ND		5.13	ND		5	ND		5.13	ND		5.13
Pyridine	50	ND		5.13	ND		5	*NA*		-	ND		5.13
Total TICs	NE	*NA*		-	*NA*		-	ND		5.13	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 11: Water - SVOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

SVOCs (USEPA Method 8270)	Guidance Level	MW-10 (2012-03-16)			MW-12 (2010-02-15)			MW-13 (2010-02-15)			MW-13 (2012-03-16)		
		Result	Flag	RL	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
1,2-Dichlorobenzene	3	ND		5.26	ND		5.13	ND		5.41	ND		5.41
1,3-Dichlorobenzene	3	ND		5.26	ND		5.13	ND		5.41	ND		5.41
1,4-Dichlorobenzene	3	ND		5.26	ND		5.13	ND		5.41	ND		5.41
2,4,5-Trichlorophenol	NE	*NA*		-	ND		5.13	ND		5.41	*NA*		-
2,4,6-Trichlorophenol	NE	*NA*		-	ND		5.13	ND		5.41	*NA*		-
2,4-Dichlorophenol	5	*NA*		-	ND		5.13	ND		5.41	*NA*		-
2,4-Dimethylphenol	50	*NA*		-	ND		5.13	ND		5.41	*NA*		-
2,4-Dinitrophenol	10	*NA*		-	ND		10.3	ND		10.8	*NA*		-
2,4-Dinitrotoluene	5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
2,6-Dinitrotoluene	5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
2-Chloronaphthalene	10	ND		5.26	ND		5.13	ND		5.41	ND		5.41
2-Chlorophenol	NE	*NA*		-	ND		5.13	ND		5.41	*NA*		-
2-Methylnaphthalene	NE	ND		5.26	ND		5.13	ND		5.41	ND		5.41
2-Methylphenol	NE	*NA*		-	ND		5.13	ND		5.41	*NA*		-
2-Nitroaniline	5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
2-Nitrophenol	NE	*NA*		-	ND		5.13	ND		5.41	*NA*		-
3- & 4-Methylphenols	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
3,3'-Dichlorobenzidine	5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
3-Nitroaniline	5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
4,6-Dinitro-2-methylphenol	NE	*NA*		-	ND		10.3	ND		10.8	*NA*		-
4-Bromophenyl phenyl ether	NE	ND		5.26	ND		5.13	ND		5.41	ND		5.41
4-Chloro-3-methylphenol	NE	*NA*		-	ND		5.13	ND		5.41	*NA*		-
4-Chloroaniline	5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
4-Chlorophenyl phenyl ether	NE	ND		5.26	ND		5.13	ND		5.41	ND		5.41
4-Nitroaniline	5	*NA*		-	ND		5.13	ND		5.41	*NA*		-
4-Nitrophenol	5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Acenaphthene	20	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Acenaphthylene	NE	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Aniline	5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Anthracene	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Benzo(a)anthracene	0.002	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Benzo(a)pyrene	NE	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Benzo(b)fluoranthene	0.002	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Benzo(g,h,i)perylene	NE	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Benzo(k)fluoranthene	0.002	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Benzoic acid	NE	*NA*		-	ND		5.13	ND		5.41	*NA*		-
Benzyl alcohol	NE	*NA*		-	ND		5.13	ND		5.41	*NA*		-
Benzyl butyl phthalate	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Bis(2-chloroethoxy)methane	5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Bis(2-chloroethyl)ether	1	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Bis(2-chloroisopropyl)ether	NE	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Bis(2-ethylhexyl)phthalate	5	**12.5**		5.26	ND		5.13	3.57	J	5.41	ND		5.41
Chrysene	0.002	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Dibenzo(a,h)anthracene	NE	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Dibenzofuran	NE	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Diethyl phthalate	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Dimethyl phthalate	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Di-n-butyl phthalate	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Di-n-octyl phthalate	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Fluoranthene	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Fluorene	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Hexachlorobenzene	0.04	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Hexachlorobutadiene	0.5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Hexachlorocyclopentadiene	5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Hexachloroethane	5	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Indeno(1,2,3-cd)pyrene	0.002	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Isophorone	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Naphthalene	10	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Nitrobenzene	0.4	ND		5.26	ND		5.13	ND		5.41	ND		5.41
N-Nitrosodimethylamine	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
N-nitroso-di-n-propylamine	NE	ND		5.26	ND		5.13	ND		5.41	ND		5.41
N-Nitrosodiphenylamine	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Pentachlorophenol	1	*NA*		-	ND		5.13	ND		5.41	*NA*		-
Phenanthrene	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Phenol	1	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Pyrene	50	ND		5.26	ND		5.13	ND		5.41	ND		5.41
Pyridine	50	*NA*		-	ND		5.13	ND		5.41	*NA*		-
Total TICs	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 11: Water - SVOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

SVOCs (USEPA Method 8270)	Guidance Level	MW-14 (2010-02-15)			MW-17 (2012-04-19)			MW-18 (2012-03-16)			MW-19 (2012-03-16)		
		Result	Flag	RL	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
1,2-Dichlorobenzene	3	ND		5.56	ND		5.13	ND		5.41	ND		5.13
1,3-Dichlorobenzene	3	ND		5.56	ND		5.13	ND		5.41	ND		5.13
1,4-Dichlorobenzene	3	ND		5.56	ND		5.13	ND		5.41	ND		5.13
2,4,5-Trichlorophenol	NE	ND		5.56	ND		5.13	*NA*		-	*NA*		-
2,4,6-Trichlorophenol	NE	ND		5.56	ND		5.13	*NA*		-	*NA*		-
2,4-Dichlorophenol	5	ND		5.56	ND		5.13	*NA*		-	*NA*		-
2,4-Dimethylphenol	50	ND		5.56	ND		5.13	*NA*		-	*NA*		-
2,4-Dinitrophenol	10	ND		11.1	ND		10.3	*NA*		-	*NA*		-
2,4-Dinitrotoluene	5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
2,6-Dinitrotoluene	5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
2-Chloronaphthalene	10	ND		5.56	ND		5.13	ND		5.41	ND		5.13
2-Chlorophenol	NE	ND		5.56	ND		5.13	*NA*		-	*NA*		-
2-Methylnaphthalene	NE	ND		5.56	ND		5.13	ND		5.41	ND		5.13
2-Methylphenol	NE	ND		5.56	ND		5.13	*NA*		-	*NA*		-
2-Nitroaniline	5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
2-Nitrophenol	NE	ND		5.56	ND		5.13	*NA*		-	*NA*		-
3- & 4-Methylphenols	NE	*NA*		-	ND		5.13	*NA*		-	*NA*		-
3,3'-Dichlorobenzidine	5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
3-Nitroaniline	5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
4,6-Dinitro-2-methylphenol	NE	ND		11.1	ND		10.3	*NA*		-	*NA*		-
4-Bromophenyl phenyl ether	NE	ND		5.56	ND		5.13	ND		5.41	ND		5.13
4-Chloro-3-methylphenol	NE	ND		5.56	ND		5.13	*NA*		-	*NA*		-
4-Chloroaniline	5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
4-Chlorophenyl phenyl ether	NE	ND		5.56	ND		5.13	ND		5.41	ND		5.13
4-Nitroaniline	5	ND		5.56	ND		5.13	*NA*		-	*NA*		-
4-Nitrophenol	5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Acenaphthene	20	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Acenaphthylene	NE	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Aniline	5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Anthracene	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Benzo(a)anthracene	0.002	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Benzo(a)pyrene	NE	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Benzo(b)fluoranthene	0.002	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Benzo(g,h,i)perylene	NE	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Benzo(k)fluoranthene	0.002	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Benzoic acid	NE	ND		5.56	*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	ND		5.56	ND		5.13	*NA*		-	*NA*		-
Benzyl butyl phthalate	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Bis(2-chloroethoxy)methane	5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Bis(2-chloroethyl)ether	1	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Bis(2-chloroisopropyl)ether	NE	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Bis(2-ethylhexyl)phthalate	5	ND		5.56	**10.8**		5.13	ND		5.41	**39.6**		5.13
Chrysene	0.002	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Dibenzo(a,h)anthracene	NE	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Dibenzofuran	NE	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Diethyl phthalate	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Dimethyl phthalate	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Di-n-butyl phthalate	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Di-n-octyl phthalate	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Fluoranthene	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Fluorene	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Hexachlorobenzene	0.04	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Hexachlorobutadiene	0.5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Hexachlorocyclopentadiene	5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Hexachloroethane	5	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Indeno(1,2,3-cd)pyrene	0.002	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Isophorone	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Naphthalene	10	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Nitrobenzene	0.4	ND		5.56	ND		5.13	ND		5.41	ND		5.13
N-Nitrosodimethylamine	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
N-nitroso-di-n-propylamine	NE	ND		5.56	ND		5.13	ND		5.41	ND		5.13
N-Nitrosodiphenylamine	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Pentachlorophenol	1	ND		5.56	ND		5.13	*NA*		-	*NA*		-
Phenanthrene	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Phenol	1	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Pyrene	50	ND		5.56	ND		5.13	ND		5.41	ND		5.13
Pyridine	50	ND		5.56	ND		5.13	*NA*		-	*NA*		-
Total TICs	NE	*NA*		-	*NA*		-	32		-	6		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 11: Water - SVOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

SVOCs (USEPA Method 8270)	Guidance Level	MW-22 (2012-03-16)			MW-23 (2012-09-24)			MW-24 (2012-09-24)			MW-27 (2012-09-28)		
		Result	Flag	RL	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
1,2-Dichlorobenzene	3	ND		5.13	ND		5.26	ND		5.41	ND		5.41
1,3-Dichlorobenzene	3	ND		5.13	ND		5.26	ND		5.41	ND		5.41
1,4-Dichlorobenzene	3	ND		5.13	ND		5.26	ND		5.41	ND		5.41
2,4,5-Trichlorophenol	NE	*NA*		-	ND		5.26	ND		5.41	ND		5.41
2,4,6-Trichlorophenol	NE	*NA*		-	ND		5.26	ND		5.41	ND		5.41
2,4-Dichlorophenol	5	*NA*		-	ND		5.26	ND		5.41	ND		5.41
2,4-Dimethylphenol	50	*NA*		-	ND		5.26	ND		5.41	ND		5.41
2,4-Dinitrophenol	10	*NA*		-	ND		10.5	ND		10.8	ND		10.8
2,4-Dinitrotoluene	5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
2,6-Dinitrotoluene	5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
2-Chloronaphthalene	10	ND		5.13	ND		5.26	ND		5.41	ND		5.41
2-Chlorophenol	NE	*NA*		-	ND		5.26	ND		5.41	ND		5.41
2-Methylnaphthalene	NE	ND		5.13	ND		5.26	ND		5.41	ND		5.41
2-Methylphenol	NE	*NA*		-	ND		5.26	ND		5.41	ND		5.41
2-Nitroaniline	5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
2-Nitrophenol	NE	*NA*		-	ND		5.26	ND		5.41	ND		5.41
3- & 4-Methylphenols	NE	*NA*		-	ND		5.26	ND		5.41	ND		5.41
3,3'-Dichlorobenzidine	5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
3-Nitroaniline	5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
4,6-Dinitro-2-methylphenol	NE	*NA*		-	ND		10.5	ND		10.8	ND		10.8
4-Bromophenyl phenyl ether	NE	ND		5.13	ND		5.26	ND		5.41	ND		5.41
4-Chloro-3-methylphenol	NE	*NA*		-	ND		5.26	ND		5.41	ND		5.41
4-Chloroaniline	5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
4-Chlorophenyl phenyl ether	NE	ND		5.13	ND		5.26	ND		5.41	ND		5.41
4-Nitroaniline	5	*NA*		-	ND		5.26	ND		5.41	ND		5.41
4-Nitrophenol	5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Acenaphthene	20	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Acenaphthylene	NE	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Aniline	5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Anthracene	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Benzo(a)anthracene	0.002	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Benzo(a)pyrene	NE	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Benzo(b)fluoranthene	0.002	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Benzo(g,h,i)perylene	NE	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Benzo(k)fluoranthene	0.002	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Benzoic acid	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	*NA*		-	ND		5.26	ND		5.41	ND		5.41
Benzyl butyl phthalate	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Bis(2-chloroethoxy)methane	5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Bis(2-chloroethyl)ether	1	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Bis(2-chloroisopropyl)ether	NE	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Bis(2-ethylhexyl)phthalate	5	**1,750**		5.13	**9.55**		5.26	ND		5.41	**12.6**		5.41
Chrysene	0.002	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Dibenzo(a,h)anthracene	NE	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Dibenzofuran	NE	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Diethyl phthalate	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Dimethyl phthalate	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Di-n-butyl phthalate	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Di-n-octyl phthalate	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Fluoranthene	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Fluorene	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Hexachlorobenzene	0.04	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Hexachlorobutadiene	0.5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Hexachlorocyclopentadiene	5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Hexachloroethane	5	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Indeno(1,2,3-cd)pyrene	0.002	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Isophorone	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Naphthalene	10	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Nitrobenzene	0.4	ND		5.13	ND		5.26	ND		5.41	ND		5.41
N-Nitrosodimethylamine	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
N-nitroso-di-n-propylamine	NE	ND		5.13	ND		5.26	ND		5.41	ND		5.41
N-Nitrosodiphenylamine	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Pentachlorophenol	1	*NA*		-	ND		5.26	ND		5.41	ND		5.41
Phenanthrene	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Phenol	1	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Pyrene	50	ND		5.13	ND		5.26	ND		5.41	ND		5.41
Pyridine	50	*NA*		-	ND		5.26	ND		5.41	ND		5.41
Total TICs	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 11: Water - SVOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

SVOCs (USEPA Method 8270)	Guidance Level	MW-28 (2013-08-16)			MW-29 (2013-08-16)			MW-30 (2013-08-16)			MW-31 (2013-08-16)		
		Result	Flag	RL	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
1,2-Dichlorobenzene	3	ND		5.26	ND		5.26	ND		5.26	ND		5.41
1,3-Dichlorobenzene	3	ND		5.26	ND		5.26	ND		5.26	ND		5.41
1,4-Dichlorobenzene	3	ND		5.26	ND		5.26	ND		5.26	ND		5.41
2,4,5-Trichlorophenol	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
2,4,6-Trichlorophenol	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
2,4-Dichlorophenol	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
2,4-Dimethylphenol	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
2,4-Dinitrophenol	10	ND		10.5	ND		10.5	ND		10.5	ND		10.8
2,4-Dinitrotoluene	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
2,6-Dinitrotoluene	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
2-Chloronaphthalene	10	ND		5.26	ND		5.26	ND		5.26	ND		5.41
2-Chlorophenol	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
2-Methylnaphthalene	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
2-Methylphenol	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
2-Nitroaniline	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
2-Nitrophenol	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
3- & 4-Methylphenols	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
3,3'-Dichlorobenzidine	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
3-Nitroaniline	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
4,6-Dinitro-2-methylphenol	NE	ND		10.5	ND		10.5	ND		10.5	ND		10.8
4-Bromophenyl phenyl ether	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
4-Chloro-3-methylphenol	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
4-Chloroaniline	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
4-Chlorophenyl phenyl ether	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
4-Nitroaniline	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
4-Nitrophenol	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Acenaphthene	20	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Acenaphthylene	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Aniline	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Anthracene	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Benzo(a)anthracene	0.002	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Benzo(a)pyrene	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Benzo(b)fluoranthene	0.002	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Benzo(g,h,i)perylene	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Benzo(k)fluoranthene	0.002	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Benzoic acid	NE	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Benzyl alcohol	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Benzyl butyl phthalate	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Bis(2-chloroethoxy)methane	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Bis(2-chloroethyl)ether	1	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Bis(2-chloroisopropyl)ether	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Bis(2-ethylhexyl)phthalate	5	ND		5.26	**209**	B	26.3	ND		26.3	ND		5.41
Chrysene	0.002	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Dibenzo(a,h)anthracene	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Dibenzofuran	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Diethyl phthalate	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Dimethyl phthalate	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Di-n-butyl phthalate	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Di-n-octyl phthalate	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Fluoranthene	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Fluorene	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Hexachlorobenzene	0.04	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Hexachlorobutadiene	0.5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Hexachlorocyclopentadiene	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Hexachloroethane	5	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Indeno(1,2,3-cd)pyrene	0.002	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Isophorone	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Naphthalene	10	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Nitrobenzene	0.4	ND		5.26	ND		5.26	ND		5.26	ND		5.41
N-Nitrosodimethylamine	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
N-nitroso-di-n-propylamine	NE	ND		5.26	ND		5.26	ND		5.26	ND		5.41
N-Nitrosodiphenylamine	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Pentachlorophenol	1	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Phenanthrene	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Phenol	1	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Pyrene	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Pyridine	50	ND		5.26	ND		5.26	ND		5.26	ND		5.41
Total TICs	NE	ND		-	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 11: Water - SVOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

SVOCs (USEPA Method 8270)	Guidance Level	MW-32 (2013-08-16)			MW-34 (2013-08-16)			MW-34 (2013-11-25)			MW-35 (2013-08-16)		
		Result	Flag	RL	Result	Flag	RL	Result	Flag	RL	Result	Flag	RL
1,2,4-Trichlorobenzene	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
1,2-Dichlorobenzene	3	ND		5.13	ND		5.13	ND		25.6	ND		5.13
1,3-Dichlorobenzene	3	ND		5.13	ND		5.13	ND		25.6	ND		5.13
1,4-Dichlorobenzene	3	ND		5.13	ND		5.13	ND		25.6	ND		5.13
2,4,5-Trichlorophenol	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
2,4,6-Trichlorophenol	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
2,4-Dichlorophenol	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
2,4-Dimethylphenol	50	ND		5.13	ND		5.13	ND		25.6	ND		5.13
2,4-Dinitrophenol	10	ND		10.3	ND		10.3	ND		51.3	ND		10.3
2,4-Dinitrotoluene	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
2,6-Dinitrotoluene	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
2-Chloronaphthalene	10	ND		5.13	ND		5.13	ND		25.6	ND		5.13
2-Chlorophenol	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
2-Methylnaphthalene	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
2-Methylphenol	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
2-Nitroaniline	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
2-Nitrophenol	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
3- & 4-Methylphenols	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
3,3'-Dichlorobenzidine	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
3-Nitroaniline	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
4,6-Dinitro-2-methylphenol	NE	ND		10.3	ND		10.3	ND		51.3	ND		10.3
4-Bromophenyl phenyl ether	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
4-Chloro-3-methylphenol	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
4-Chloroaniline	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
4-Chlorophenyl phenyl ether	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
4-Nitroaniline	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
4-Nitrophenol	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Acenaphthene	20	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Acenaphthylene	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Aniline	5	ND		5.13	ND		5.13	*NA*		-	ND		5.13
Anthracene	50	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Benzo(a)anthracene	0.002	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Benzo(a)pyrene	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Benzo(b)fluoranthene	0.002	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Benzo(g,h,i)perylene	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Benzo(k)fluoranthene	0.002	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Benzoic acid	NE	*NA*		-	*NA*		-	ND		51.3	*NA*		-
Benzyl alcohol	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Benzyl butyl phthalate	50	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Bis(2-chloroethoxy)methane	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Bis(2-chloroethyl)ether	1	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Bis(2-chloroisopropyl)ether	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Bis(2-ethylhexyl)phthalate	5	ND		5.13	ND		5.13	**59**		25.6	5.99	B	5.13
Chrysene	0.002	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Dibenzo(a,h)anthracene	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Dibenzofuran	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Diethyl phthalate	50	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Dimethyl phthalate	50	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Di-n-butyl phthalate	50	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Di-n-octyl phthalate	50	ND		5.13	6.51		5.13	**87.1**		25.6	ND		5.13
Fluoranthene	50	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Fluorene	50	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Hexachlorobenzene	0.04	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Hexachlorobutadiene	0.5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Hexachlorocyclopentadiene	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Hexachloroethane	5	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Indeno(1,2,3-cd)pyrene	0.002	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Isophorone	50	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Naphthalene	10	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Nitrobenzene	0.4	ND		5.13	ND		5.13	ND		25.6	ND		5.13
N-Nitrosodimethylamine	50	ND		5.13	ND		5.13	*NA*		-	ND		5.13
N-nitroso-di-n-propylamine	NE	ND		5.13	ND		5.13	ND		25.6	ND		5.13
N-Nitrosodiphenylamine	50	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Pentachlorophenol	1	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Phenanthrene	50	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Phenol	1	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Pyrene	50	ND		5.13	ND		5.13	ND		25.6	ND		5.13
Pyridine	50	ND		5.13	ND		5.13	*NA*		-	ND		5.13
Total TICs	NE	ND		-	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 11: Water - SVOCs

Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

SVOCs (USEPA Method 8270)	Guidance Level	MW-36 (2014-12-23)			MW-36A (2014-12-23)			MW-37 (2014-12-23)			MW-41 (2014-12-23)		
		Result	Flag	RL	Result	Flag	RL	Result	Flag	RL			
1,2,4-Trichlorobenzene	5	ND		5	ND		5	ND		5	ND		5
1,2-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,3-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
1,4-Dichlorobenzene	3	ND		5	ND		5	ND		5	ND		5
2,4,5-Trichlorophenol	NE	ND		5	ND		5	ND		5	ND		5
2,4,6-Trichlorophenol	NE	ND		5	ND		5	ND		5	ND		5
2,4-Dichlorophenol	5	ND		5	ND		5	ND		5	ND		5
2,4-Dimethylphenol	50	ND		5	ND		5	ND		5	ND		5
2,4-Dinitrophenol	10	ND		5	ND		5	ND		5	ND		5
2,4-Dinitrotoluene	5	ND		5	ND		5	ND		5	ND		5
2,6-Dinitrotoluene	5	ND		5	ND		5	ND		5	ND		5
2-Chloronaphthalene	10	ND		5	ND		5	ND		5	ND		5
2-Chlorophenol	NE	ND		5	ND		5	ND		5	ND		5
2-Methylnaphthalene	NE	ND		5	ND		5	ND		5	ND		5
2-Methylphenol	NE	ND		5	ND		5	ND		5	ND		5
2-Nitroaniline	5	ND		5	ND		5	ND		5	ND		5
2-Nitrophenol	NE	ND		5	ND		5	ND		5	ND		5
3- & 4-Methylphenols	NE	ND		5	ND		5	ND		5	ND		5
3,3'-Dichlorobenzidine	5	ND		5	ND		5	ND		5	ND		5
3-Nitroaniline	5	ND		5	ND		5	ND		5	ND		5
4,6-Dinitro-2-methylphenol	NE	ND		5	ND		5	ND		5	ND		5
4-Bromophenyl phenyl ether	NE	ND		5	ND		5	ND		5	ND		5
4-Chloro-3-methylphenol	NE	ND		5	ND		5	ND		5	ND		5
4-Chloroaniline	5	ND		5	ND		5	ND		5	ND		5
4-Chlorophenyl phenyl ether	NE	ND		5	ND		5	ND		5	ND		5
4-Nitroaniline	5	ND		5	ND		5	ND		5	ND		5
4-Nitrophenol	5	ND		5	ND		5	ND		5	ND		5
Acenaphthene	20	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Acenaphthylene	NE	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Aniline	5	*NA*		-	*NA*		-	*NA*		-	*NA*		-
Anthracene	50	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Benzo(a)anthracene	0.002	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Benzo(a)pyrene	NE	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Benzo(b)fluoranthene	0.002	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Benzo(g,h,i)perylene	NE	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Benzo(k)fluoranthene	0.002	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Benzoic acid	NE	ND		50	ND		50	ND		50	ND		50
Benzyl alcohol	NE	ND		5	ND		5	ND		5	ND		5
Benzyl butyl phthalate	50	ND		5	ND		5	ND		5	ND		5
Bis(2-chloroethoxy)methane	5	ND		5	ND		5	ND		5	ND		5
Bis(2-chloroethyl)ether	1	ND		5	ND		5	ND		5	ND		5
Bis(2-chloroisopropyl)ether	NE	ND		5	ND		5	ND		5	ND		5
Bis(2-ethylhexyl)phthalate	5	1.25		0.5	1.07		0.5	**15**		5	1.27		0.5
Chrysene	0.002	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Dibenzo(a,h)anthracene	NE	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Dibenzofuran	NE	ND		5	ND		5	ND		5	ND		5
Diethyl phthalate	50	ND		5	ND		5	ND		5	ND		5
Dimethyl phthalate	50	ND		5	ND		5	ND		5	ND		5
Di-n-butyl phthalate	50	ND		5	ND		5	ND		5	ND		5
Di-n-octyl phthalate	50	ND		5	ND		5	ND		5	ND		5
Fluoranthene	50	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Fluorene	50	ND		0.05	ND		0.05	ND		0.28	ND		0.05
Hexachlorobenzene	0.04	ND		0.02	ND		0.02	ND		0.02	ND		0.02
Hexachlorobutadiene	0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Hexachlorocyclopentadiene	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Hexachloroethane	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Indeno(1,2,3-cd)pyrene	0.002	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Isophorone	50	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Naphthalene	10	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Nitrobenzene	0.4	ND		0.25	ND		0.25	ND		0.25	ND		0.25
N-Nitrosodimethylamine	50	ND		-	ND		-	ND		-	ND		-
N-nitroso-di-n-propylamine	NE	ND		2.5	ND		2.5	ND		2.5	ND		2.5
N-Nitrosodiphenylamine	50	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Pentachlorophenol	1	ND		0.25	ND		0.25	ND		0.25	ND		0.25
Phenanthrene	50	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Phenol	1	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Pyrene	50	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Pyridine	50	ND		-	ND		-	ND		-	ND		-
Total TICs	NE	ND		-	ND		-	ND		-	ND		-

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 12: Water - Metals
Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

TAL Metals (Various Methods)	Guidance Level	MW-3 (2013-11-25)			MW-13 (2012-03-16)			MW-13 (2012-04-25)			MW-18 (2012-03-16)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
Aluminum	NE	ND		0.01	2.67		0.01	1.92		0.01	3.43		0.01
Antimony	0.003	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Arsenic	0.025	ND		0.004	ND		0.01	ND		0.01	ND		0.01
Barium	1	0.033		0.01	0.033		0.01	0.04		0.01	0.25		0.01
Beryllium	0.003	ND		0.001	ND		0.001	ND		0.001	ND		0.001
Cadmium	0.005	ND		0.003	ND		0.003	ND		0.003	ND		0.003
Calcium	NE	93.3		0.05	9.94		0.02	10.3		0.02	113		0.02
Chromium	0.05	0.025		0.005	0.006		0.005	ND		0.005	0.019		0.005
Cobalt	0.005	ND		0.005	ND		0.005	ND		0.005	0.005		0.005
Copper	0.2	ND		0.003	0.017		0.005	0.01		0.005	0.034		0.005
Iron	0.3*	ND		0.02	**8.84**	B	0.01	**5.8**		0.01	**9.93**	B	0.01
Lead	0.025	ND		0.003	0.01		0.003	0.01		0.003	0.005		0.003
Magnesium	35	**39.4**		0.05	2.3		0.02	2.04		0.02	**46.3**		0.02
Manganese	0.3*	0.038		0.005	0.352		0.005	0.232		0.005	1.62		0.005
Mercury	0.0007	ND		0.0002	ND		0.0002	ND		0.0002	ND		0.0002
Nickel	0.1	ND		0.005	0.008		0.005	ND		0.005	0.013		0.005
Potassium	NE	5.55		0.05	1.75		0.05	1.52		0.05	8.48		0.05
Selenium	0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Silver	0.05	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Sodium	20	**41.2**		0.1	**105**		0.1	**109**		0.1	**80.6**		0.1
Thallium	0.0005	ND		0.005	ND		0.01	ND		0.01	ND		0.01
Vanadium	0.014	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Zinc	2	ND		0.01	0.1		0.02	0.116		0.02	0.06		0.02

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 12: Water - Metals
Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

TAL Metals (Various Methods)	Guidance Level	MW-22 (2012-04-25)			MW-23 (2012-09-24)			MW-24 (2012-09-24)			MW-27 (2012-09-28)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
Aluminum	NE	ND		0.01	0.102		0.01	0.055		0.01	0.066		0.01
Antimony	0.003	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Arsenic	0.025	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Barium	1	0.098		0.01	0.063		0.01	0.047		0.01	0.088		0.01
Beryllium	0.003	ND		0.001	ND		0.001	ND		0.001	ND		0.001
Cadmium	0.005	ND		0.003	ND		0.003	ND		0.003	ND		0.003
Calcium	NE	106		0.02	104		0.02	47.3		0.02	65.1		0.02
Chromium	0.05	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Cobalt	0.005	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Copper	0.2	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Iron	0.3*	**9.38**		0.01	0.214		0.01	0.159		0.01	0.151		0.01
Lead	0.025	ND		0.003	0.015		0.003	ND		0.003	ND		0.003
Magnesium	35	24.1		0.02	**45.2**	B	0.02	8.11	B	0.02	16.8		0.02
Manganese	0.3*	3.58		0.005	0.044		0.005	1.2		0.005	0.17		0.005
Mercury	0.0007	ND		0.0002	ND		0.0002	ND		0.0002	ND		0.0002
Nickel	0.1	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Potassium	NE	4.45		0.05	3.64		0.05	3.32		0.05	5.41		0.05
Selenium	0.01	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Silver	0.05	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Sodium	20	**311**		0.1	**47.3**		0.1	**178**		0.1	**34.9**		0.1
Thallium	0.0005	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Vanadium	0.014	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Zinc	2	ND		0.02	ND		0.02	ND		0.02	ND		0.02

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 12: Water - Metals
Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

TAL Metals (Various Methods)	Guidance Level	MW-28 (2013-08-16)			MW-29 (2013-08-16)			MW-30 (2013-08-16)			MW-31 (2013-08-16)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
Aluminum	NE	0.031		0.01	ND		0.01	0.088		0.01	ND		0.01
Antimony	0.003	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Arsenic	0.025	ND		0.004	ND		0.004	ND		0.004	ND		0.004
Barium	1	0.092		0.01	0.096		0.01	0.029		0.01	0.105		0.01
Beryllium	0.003	ND		0.001	ND		0.001	ND		0.001	ND		0.001
Cadmium	0.005	ND		0.003	ND		0.003	ND		0.003	ND		0.003
Calcium	NE	109		0.05	128		0.05	41		0.05	95.2		0.05
Chromium	0.05	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Cobalt	0.005	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Copper	0.2	0.005		0.003	ND		0.003	ND		0.003	ND		0.003
Iron	0.3*	0.041		0.02	**8.72**		0.02	0.11		0.02	0.052		0.02
Lead	0.025	ND		0.003	ND		0.003	ND		0.003	ND		0.003
Magnesium	35	34.7		0.05	**55.2**		0.05	6.01		0.05	25.8		0.05
Manganese	0.3*	0.071		0.005	0.647		0.005	0.173		0.005	0.138		0.005
Mercury	0.0007	ND		0.05	ND		0.05	ND		0.05	ND		0.05
Nickel	0.1	ND		0.005	ND		0.005	ND		0.005	0.018		0.005
Potassium	NE	6.58		0.05	5.28		0.05	2.62		0.05	2.7		0.05
Selenium	0.01	0.011		0.01	ND		0.01	ND		0.01	ND		0.01
Silver	0.05	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Sodium	20	**153**		0.1	**53.6**		0.1	**137**		0.1	**63.4**		0.1
Thallium	0.0005	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Vanadium	0.014	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Zinc	2	ND		0.01	ND		0.01	ND		0.01	ND		0.01

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 12: Water - Metals
Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

TAL Metals (Various Methods)	Guidance Level	MW-32 (2013-08-16)			MW-34 (2013-08-16)			MW-34 (2013-11-25)			MW-35 (2013-08-16)		
		Result	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*	*Result*	*Flag*	*RL*
Aluminum	NE	0.1		0.01	0.107		0.01	0.018		0.01	1.04		0.01
Antimony	0.003	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Arsenic	0.025	ND		0.004	ND		0.004	ND		0.004	ND		0.004
Barium	1	0.424		0.01	0.076		0.01	0.093		0.01	0.067		0.01
Beryllium	0.003	ND		0.001	ND		0.001	ND		0.001	ND		0.001
Cadmium	0.005	ND		0.003	ND		0.003	ND		0.003	ND		0.003
Calcium	NE	99.7		0.05	124		0.05	140		0.05	230		0.05
Chromium	0.05	ND		0.005	ND		0.005	ND		0.005	0.006		0.005
Cobalt	0.005	ND		0.005	0.007		0.005	ND		0.005	0.009		0.005
Copper	0.2	ND		0.003	ND		0.003	ND		0.003	ND		0.003
Iron	0.3*	**31.9**		0.02	**1.61**		0.02	**0.899**		0.02	**2.92**		0.02
Lead	0.025	ND		0.003	0.003		0.003	ND		0.003	0.004		0.003
Magnesium	35	25.4		0.05	21.2		0.05	24.5		0.05	**80.1**		0.05
Manganese	0.3*	1.98		0.005	5.7		0.005	4.32		0.005	3.75		0.005
Mercury	0.0007	ND		0.05	ND		0.05	ND		0.0002	ND		0.05
Nickel	0.1	ND		0.005	0.011		0.005	0.006		0.005	0.017		0.005
Potassium	NE	4.32		0.05	8.22		0.05	5.95		0.05	7.74		0.05
Selenium	0.01	ND		0.01	0.01		0.01	0.016		0.01	ND		0.01
Silver	0.05	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Sodium	20	**135**		0.1	**168**		0.1	**160**		0.1	**72.7**		0.1
Thallium	0.0005	ND		0.005	ND		0.005	ND		0.005	ND		0.005
Vanadium	0.014	ND		0.01	ND		0.01	ND		0.01	ND		0.01
Zinc	2	ND		0.01	ND		0.01	ND		0.01	0.07		0.01

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 12: Water - Metals
Data in µg/L
Guidance: NYSDEC TOGS 1.1.1
Elevated concentrations in **Bold**

Ecosystems Strategies, Inc.

SB09110 RIR

TAL Metals (Various Methods)	Guidance Level	Rinse Blank (2012-02-02)		
		Result	*Flag*	*RL*
Aluminum	NE	ND		0.01
Antimony	0.003	ND		0.005
Arsenic	0.025	ND		0.01
Barium	1	ND		0.01
Beryllium	0.003	ND		0.001
Cadmium	0.005	ND		0.003
Calcium	NE	ND		0.02
Chromium	0.05	ND		0.005
Cobalt	0.005	ND		0.005
Copper	0.2	ND		0.005
Iron	0.3*	ND		0.01
Lead	0.025	ND		0.003
Magnesium	35	ND		0.02
Manganese	0.3*	ND		0.005
Mercury	0.0007	ND		0.0002
Nickel	0.1	ND		0.005
Potassium	NE	ND		0.05
Selenium	0.01	ND		0.01
Silver	0.05	ND		0.005
Sodium	20	0.14		0.1
Thallium	0.0005	ND		0.01
Vanadium	0.014	ND		0.01
Zinc	2	ND		0.02

RL = Reporting Limit ND = Not Detected NE = Not Established NA = Not Analyzed
Flags: J = Below RL B = Detected in laboratory blank
E = Estimated concentration

Table 13: Water - Detected VOC and SVOC TICs

Data in µg/L

Ecosystems Strategies, Inc.

SB09110

VOCs - TICs (USEPA Method 8260)	MW-4 (2012-03-16)		MW-10 (2012-03-16)		MW-18 (2012-03-16)		MW-21 (2012-03-16)	
	Result	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*
1,1-difluoro Ethane			7	JN	11	JN		
dimethylhexanone isomers	11	J						
ethyl 1-hexanol isomer							6,300	
ethyl hexanol isomer	5.5	J						
methy Heptanone isomers	13	J						
methyl Hexanone isomers	15	J						
methyl Pentane isomer								
Octamethyl cyclotetrasiloxane								
Octanone isomer	6.1	J						
sulfur dioxide			52	JN	67	JN		
Tetrahydrofuran	28	JN					200	
Undecane isomer							62	
Unknown							62	
Total TICs	78.6		59		78		6,624	

VOCs - TICs (USEPA Method 8260)	MW-22 (2012-03-16)		MW-23 (2012-09-24)		MW-35 (2013-08-16)		Trip Blank (2014-04-03)	
	Result	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*
1,1-difluoro Ethane	13	JN						
dimethylhexanone isomers								
ethyl 1-hexanol isomer							97	J
ethyl hexanol isomer								
methy Heptanone isomers								
methyl Hexanone isomers								
methyl Pentane isomer					6.7			
Octamethyl cyclotetrasiloxane			5.6	JN				
Octanone isomer								
sulfur dioxide	56	JN						
Tetrahydrofuran								
Undecane isomer								
Unknown								
Total TICs	69		5.6		6.7		97	

SVOCs - TICs (USEPA Method 8270)	MW-18 (2012-03-16)		MW-18 (2012-03-16)		MW-18 (2012-03-16)		MW-19 (2012-04-19)	
	Result	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*
methyl Heptanol isomer	27	JN	27	JN	27	JN		
triphenyphosphine oxide	5	JN	5	JN	5	JN	6	JN
Total TICs	32		32		32		6	

SVOCs - TICs (USEPA Method 8270)	MW-42 (2014-12-23)	
	Result	*Flag*
tetramethylurea	4.96	
Total TICs	4.96	

Flags: JN = Possible analyte or class of analyte tentatively identified at an estimated concentration.

Table 14: Summary of Sample Collection and Laboratory Submission

Ecosystems Strategies, Inc.

SB09110 RIR

SOIL	Quantity
Soil Borings Installed	61
Converted to Monitoring Wells	24
Total Samples Submitted	**86**
Breakdown by Sample Analysis Grouping	**Number of Samples**
VOCs, SVOCs, TAL metals	14
VOCs, SVOCs	27
SVOCs, TAL metals	1
VOCs	31
SVOCs	6
SVOCs (base-neutral)	7
Breakdown by Analyte Category	**Number of Samples**
VOCs	72
SVOCs	55
TAL metals	15
VOC Tics	40
SVOC TICs	26

GROUNDWATER	Quantity
New Monitoring Wells Installed	25
New and Existing Wells Sampled	30
Total Samples Submitted	**45**
Breakdown by Sample Analysis Grouping	**Number of Samples**
VOCs, SVOCs, TAL metals	13
VOCs, SVOCs	13
SVOCs, TAL metals	1
VOCs, TAL metals	1
TAL metals	1
VOCs	15
SVOCs	1
Breakdown by Analyte Category	**Number of Samples**
VOCs	42
SVOCs	28
TAL metals	16
VOC Tics	35
SVOC TICs	15

USEPA Laboratory Methods: VOCs (soil/water) - 8260, VOCs (air) - TO-15, SVOCs - 8270, TAL Metals - 6010/7471

Table 15: LNAPL - Historical Gauging Data

Data recorded using an oil/water interface probe, unit of measure = foot.
All depth measurements from top of PVC well casing.

Ecosystems Strategies, Inc.

SB09110 RIR June 2015

Well ID	May-15	Apr-15	Mar-15	Jan-15	Sep-14
MW – 4	0.44	—	0.56	—	1.75
MW – 5	2.41	2.55	3.1	4.4	4.79
MW – 6	##	##	##	##	##
MW – 7	ND	1.94	1.79	##	2.01
MW – 8	ND	ND	ND	—	ND
MW – 12	ND	ND	ND	—	ND
MW – 13	ND	ND	ND	—	ND
MW – 14	ND	ND	ND	ND	ND
MW – 15	1.21	1.56	1.67	1.71	2.19
MW – 16	0.15	0.03	0.08	0.02	—
MW – 20	2.79	3.84	4.38	5.13	1.87
MW – 21	2.77	2.98	3.46	3.23	3.62
MW – 22	0.84	0.74	1.33	1.27	1.03
MW – 23	ND	ND	ND	ND	ND
MW – 24	ND	ND	ND	ND	ND
MW – 25	3.24	3.36	1.07	1.03	3.16
MW – 26	3.33	3.64	4.14	4.11	3.84
MW – 27	ND	ND	ND	ND	ND
MW – 28	ND	ND	ND	ND	ND
MW – 29	ND	ND	ND	ND	ND
MW – 30	ND	ND	ND	ND	ND
MW – 31	ND	ND	ND	ND	ND
MW – 32	ND	ND	ND	ND	ND
MW – 34	ND	ND	ND	ND	ND
MW – 35	ND	ND	ND	ND	ND
MW – 36	ND	ND	ND	ND	ND
MW – 37	ND	ND	ND	ND	ND
MW – 38	ND	ND	ND	—	ND
MW – 39	ND	ND	ND	ND	ND
MW – 40	ND	ND	ND	ND	ND
MW – 41	ND	ND	ND	ND	not installed
MW – 42	ND	ND	ND	ND	not installed
RW – 1	ND	ND	ND	ND	ND
RW – 2	5.44	2.82	4.19	4.52	4.52
RW – 3	2.23	1.81	3.28	3.41	3.5
RW – 4	3.53	3.53	1.43	1.35	2.78
RW – 5	4.75	0.7	0.85	0.91	0.85
RW – 6	2.35	0.71	1.19	1.14	0.71
RW – 8*	—	2.14	2.93	2.92	4.01
RW – 9	4.79	4.28	5.68	5.65	4.81
RW – 10	3.95	3.65	4.96	5.04	3.93
RW – 11	3.67	3	3.87	3.97	4.43
RW – 12*	—	—	—	—	—

Note: Data from March to May 2015 provided by FPM Group, LTD.

= LNAPL observed, depth not recorded — = Data not recorded est = Estimated value
* = Well equipped with automated product recovery system

IHWD ID: 224136

Table 15: LNAPL - Historical Gauging Data

Data recorded using an oil/water interface probe, unit of measure = foot.
All depth measurements from top of PVC well casing.

Ecosystems Strategies, Inc.

SB09110 RIR June 2015

Well ID	Aug-14	Jul-14	Jun-14	Apr-14	Mar-14
MW – 4	1.9	1.24	Trace	0.01	ND
MW – 5	5.03	1.97	3.39	3.14	2.80
MW – 6	##	##	##	—	2.84
MW – 7	2.16	0.60	0.01	0.17	0.17
MW – 8	ND	ND	ND	ND	ND
MW – 12	—	ND	ND	ND	ND
MW – 13	—	ND	ND	ND	ND
MW – 14	ND	ND	ND	ND	ND
MW – 15	2.32	##	0.45	0.61	0.30
MW – 16	0.03	0.99	Trace	0.01	0.01
MW – 20	1.71	2.92	2.06	1.47	2.90
MW – 21	4.64	4.90	1.99	2.69	2.47
MW – 22	1.02	0.54	0.85	0.74	0.86
MW – 23	ND	ND	ND	ND	ND
MW – 24	ND	ND	ND	ND	ND
MW – 25	4.02	3.65	3.48	3.91	3.75
MW – 26	3.7	4.50	3.02	2.71	3.48
MW – 27	ND	ND	ND	ND	ND
MW – 28	ND	ND	ND	ND	ND
MW – 29	ND	ND	ND	ND	ND
MW – 30	ND	ND	ND	ND	ND
MW – 31	ND	ND	ND	ND	ND
MW – 32	ND	ND	ND	ND	ND
MW – 34	ND	ND	ND	ND	ND
MW – 35	ND	ND	ND	ND	ND
MW – 36	ND	not installed	not installed	not installed	not installed
MW – 37	ND	not installed	not installed	not installed	not installed
MW – 38	not installed	not installed	not installed	not installed	not installed
MW – 39	not installed	not installed	not installed	not installed	not installed
MW – 40	not installed	not installed	not installed	not installed	not installed
MW – 41	not installed	not installed	not installed	not installed	not installed
MW – 42	not installed	not installed	not installed	not installed	not installed
RW – 1	ND	ND	ND	ND	ND
RW – 2	4.53	4.52	0.11	1.30	3.05
RW – 3	3.45	3.56	4.12	1.58	2.90
RW – 4	2.88	##	2.86	1.81	3.25
RW – 5	0.43	0.17	0.17	0.12	0.93
RW – 6	0.64	0.78	0.79	0.45	1.28
RW – 8*	4.48	##	2.95	0.65	1.47
RW – 9	4.59	4.92	4.14	1.02	2.90
RW – 10	3.74	3.57	3.18	3.38	3.89
RW – 11	4.42	4.46	3.87	2.03	2.54
RW – 12*	—	—	—	—	—

Note: Data from Ma *Note: Data from March to May 2015 provided by FPM Group, LTD.*

= LNAPL observed, depth not recorded — = Data not recorded est = Estimated value
* = Well equipped with automated product recovery system

Table 15: LNAPL - Historical Gauging Data

Data recorded using an oil/water interface probe, unit of measure = foot.
All depth measurements from top of PVC well casing.

Ecosystems Strategies, Inc.

SB09110 RIR June 2015

Well ID	Feb-14	Jan-14	Dec-13	Nov-13	Oct-13
MW – 4	0.23	0.22	0.30	0.66	0.78
MW – 5	2.98	—	6.46	7.17	5.54
MW – 6	3.43	—	2.89	2.76	2.00
MW – 7	—	—	4.78	4.70	4.00
MW – 8	—	—	ND	ND	ND
MW – 12	—	—	ND	ND	ND
MW – 13	—	—	ND	ND	ND
MW – 14	—	—	ND	ND	ND
MW – 15	0.38	—	3.11	3.19	3.34
MW – 16	0.10	—	0.23	0.22	0.19
MW – 20	2.58	4.19	5.07	4.90	4.11
MW – 21	2.48	3.37	3.13	3.72	4.66
MW – 22	0.75	1.22	1.07	0.69	0.50
MW – 23	ND	ND	ND	ND	ND
MW – 24	—	—	ND	ND	ND
MW – 25	—	—	5.66	5.56	4.01
MW – 26	3.80	4.34	4.44	4.47	4.62
MW – 27	—	—	ND	ND	ND
MW – 28	ND	ND	ND	ND	ND
MW – 29	ND	ND	ND	ND	ND
MW – 30	—	—	ND	ND	ND
MW – 31	—	—	ND	ND	ND
MW – 32	—	—	ND	ND	ND
MW – 34	ND	ND	ND	ND	ND
MW – 35	ND	ND	ND	ND	ND
MW – 36	not installed	not installed	not installed	not installed	not installed
MW – 37	not installed	not installed	not installed	not installed	not installed
MW – 38	not installed	not installed	not installed	not installed	not installed
MW – 39	not installed	not installed	not installed	not installed	not installed
MW – 40	not installed	not installed	not installed	not installed	not installed
MW – 41	not installed	not installed	not installed	not installed	not installed
MW – 42	not installed	not installed	not installed	not installed	not installed
RW – 1	ND	ND	ND	ND	ND
RW – 2	2.31	2.80	3.19	5.09	3.86
RW – 3	2.28	4.60 (est)	3.60	3.33	1.68
RW – 4	3.27	2.45	2.67	2.30	1.46
RW – 5	0.43	0.52	0.60	0.79	0.54
RW – 6	0.96	0.41	0.94	1.30	0.67
RW – 8*	0.86	2.37	2.46	3.92	4.13
RW – 9	2.71	4.34	5.25	4.88	3.08
RW – 10	3.48	3.80	3.81	3.99	4.11
RW – 11	2.59	3.66	4.27	5.48	2.65
RW – 12*	—	—	—	—	—

Note: Data from Ma *Note: Data from March to May 2015 provided by FPM Group, LTD.*

= LNAPL observed, depth not recorded — = Data not recorded est = Estimated value
* = Well equipped with automated product recovery system

Table 15: LNAPL - Historical Gauging Data

Data recorded using an oil/water interface probe, unit of measure = foot.
All depth measurements from top of PVC well casing.

Ecosystems Strategies, Inc.

SB09110 RIR June 2015

Well ID	Sep-13	Aug-13	Jul-13	Apr-13	Mar-13
MW – 4	##	3.49	2.22	0.59	0.67
MW – 5	##	5.08	3.92	3.00	2.39
MW – 6	##	2.42	2.82	—	—
MW – 7	##	2.77	1.06	1.92	4.92
MW – 8	ND	ND	ND	ND	ND
MW – 12	ND	ND	ND	ND	ND
MW – 13	ND	ND	ND	ND	ND
MW – 14	ND	ND	ND	ND	ND
MW – 15	##	2.14	0.70	–	0.32
MW – 16	##	0.05	0.07	0.02	0.01
MW – 20	##	3.33	1.37	3.32	1.20
MW – 21	##	4.37	3.66	3.38	3.43
MW – 22	##	1.12	0.86	0.50	0.62
MW – 23	ND	ND	ND	ND	ND
MW – 24	ND	ND	ND	ND	ND
MW – 25	##	4.41	3.58	3.96	3.96
MW – 26	##	4.18	3.69	2.86	2.33
MW – 27	ND	ND	ND	ND	ND
MW – 28	ND	ND	ND	ND	ND
MW – 29	ND	ND	ND	ND	ND
MW – 30	ND	ND	not installed	not installed	not installed
MW – 31	ND	ND	not installed	not installed	not installed
MW – 32	ND	ND	not installed	not installed	not installed
MW – 34	ND	ND	not installed	not installed	not installed
MW – 35	ND	ND	not installed	not installed	not installed
MW – 36	not installed	not installed	not installed	not installed	not installed
MW – 37	not installed	not installed	not installed	not installed	not installed
MW – 38	not installed	not installed	not installed	not installed	not installed
MW – 39	not installed	not installed	not installed	not installed	not installed
MW – 40	not installed	not installed	not installed	not installed	not installed
MW – 41	not installed	not installed	not installed	not installed	not installed
MW – 42	not installed	not installed	not installed	not installed	not installed
RW – 1	ND	ND	ND	–	ND
RW – 2	##	4.07	2.96	2.92	3.48
RW – 3	##	2.96	1.44	3.90	3.20
RW – 4	##	2.75	1.08	3.06	3.15
RW – 5	##	0.69	0.51	2.62	—
RW – 6	##	0.10	0.08	0.45	0.50
RW – 8*	##	4.59	3.64	—	—
RW – 9	##	4.09	2.37	4.40	2.62
RW – 10	##	4.11	3.55	—	—
RW – 11	##	3.91	3.49	3.15	2.67
RW – 12*	—	—	—	—	—

Note: Data from Ma *Note: Data from March to May 2015 provided by FPM Group, LTD.*

= LNAPL observed, depth not recorded — = Data not recorded est = Estimated value
* = Well equipped with automated product recovery system

Table 15: LNAPL - Historical Gauging Data

Data recorded using an oil/water interface probe, unit of measure = foot.
All depth measurements from top of PVC well casing.

Ecosystems Strategies, Inc.

SB09110 RIR June 2015

Well ID	Feb-13	Jan-13	Dec-12	Nov-12	Oct-12
MW – 4	0.44	0.44	0.80	0.31	0.33
MW – 5	4.32	3.00	4.11	3.50	3.41
MW – 6	—	—	—	—	3.49
MW – 7	5.45	1.30	1.36	2.00	1.84
MW – 8	ND	ND	ND	ND	ND
MW – 12	ND	ND	ND	ND	ND
MW – 13	ND	ND	ND	ND	ND
MW – 14	ND	ND	ND	ND	ND
MW – 15	1.07	–	1.56	0.99	0.76
MW – 16	0.10	0.25	0.20	ND	0.24
MW – 20	1.10	1.35	1.38	3.39	3.15
MW – 21	3.75	4.10	4.23	2.89	2.04
MW – 22	1.15	1.20	0.18	0.21	0.18
MW – 23	ND	ND	ND	ND	ND
MW – 24	ND	ND	ND	ND	ND
MW – 25	4.34	3.70	2.82	7.86	4.40
MW – 26	1.00	2.45	1.62	–	2.61
MW – 27	ND	ND	ND	0.99	ND
MW – 28	ND	ND	not installed	not installed	not installed
MW – 29	ND	ND	not installed	not installed	not installed
MW – 30	not installed	not installed	not installed	not installed	not installed
MW – 31	not installed	not installed	not installed	not installed	not installed
MW – 32	not installed	not installed	not installed	not installed	not installed
MW – 34	not installed	not installed	not installed	not installed	not installed
MW – 35	not installed	not installed	not installed	not installed	not installed
MW – 36	not installed	not installed	not installed	not installed	not installed
MW – 37	not installed	not installed	not installed	not installed	not installed
MW – 38	not installed	not installed	not installed	not installed	not installed
MW – 39	not installed	not installed	not installed	not installed	not installed
MW – 40	not installed	not installed	not installed	not installed	not installed
MW – 41	not installed	not installed	not installed	not installed	not installed
MW – 42	not installed	not installed	not installed	not installed	not installed
RW – 1	ND	ND	ND	ND	ND
RW – 2	3.75	4.20	2.52	1.92	1.50
RW – 3	3.34	3.70	3.58	2.84	3.50
RW – 4	3.00	3.05	2.95	—	3.45
RW – 5	—	—	2.35	3.00	1.88
RW – 6	0.21	0.40	0.15	0.90	0.22
RW – 8*	—	—	—	—	—
RW – 9	3.11	3.50	3.08	3.83	2.98
RW – 10	—	—	—	—	—
RW – 11	3.11	3.50	2.93	4.49	2.58
RW – 12*	—	—	—	—	—

Note: Data from Ma *Note: Data from March to May 2015 provided by FPM Group, LTD.*

= LNAPL observed, depth not recorded — = Data not recorded est = Estimated value
* = Well equipped with automated product recovery system

APPENDIX C

Soil Boring Logs

Soil Boring Log

Ecosystems Strategies, Inc.

SB-60 *Interior* *E of RW-9*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE* *SB09110*
	DATE: 2012-02-01 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Overcast, windy, 50s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8") **SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Dark brown SAND (VT), over brown Silty SAND (F), likely fill	dry	0.0	ND	ND	ND	
4 – 8'	Reddish brown SAND (F) Field evidence of contamination starts at 7.5'	dry	0.8	Yes	Yes	ND	
8 – 12'	Reddish brown SAND (VT), NAPL at tip (12')	moist	1.0	Yes	Yes	Yes	
12 – 16'	SAND (C), NAPL 12' to 14' ****** Saturated at 14' *****	wet	0.0	Yes	Yes	Yes	**(12-14')**
16 – 20'	SAND (C), water with sheen	wet	0.0	ND	ND	ND	
	****** End of Boring at 20' *****						

Notes

Fill Materials

Likely fill from surface to approximately 4'

Field Evidence of Contamination

@7.5' – odors and staining begin
@ 12' to 14' – LNAPL saturated soil

Saturated Soils

Beneath LNAPL at 14''

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-60B *Interior* *E of RW-9*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File* *SB09110*
	DATE: 2012-02-13 DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8") / **SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Gray SAND (VT) with Gravel and trace Silt, likely fill	dry	0.0	ND	ND	ND	
2 – 4'	No recovery	---	---	---	---	---	
4 – 6'	Brown SAND (F-M) with Gravel, brown SILT, brown SAND (F)	dry	0.0	ND	ND	ND	
6 – 8'	Gray SILT with trace Sand (F)	dry	0.0	Yes	Yes	ND	**(6-8')**
8 – 10'	Brown SAND (F-M) with Gravel	moist	0.0	Yes	Yes	ND	**(8-10')**
10 – 12'	Gray and brown SAND (VF), trace Silt						
	****** End of Boring at 12' *****						

Notes

Fill Materials

Likely fill from surface to 2'

Field Evidence of Contamination

@ 6' to 12' – odors and gray staining

Saturated Soils

Not encountered

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-61 *Interior* *NE of RW-8*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File* *SB09110*
	DATE: 2012-02-01 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Overcast, windy, 50s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Black SAND (VT), yellowish brown SAND (F), likely fill	dry	0.0	ND	ND	ND	
4 – 8'	Yellowish brown SAND (VT) with rock fragments	dry	0.8	ND	ND	ND	
8 – 12'	Grayish brown SAND (VT), NAPL at 11.5 to 12'	moist	1.0	ND	ND	Yes	
12 – 16'	Grayish brown SAND (VT), NAPL 12 to 15' ****** Saturated at 15' ***** ****** End of Boring at 16' *****	wet	0.0	Yes	ND	Yes	**(12-14')**

Notes

Fill Materials

Likely fill from surface to approximately 16'

Field Evidence of Contamination

@ 11.5' to 15' – LNAPL saturated soil
@ 12' to 15' – slight odor

Saturated Soils

Beneath LNAPL at 15'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-62 *Interior WSW of RW-5*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110*
	DATE: 2012-02-01 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Overcast, windy, 50s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Refusal (on concrete), no recovery ****** End of Boring at approximately 3.5' *****	---	---	---	---	---	**none**

Notes

Field Evidence of Contamination

No evidence of contamination, based on no significant PID readings at borehole

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-63 *Interior SE of RW-6*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File SB09110*
	DATE: 2012-02-01 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Overcast, windy, 50s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Brown SAND (F-M) with gravel, ash, coal (?), trace wood, obvious fill	dry	1.0	Yes	ND	ND	
4 – 8'	Brown SAND (VT), perched water @4'	wet	0.0	Yes	ND	ND	
8 – 12'	Brown Sandy SILT, perched water @10'	wet	0.0	ND	ND	ND	
12 – 16'	Brown Sandy SILT ****** Saturated at 14' ***** ****** End of Boring at 16' *****	wet	0.0	Yes	ND	ND	**(12-14')**

Notes

Fill Materials

Fill from surface to approximately 4'

Field Evidence of Contamination

@ 12' to 16' – strong odor

Saturated Soils

@14', perched water @4' and @10'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-64 *Interior* *S of MW-4*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE* *SB09110*
	DATE: 2012-02-01 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Overcast, windy, 50s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Refusal (on concrete), no recovery ****** End of Boring at approximately 2" *****	---	---	---	---	---	**none**

Notes

Field Evidence of Contamination

No evidence of contamination, based on no significant PID readings at borehole

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-65 *Interior NW of MW-3*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File SB09110*
	DATE: 2012-04-19 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Clear, calm, 50-60s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Brown SAND (F-M)	dry	0.3	ND	ND	ND	
4 – 8'	Brown SAND (F-M)	dry	0.2	ND	ND	ND	
8 – 12'	Brown SAND (VT)	moist	0.2	ND	ND	ND	**(8-12')**
12 – 16'	Brown SAND (F) over Gray SAND (C), over Brown Sandy CLAY ****** Saturated at 14.5' ***** ****** End of Boring at 16' *****	wet	0.2	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Field Evidence of Contamination

None

Saturated Soils

@14.5'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-66 *Interior* *NE of MW-22*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File* *SB09110*
	DATE: 2012-04-19 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Clear, calm, 50-60s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Brown SAND (F)	dry	0.0	ND	ND	ND	
4 – 8'	Brown SAND (F)	moist	6.0	Yes	ND	ND	
8 – 12'	Brown SAND (F)	moist	2.1	Yes	ND	ND	
12 – 16'	Brown SAND (F) over Brown CLAY ****** Saturated at 15' ***** ****** End of Boring at 16' *****	wet	2.1	ND	Yes	ND	**(12-16')**

Notes

Fill Materials

Obvious fill not noted

Field Evidence of Contamination

@ 4' to 12' – odor
@ 12' to 16' – black staining

Saturated Soils

@ 15'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-67 *Building Interior* *ESE of RW-2*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE* *SB09110*
	DATE: 2012-02-02 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Clear to overcast, light wind, 40s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Black to Brown SAND (F, dense), likely fill	dry	0.0	ND	ND	ND	
4 – 8'	Gray-Green Silty SAND (F)	dry	0.6	Yes	ND	ND	
8 – 12'	Gray Silty SAND (VF)	moist	1.0	Yes	ND	ND	
12 – 16'	Gray SAND (F) over Gray SAND (C) ****** Saturated at 15' ***** ****** End of Boring at 16' *****	wet	0.0	Yes	ND	Yes	**(12-14')**

Notes

Fill Materials

Likely fill from surface to approximately 4'

Field Evidence of Contamination

@ 4' to 12' – odor
@ 14' to 15' – LNAPL

Saturated Soils

Beneath LNAPL at 15'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-68 *Building Interior, W of RW-3*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File SB09110*
	DATE: 2012-02-01 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Overcast, windy, 50s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Concrete and Brick fragments, obvious fill	dry	0.0	ND	ND	ND	
4 – 8'	No recovery	---	---	---	---	---	
8 – 12'	Gray-Brown SAND (C)	moist	0.0	Yes	ND	ND	
12 – 16'	Gray-Brown SAND (C) ****** Saturated at 15' ***** ****** End of Boring at 16' *****	wet	0.0	Yes	Yes	Yes	**(12-13.5')**

Notes

Fill Materials

Fill from surface to approximately 4'

Field Evidence of Contamination

@ 8' to 16' – odor
@ 13.5' to 14' – LNAPL

Saturated Soils

Beneath LNAPL at 14'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-69 *Interior NW of MW-35*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110*
	DATE: 2012-02-01 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Overcast, windy, 50s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8") **SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Brown SAND (F-M)	dry	0.0	ND	ND	ND	
4 – 8'	Brown SAND (F-M)	moist	0.0	ND	ND	ND	
8 – 12'	Brown to Tan SAND (F-M) ****** End of Boring at 12' *****	moist	0.0	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Field Evidence of Contamination

None

Saturated Soils

Not encountered

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-70 *Building Interior, dock E of IHWDS, W of MW-40* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2012-02-01 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Overcast, windy, 50s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8") **SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Refusal (on concrete), no recovery ****** End of Boring at approximately 2" *****	---	---	---	---	---	**none**

Notes

Field Evidence of Contamination

No evidence of contamination, based on no significant PID readings at borehole

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-72 *Franklin St sidewalk (W)*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110*
	DATE: 2012-02-10 DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)	
SHEET 1 OF 1	ESI STAFF: R. Hooker WEATHER: Clear, light wind, 30-40s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Brown SAND (VF) with trace Gravel and Silt	dry	0.0	ND	ND	ND	
2 – 4'	Brown SILT with Clay and Sand (VF)	dry	0.0	ND	ND	ND	
4 – 6'	Brown SILT with Sand (VF)	dry	0.0	ND	ND	ND	
6 – 8'	Brown Silty CLAY	dry	0.0	ND	ND	ND	
8 – 10'	Brown SAND (VF-F) with Gravel and Silt	moist	0.0	ND	ND	Yes	
10 – 12'	Brown SAND (VF) and SILT	moist	0.0	ND	Yes	Yes	
12 – 14'	Brown SAND (VF) and SILT ****** Saturated at 13', End of Boring at 14' *****	wet	0.0	ND	ND	ND	**(13')**

Notes

Fill Materials

Obvious fill not noted

Field Evidence of Contamination

@ 9' to 12' – NAPL, @ 12' odor

Saturated Soils

@ 13'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-73 *Franklin/Dupont St, sidewalk (NE)*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File SB09110*
	DATE: 2012-02-16 DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)	
SHEET 1 OF 1	ESI STAFF: R. Hooker WEATHER: Overcast, light wind, low-40s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	TOP SOIL, Brown SAND (VF-F) with Silt and Clay	dry	0.0	ND	ND	ND	
2 – 4'	Brown, Silty CLAY with trace Sand	dry	0.0	ND	ND	ND	
4 – 6'	Brown SAND (VF-F) with Silt	dry	0.0	ND	ND	ND	
6 – 8'	Brown CLAY and SILT with Sand (VF)	moist	0.0	ND	ND	ND	
8 – 10'	Brown SILT and SAND (VF) over Gray SAND (F-M) with trace Silt	wet	0.0	Yes	ND	ND	
10 – 12'	Brown and Gray SAND (F-M) with Gravel	moist	0.0	ND	ND	Yes	
12 – 14'	Brown and Gray SAND (F-M) with trace Sand (C) and Silt ****** Saturated at 13.5', End of Boring at 14' *****	wet	0.0	Yes	ND	ND	**(13.5')**

Notes

Fill Materials

Obvious fill not noted

Field Evidence of Contamination

@ 10' to 12' – NAPL, @ 9' and 13.5' odor

Saturated Soils

@ 9' perched, @13.5' saturated

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-74 *Clay Street, sidewalk (S)*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110*
	DATE: 2012-02-16	DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)
SHEET 1 OF 1	ESI STAFF: R. Hooker	WEATHER: Overcast, light wind, low-40s F

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Brown SAND (F-M) with Gravel, ash and brick (fill) over Brown SAND (F-M) with Silt	dry	0.0	ND	ND	ND	
2 – 4'	Brown SAND (F-M) with Gravel	dry	0.0	ND	ND	ND	
4 – 6'	Brown SILT with Sand (F) with trace wood	dry	0.0	ND	ND	ND	
6 – 8'	Brown SAND (VF) with Silt	dry	0.0	ND	ND	ND	
8 – 10'	Brown SAND (VF-M) with Gravel	wet	0.0	ND	ND	ND	
10 – 12'	Brown SILT with Sand (VF)	moist	0.0	ND	ND	ND	
12 – 14'	Brown SAND (VF) and SILT over Brown SILT with Sand (VF) ****** Saturated at 13', End of Boring at 14' *****	wet	0.0	ND	ND	ND	**(13')**

Notes

Fill Materials

Fill from surface to approximately 1.5'

Field Evidence of Contamination

none

Saturated Soils

@ 9.5' perched, @13' saturated

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-77A *Building Interior, loading dock E of IHWDS* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2012-02-01 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Overcast, windy, 50s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Brown SAND (F) with brick dust, Fill	dry	1.8	ND	ND	ND	
4 – 8'	Brown SAND (F-M)	dry	2.8	ND	ND	ND	
8 – 12'	Brown SAND (M) over Brown CLAY	moist	5.1	ND	ND	ND	
12 – 16'	Brown CLAY with Sand ****** End of Boring at 16' *****	moist	0.5	ND	ND	ND	

Notes

Fill Materials

Fill from surface to approximately 4'

Field Evidence of Contamination

Low level PID readings

Saturated Soils

Not encountered

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

SB-78A *Building Interior, loading dock E of IHWDS* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2012-02-01 DRILLER (RIG) Todd Syska (6620DT Geoprobe, 4' macro-core)	
	ESI STAFF: R. Hooker WEATHER: Overcast, windy, 50s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8") / **SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Brown SAND (M) with concrete dust, Fill	dry	0.2	ND	ND	ND	
4 – 8'	Brown SAND (M)	dry	0.2	ND	ND	ND	
8 – 12'	Brown CLAY, very firm	dry	0.2	ND	ND	ND	
12 – 16'	Brown CLAY with Sand, very firm ****** End of Boring at 16' *****	dry	0.0	ND	ND	ND	

Notes

Fill Materials

Fill from surface to approximately 4'

Field Evidence of Contamination

Low level PID readings

Saturated Soils

Not encountered

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-2 *Building Interior, E of MW-34*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110*
	DATE: 2013-08-01	DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)
(SHEET 1 OF 1)	ESI STAFF: A. Atkinson	WEATHER: Overcast to rain, light wind, low-70s F

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 5'	Brown SAND (M), concrete dust and rock fragments, Brown Sandy LOAM (Fill)	dry	0.0	ND	Yes	ND	**(0-5')**
5 – 10'	Brown SAND (F-M)	moist	0.0	ND	ND	ND	
10 – 15'	Brown Clayey SAND (F-M) ****** Saturated at 13' ***** ****** End of Boring at 15' *****	wet	0.0	ND	ND	ND	**(10-15')**

Notes

Fill Materials

Fill from surface to approximately 5'

Field Evidence of Contamination

@ 1.5' – Black staining

Saturated Soils

@ 13'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-3 *Building Interior, E of MW-34 N of MW-35*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110*
	DATE: 2013-08-01	DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)
(SHEET 1 OF 1)	ESI STAFF: A. Atkinson	WEATHER: Overcast to rain, light wind, low-70s F

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 5'	Brown SAND (M) (Fill)	dry	0.0	ND	Yes	ND	
5 – 10'	Brown SAND (M), concrete fragments (Fill)	moist	0.0	ND	ND	ND	
10 – 15'	Brown SAND (M) over Brown and Gray Silty CLAY ****** Saturated at 12' ***** ****** End of Boring at 15' *****	wet	0.0	ND	ND	ND	**(10-15')**

Notes

Fill Materials

Fill from surface to approximately 10'

Field Evidence of Contamination

@ 1.5' – Black staining

Saturated Soils

@ 12'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-4 *Building Interior, SE of MW-4, W of MW-35*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File SB09110*
	DATE: 2013-08-01 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
(SHEET 1 OF 1)	ESI STAFF: A. Atkinson WEATHER: Overcast to rain, light wind, low-70s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 5'	Brown SAND (M) (Fill?)	dry	0.0	ND	ND	ND	**(0-5')**
5 – 10'	Brown SAND (M)	moist	0.0	ND	ND	ND	
10 – 15'	Brown SAND (M) over Brown Silty CLAY ****** Saturated at 12' ***** ****** End of Boring at 15' *****	wet	0.0	ND	ND	ND	**(10-15')**

Notes

Fill Materials

Potential fill from surface to approximately 5'

Field Evidence of Contamination

None

Saturated Soils

@ 12'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-5 *Building Interior, W of MW-35* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136** *ESI FILE SB09110.55*						
	DATE: 2013-08-01	DRILLER (RIG)	Zebra (6620DT Geoprobe, 5' macro-core)				
	ESI STAFF: A. Atkinson	WEATHER:	Overcast to rain, light wind, low-70s F				
	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")						
BORING INTERVAL	**SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Gray and Black SAND (VT) (fill?) over Brown SAND (M)	dry	0.0	ND	ND	ND	
5 – 10'	Brown SAND (M)	moist	0.0	ND	ND	ND	
10 – 15'	Brown SAND (M) over Silty CLAY (14-15') ****** Saturated at 12' *****	wet	102	ND	ND	Yes	**(10-15')**
15 – 20'	Brown Silty CLAY over Brown SAND (M) (14-15') ****** End of Boring at 20' *****	wet	7.2	ND	ND	ND	

Notes

Fill Materials

Potential fill from surface to approximately 5'

Field Evidence of Contamination

@ 12' (groundwater interface) – Sheen and peak PID reading of 102

Saturated Soils

@ 12'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-6 *Building Interior, SW of MW-35* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2013-08-01 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: A. Atkinson WEATHER: Overcast to rain, light wind, low-70s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8") / **SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown SAND (M) (Fill?)	dry	0.0	ND	ND	ND	
5 – 10'	Brown SAND (M)	moist	0.0	ND	ND	ND	
10 – 15'	Reddish-Brown SAND (M) and Brown SAND (F) over Brown Silty CLAY ****** Saturated at 12' ***** ****** End of Boring at 15' *****	wet	0.0	ND	ND	ND	**(10-15')**

Notes

Fill Materials

Potential fill from surface to approximately 5'

Field Evidence of Contamination

None

Saturated Soils

@ 12'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-7 *Building Interior, S of MW-40* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136** *ESI FILE SB09110.55*						
	DATE: 2013-08-01	DRILLER (RIG)	Zebra (6620DT Geoprobe, 5' macro-core)				
	ESI STAFF: A. Atkinson	WEATHER:	Overcast to rain, light wind, low-70s F				
	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")						
BORING INTERVAL	**SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown SAND (M) (Fill?)	dry	0.0	ND	ND	ND	
5 – 10'	Brown SAND (M)	moist	0.0	ND	ND	ND	
10 – 15'	Brown SAND (M) over Brown Silty CLAY over lenses of Dark SAND (VT) and Gray Sandy CLAY ****** Saturated at 12' ***** ****** End of Boring at 15' *****	wet	0.0	ND	ND	ND	**(10-15')**

Notes

Fill Materials

Potential fill from surface to approximately 5'

Field Evidence of Contamination

None

Saturated Soils

@ 12'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-8 *Building Interior, S of MW-40* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136** *ESI FILE SB09110.55*						
	DATE: 2013-08-01	DRILLER (RIG)	Zebra (6620DT Geoprobe, 5' macro-core)				
	ESI STAFF: A. Atkinson	WEATHER:	Overcast to rain, light wind, low-70s F				
	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")						
BORING INTERVAL	**SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown SAND (M) (Fill?)	dry	0.0	ND	ND	ND	
5 – 10'	Brown SAND (M)	moist	0.0	ND	ND	ND	
10 – 15'	Brown SAND (M) over Brown Silty CLAY over lenses of Brown to Gray SAND (VT), SILT and Silty CLAY ****** Saturated at 12' ***** ****** End of Boring at 15' *****	wet	0.0	ND	ND	ND	**(10-15')**

Notes

Fill Materials

Potential fill from surface to approximately 5'

Field Evidence of Contamination

None

Saturated Soils

@ 12'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-10 *Building Interior SE of MW-19* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2013-08-01 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: A. Atkinson WEATHER: Overcast to rain, light wind, low-70s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8") **SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown SAND (C) with coal fragments over Brown SILT (Fill)	dry	0.0	ND	ND	ND	
5 – 10'	Brown SILT and SILTY CLAY over Gray SAND (VT) and Silty CLAY ****** Saturated at 6' ***** ****** End of Boring at 10' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Fill from surface to approximately 5'

Field Evidence of Contamination

None

Saturated Soils

@ 6'

OTHER

Boring completed to install soil vapor probe

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-11 *Building Interior, SW of MW-40* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2013-08-01 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: A. Atkinson WEATHER: Overcast to rain, light wind, low-70s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 5'	Brown SAND (M) (Fill?)	dry	0.0	ND	ND	ND	
5 – 10'	Brown SAND (M)	moist	0.0	ND	ND	ND	
10 – 15'	Reddish-Brown SAND (M) over Brown and Brownish-Gray Silty CLAY ****** End of Boring at 15' *****	moist	0.0	ND	ND	ND	**(10-15')**

Notes

Fill Materials

Potential fill from surface to approximately 5'

Field Evidence of Contamination

None

Saturated Soils

Not encountered

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-12 *Building Interior, E of MW-4* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2013-11-25 DRILLER (RIG) Manual borings, Geoprobe, 2' barrel ESI STAFF: A. Atkinson WEATHER: Clear, light wind, mid-20s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Brown SAND (F-M) ****** End of Boring at 2' *****	dry	0.0	ND	ND	ND	**(0-2')**

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

Not encountered

Field Evidence of Contamination

Not encountered

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-13 *Building Interior, SW of MW-4* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2013-11-25 DRILLER (RIG) Manual borings, Geoprobe, 2' barrel	
	ESI STAFF: A. Atkinson WEATHER: Clear, light wind, mid-20s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 2'	Brown SAND (F-M) ****** End of Boring at 2' *****	dry	0.0	ND	ND	ND	**(0-2')**

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

Not encountered

Field Evidence of Contamination

Not encountered

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-14 *Building Interior, NE of MW-34* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2013-11-25 DRILLER (RIG) Manual borings, Geoprobe, 2' barrel	
	ESI STAFF: A. Atkinson WEATHER: Clear, light wind, mid-20s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Brown SAND (F-M) ****** End of Boring at 2' *****	dry	0.0	ND	ND	ND	**(0-2')**

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

Not encountered

Field Evidence of Contamination

Not encountered

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

2SB-15 *Building Interior, NW of MW-34* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2013-11-25 DRILLER (RIG) Manual borings, Geoprobe, 2' barrel ESI STAFF: A. Atkinson WEATHER: Clear, light wind, mid-20s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Brown SAND (F-M) ****** End of Boring at 2' *****	dry	0.0	ND	ND	ND	**(0-2')**

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

Not encountered

Field Evidence of Contamination

Not encountered

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

3SB-3A *Clay Street, sidewalk (S)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-09-22 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Overcast, light wind, mid-60s F	

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown M SAND	dry	0.0	ND	ND	ND	**(0-5')**
5 – 10'	Brown SAND (M-C)	moist	0.0	ND	ND	ND	
10 – 15'	Brown SAND (M-C), some Brown CLAY below 11' ****** Saturated at 11' ***** ****** End of Boring at 15' (refusal)*****	wet	107	ND	ND	ND	**(10-15')**

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 11 - 15'

Field Evidence of Contamination

Elevated PID reading at groundwater interface, no other obvious contamination observed

OTHER

Located 2' west of MW-08, refusal at 15', offset 2' west to complete 3SB-03B

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

3SB-3B *Clay Street, sidewalk (S)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-09-22 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Overcast, light wind, mid-60s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE SIDEWALK (3-4") / **SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 15'	****** Push pre-probe rod to 15', no recovery *****	n/a	0.0	ND	n/a	n/a	
15 – 20'	Brown C SAND, Gravely, some Clayey	wet	18	ND	ND	ND	**(15-20')**
20 – 25'	(20-21.5') Brown M SAND, some Gravel	wet	0.0	ND	ND	ND	
	(21.5-25') Red and Gray, dense CLAY	dry	0.0	ND	ND	ND	
	****** End of Boring at 25' *****						

Notes

Fill Materials

Obvious fill not noted from 15 – 25'

Saturated Soils

@ 15 – 21.5', then dry, dense confining layer of clay to 25'

Field Evidence of Contamination

Low-level PID reading in upper saturated soil, no other obvious contamination observed

OTHER

Offset boring extended to complete boring 3SB-03A, pre-drill to 15'

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

3SB-4 *Clay Street, sidewalk (S)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-09-22 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Overcast, light wind, mid-60s F	

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown M SAND	dry	0.0	ND	ND	ND	**(0-5')**
5 – 10'	Brown SAND (M-C)	moist	0.0	ND	ND	ND	
10 – 15'	Brown M(some)-C SAND ****** Saturated at 11' *****	wet	30	ND	ND	ND	
15 – 20'	Brown C SAND, Gravely, some Silty	wet	38	ND	ND	ND	**(15-20')**
20 – 25'	(20-21.5') Brown M SAND, some Gravel (21.5-25') Red and Gray, dense CLAY ****** End of Boring at 25' *****	wet dry	0.0 0.0	ND ND	ND ND	ND ND	**(20-25')**

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 11 – 21.5', then dry, dense confining layer of clay to 25'

Field Evidence of Contamination

Elevated PID readings in saturated soils, no other obvious contamination observed

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

3SB-5 *Clay Street, sidewalk (S)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-09-22 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Overcast, light wind, mid-60s F	

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown SAND (F) over Brown SILT	dry	0.0	ND	ND	ND	**(0-5')**
5 – 10'	Brown SAND (F), almost dry	moist	0.0	ND	ND	ND	
10 – 15'	Brown CLAY, SAND (F)	moist	11	ND	ND	ND	
15 – 20'	Brown CLAY, little SAND (F)	moist	0.0	ND	ND	ND	**(15-20')**
20 – 25'	Red, Brown and Gray CLAY, dense, almost dry ****** End of Boring at 25' *****	dry	0.0	ND	ND	ND	**(20-25')**

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

Not noted, moist soil between 10 – 20', then dense almost dry layer of clay to 25'

Field Evidence of Contamination

Low-level PID readings in moist soils near presumed groundwater interface, no other obvious contamination observed

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

3SB-6 *Building Interior, SW of MW-34* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-09-24 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Clear to overcast, light wind, mid-60s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8") / **SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 20'	****** Push pre-probe rod to 20', no recovery *****	n/a	0.0	ND	n/a	n/a	
20 – 25'	Gray, CLAY, dense and dry (crumbles easily)	dry	4.7	ND	ND	ND	**(20-25')**
25 – 30'	Gray, CLAY, with Red layers, trace gravel, dense and dry (crumbles easily) ****** End of Boring at 30' *****	dry	1.1	ND	ND	ND	**(25-30')**

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

Not noted, dense dry layer of clay to 30'

Field Evidence of Contamination

Minimal low-level PID readings, no other obvious contamination observed

OTHER

Offset boring extended to provide additional deep soil data in the vicinity of MW-34

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

3SB-7 *Building Interior, NNE of MW-34* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-09-24 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Clear to overcast, light wind, mid-60s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown SAND (F), almost dry	moist	5.5	ND	ND	ND	**(0-5')**
5 – 10'	Brown SAND (F-M), almost dry	moist	3.4	ND	ND	ND	
10 – 15'	Brown SAND (F-M), Clayey, increasing moisture at 14-15'	moist	27	ND	ND	ND	**(10-15')**
15 – 18'	Brown SAND (F-M), Clayey over Brown Clay, Sandy, rock at tip of corer ****** End of Boring at 18' (refusal) *****	moist	21	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

Not noted, moist soil between 14 – 18'

Field Evidence of Contamination

Elevated PID readings noted at borehole (68 ppm) and in moist soils (peak 27 ppm), no other obvious contamination observed

OTHER

Refusal at 18', likely on rock inclusion

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

3SB-8 *Building Interior, NE of MW-34* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-09-24 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Clear to overcast, light wind, mid-60s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown SAND (F), almost dry	moist	3.4	ND	ND	ND	**(0-5')** **[duplicate collected]**
5 – 10'	Brown SAND (F-M), almost dry	moist	2.7	ND	ND	ND	
10 – 15'	Brown SAND (F-M), Clayey, increasing moisture at 14-15'	moist	5.6	ND	ND	ND	
15 – 20'	(15-17') Brown SAND (M-C) (17-20') Brown SAND (M-C), Clayey over Gray CLAY, Sandy, some gravel ****** Saturated at 15' *****	wet	75	ND	ND	ND	**(15-20')**
20 – 25'	Surface fall-in over Gray CLAY, dense and dry (crumbles easily) ****** End of Boring at 25' *****	dry	3.7	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 15 – 20', then dry, dense confining layer of clay to 25'

Field Evidence of Contamination

Elevated PID readings noted at borehole (79 ppm) and in saturated soils (75 ppm), no other obvious contamination observed

OTHER

Duplicate sample (3SB-Dup) collected at the 0-5' interval

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

3SB-9 *Building Interior, S of MW-8* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-09-24 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Clear to overcast, light wind, mid-60s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown SAND (F), some Gravel, almost dry	moist	5	ND	ND	ND	**(0-5')** **[duplicate collected]**
5 – 10'	Brown SAND (F-M), some Gravel, almost dry	moist	3.9	ND	ND	ND	
10 – 15'	Brown Clayey SAND (F-M), increasing moisture at 14-15'	moist	8	ND	ND	ND	
15 – 20'	(15-17') Brown SAND (M-C) (17-20') Brown Clayey SAND (M-C) over Gray Sandy CLAY, some gravel ****** Saturated at 15' *****	wet	42	ND	ND	ND	**(15-20')**
20 – 25'	Surface fall-in over Gray CLAY, dense and dry (crumbles easily) ****** End of Boring at 25' *****	dry	ND	ND	ND	ND	**(20-25')**

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 15 – 20', then dry, dense confining layer of clay to 25'

Field Evidence of Contamination

Elevated PID readings noted at borehole (32 ppm) and in saturated soils (42 ppm), no other obvious contamination observed

OTHER

Duplicate sample (3SB-Dup) collected at the 0-5' interval

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-17 *Clay Street, sidewalk (S)*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File SB09110*
	DATE: 2012-02-15 DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)	
(SHEET 1 OF 1)	ESI STAFF: R. Hooker WEATHER: Overcast, light wind, low-40s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE SIDEWALK (3-4") / SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Gray SAND (F-M) with trace Gravel and Silt	dry	0.0	ND	ND	ND	
2 – 4'	Brown SAND (VF) with trace Silt	dry	0.0	ND	ND	ND	
4 – 6'	Brown SILT, trace Sand (VF)	dry	0.0	ND	ND	ND	
6 – 8'	Brown SILT, trace Sand (VF) and Clay	moist	0.0	ND	ND	ND	
8 – 10'	Brown SILT, trace Sand (VF) and Clay	moist	0.0	ND	ND	ND	
10 – 12'	Brown SILT, trace Sand (VF) and Clay	moist	0.0	ND	ND	ND	
12 – 14'	Brown SILT, trace Sand (VF) and Clay	moist	0.0	ND	ND	ND	**(14')**
14 – 16'	Brown SILT, some Clay, lenses of Sand (F) ****** End of Soil Recovery at 16' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Field Evidence of Contamination

None

Saturated Soils

@ 15'

OTHER

Auger 16' to 20', installed 2" monitoring well, screen from 5-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-18 (SB-76) Clay Street, sidewalk (S) (SHEET 1 OF 1)	Remedial Investigation Report Former NuHart Plastic Manufacturing, Brooklyn, New York NYSDEC IHWD Site No. 224136	ESI FILE SB09110
	DATE: 2012-02-15	DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)
	ESI STAFF: R. Hooker	WEATHER: Overcast, light wind, low-40s F

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Brown SAND (F-M) with trace Gravel and Silt, ash and concrete, fill	dry	0.0	ND	ND	ND	
2 – 4'	Brown SAND (F-M) with trace Gravel and Silt	dry	0.0	ND	ND	ND	
4 – 6'	Brown SAND (F), trace Silt	dry	0.0	ND	ND	ND	
6 – 8'	Brown SAND (F-M) with some Sand (C) and Gravel (F)	dry	0.0	ND	ND	ND	
8 – 10'	Brown SILT, some Clay, lenses of Sand (F)	moist	0.0	ND	ND	ND	
10 – 12'	Brown SILT, some Clay, lenses of Sand (F)	moist	0.0	ND	ND	ND	
12 – 14'	Brown SILT, some Clay, lenses of Sand (F)	moist	0.0	ND	ND	ND	**(15')**
14 – 16'	Brown SILT, some Clay, lenses of Sand (F) ****** End of Soil Recovery at 16' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Fill from surface to approximately 1.5'

Field Evidence of Contamination

None

Saturated Soils

@ 15'

OTHER

Auger 16' to 20', installed 2" monitoring well, screen from 5-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-19 *Building Interior, Spill Site*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File SB09110*
	DATE: 2012-02-02 DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)	
SHEET 1 OF 1	ESI STAFF: R. Hooker WEATHER: Clear to overcast, light wind, 40s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Brown SAND (VT) with Silt, Gravel (F), concrete and ash, obvious fill	dry	0.0	ND	ND	ND	
2 – 4'	Brown SAND (F-M) with Silt	dry	0.0	ND	ND	ND	
4 – 6'	Brown SILT and SAND (VF)	moist	0.0	ND	Yes	ND	
6 – 8'	Brown and Gray CLAY and SILT	moist	0.0	Yes	Yes	ND	
8 – 10'	Brown and Gray CLAY and SILT, Brown SILT with Clay	moist	22.0	Yes	Yes	ND	
10 – 12'	Gray SILT with some Sand (VF)	wet	36.2	Yes	Yes	Yes	**(10-12')**
12 – 14'	Gray SILT with some Sand (VF)	wet	32.2	Yes	Yes	Yes	
14 – 16'	Brown Clayey SILT with some Sand (VF)	wet	7.1	Yes	ND	ND	
16 – 18'	Brown SILT with trace Sand (VF)	wet	0.0	Yes	ND	ND	
18 – 20'	Gray Clayey SILT with some Sand (VF)	wet	0.0	Yes	ND	ND	

Notes

Fill Materials

Fill from surface to approximately 6'

Field Evidence of Contamination

@ 4' to 20' – odors and/or staining, @ 10' to 14' NAPL

Saturated Soils

@ 11'

OTHER

Installed 2" monitoring well, screen from 5-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-20 (SB-75) Dupont Street, sidewalk (S)	Remedial Investigation Report Former NuHart Plastic Manufacturing, Brooklyn, New York NYSDEC IHWD Site No. 224136	ESI FILE SB09110
	DATE: 2012-02-16	DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)
(SHEET 1 OF 1)	ESI STAFF: R. Hooker	WEATHER: Overcast, light wind, low-40s F

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Brown SAND (VF) with Silt	dry	0.0	ND	ND	ND	
2 – 4'	Brown SAND (VF) with Silt	dry	0.0	ND	ND	ND	
4 – 6'	Tan SAND (F-C) with Gravel	dry	0.0	ND	ND	ND	
6 – 8'	Light Brown SAND (F-C) with Gravel	dry	0.0	ND	ND	ND	
8 – 10'	Light Brown SAND (F-C) with Gravel	moist	0.0	ND	ND	ND	
10 – 12'	Gray SAND (F-C) with Gravel	wet	0.0	Yes	ND	ND	
12 – 14'	No recovery	-	-	-	-	-	
14 – 16'	Brown SAND (VF-M) with trace Silt ****** End of Soil Recovery at 16' *****	wet	0.0	Yes	ND	Yes	

Notes

Fill Materials

Obvious fill not noted

Field Evidence of Contamination

@ 10' to 16' – odors, @16' NAPL

Saturated Soils

@ 10'

OTHER

Auger 16' to 20', installed 2" monitoring well, screen from 5-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-21 Building Interior	Remedial Investigation Report Former NuHart Plastic Manufacturing, Brooklyn, New York NYSDEC IHWD Site No. 224136	ESI File SB09110
	Date: 2012-02-10	Driller (Rig) Soil Testing (rotary auger/hammer, 2' split spoon)
(Sheet 1 of 1)	ESI Staff: R. Hooker	Weather: Clear, light wind, 30-40s F

Surface Material: concrete building slab (4-8")

Boring Interval	Soil / Material Description	Moisture	PID (ppm)	Odors	Staining	NAPL	Samples Collected
0 – 2'	Brown SAND (F-M), some Gravel (F), ash/wood (Fill)	dry	0.0	ND	ND	ND	
2 – 4'	Brown SAND (F-M), some Gravel, Fill	dry	0.0	ND	ND	ND	
4 – 6'	Brown SILT, some Sand (VF)	moist	0.0	ND	ND	ND	
6 – 8'	No recovery	---	---	---	---	---	
8 – 10'	Brown SAND (F-M), some Silt	moist	0.0	ND	ND	ND	
10 – 12'	Brown-Gray Sandy SILT	moist	0.0	ND	ND	ND	
12 – 14'	Brown and Gray Sandy SILT, some Clay	wet	1.0	Yes	ND	Yes	**(14')**
	****** Saturated at 13' *****						
14 – 16'	Gray-Brown Clayey SILT over SAND (VF)	wet	0.0	Yes	ND	Yes	
	****** End of Soil Recovery at 16' *****						

Notes

Fill Materials

Fill from surface to approximately 4'

Field Evidence of Contamination

@ 13' to 16' – odors and NAPL

Saturated Soils

@ 13'

OTHER

Auger 16' to 20', installed 2" monitoring well, screen from 5-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-22 (SB-71) Building Interior	Remedial Investigation Report Former NuHart Plastic Manufacturing, Brooklyn, New York NYSDEC IHWD Site No. 224136	ESI File SB09110
	Date: 2012-02-10	Driller (Rig) Soil Testing (rotary auger/hammer, 2' split spoon)
Sheet 1 of 1	ESI Staff: R. Hooker	Weather: Clear, light wind, 30-40s F

Surface Material: concrete building slab (4-8")

Boring Interval	Soil / Material Description	Moisture	PID (ppm)	Odors	Staining	NAPL	Samples Collected
0 – 2'	Brown SAND (VT) with Gravel, brick, concrete and ash, obvious fill	dry	0.0	ND	ND	ND	
2 – 4'	Brown SAND (VT) with Gravel, brick, concrete and ash, obvious fill	dry	0.0	ND	ND	ND	
4 – 6'	Brown SAND (VT) with Gravel, brick, concrete and ash, obvious fill	dry	0.0	ND	ND	ND	
6 – 8'	No recovery	dry	0.0	ND	ND	ND	
8 – 10'	Brown SAND (F-M), some Gravel (F), trace Silt	moist	0.0	ND	ND	ND	
10 – 12'	Brown SAND (F-M) ****** Saturated at 10' *****	wet	0.0	Yes	ND	ND	
12 – 14'	Gray SAND (F-C), some Gravel (F) ****** End of Soil Recovery at 14' *****	wet	1.0	ND	ND	Yes	**(14')**

Notes

Fill Materials

Fill from surface to approximately 6'

Field Evidence of Contamination

@ 10' to 12' – odors, @ 12' to 16' NAPL

Saturated Soils

@ 10'

OTHER

Refusal at 7', offset 2' to complete, auger 14' to 20', installed 2" monitoring well, screen from 5-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-23 *Franklin Street, sidewalk (E)*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File SB09110*
	DATE: 2012-07-25 DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)	
SHEET 1 OF 1	ESI STAFF: M. Pentz WEATHER: Clear, light wind, low-70s F	

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Brown SAND (F-M) and SILT with Gravel, brick, obvious fill	dry	0.0	ND	ND	ND	
2 – 4'	Brown SAND (F-M) and SILT with Gravel, brick, obvious fill	dry	0.0	ND	ND	ND	
4 – 6'	Brown SAND (VF-M)	dry	0.0	ND	ND	ND	
6 – 8'	Brown SAND (VF-M)	dry	0.0	ND	ND	ND	
8 – 10'	Brown SAND (VF-M)	moist	0.0	ND	ND	ND	
10 – 12'	Brown SAND (VF-M) ****** Saturated at 10.5' *****	wet	0.0	ND	ND	ND	**(10-12')**
12 – 14'	Brown SAND (VF-M) ****** End of Soil Recovery at 16' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Fill from surface to approximately 4'

Field Evidence of Contamination

None

Saturated Soils

@ 10.5'

OTHER

Auger 14' to 20', installed 2" monitoring well, screen from 8-18', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-24 *Corner of Franklin and Dupont (SW), sidewalk*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File SB09110*
	DATE: 2012-07-25 DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)	
SHEET 1 OF 1	ESI STAFF: M. Pentz WEATHER: Clear, light wind, low-70s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE SIDEWALK (3-4") **SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Tailings: Brown SAND (F-M), SILT, GRAVEL (F-C)	dry	0.0	ND	ND	ND	
5 – 7'	Brown SAND (F-M) with Silt and Gravel (F-C)	moist	0.0	ND	ND	ND	
7 – 9'	Brown SAND (F-M) with Silt and Gravel (F-C)	moist	0.0	ND	ND	ND	
9 – 11'	Brown SAND (VF-M) ****** Saturated at 10.5' *****	wet	0.0	ND	ND	ND	**(7-9')**
11 – 13'	Brown SAND (VF-M)	wet	0.0	ND	ND	ND	
13 – 15'	Brown SAND (VF-M) ****** End of Soil Recovery at 15' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Field Evidence of Contamination

None

Saturated Soils

@ 9'

OTHER

Refusal at 3.5', offset to complete well, auger to 5', sample soil from 5' to 15', auger to 20', installed 2" monitoring well, screen from 8-18', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-25 *Corner of Franklin and Dupont (NW), sidewalk*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File SB09110*
	DATE: 2012-07-25 DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)	
SHEET 1 OF 1	ESI STAFF: M. Pentz WEATHER: Clear, light wind, low-70s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE SIDEWALK (3-4") / SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Brown SAND (F-C), SILT, GRAVEL (F-C), brick, obvious fill	dry	0.0	ND	ND	ND	
2 – 4'	Brown SAND (F-C), SILT, GRAVEL (F-C), brick, obvious fill	dry	26.3	ND	ND	ND	
4 – 6'	Brown SAND (F-C), SILT, GRAVEL (F-C), brick, obvious fill	dry	43.3	ND	ND	ND	
6 – 8'	Brown SILT with Sand (F-M)	dry	43.0	ND	ND	ND	
8 – 10'	Brown SILT with Sand (F-M)	very moist	112	ND	ND	ND	
10 – 12'	Brown SAND (F-C) with some Gravel (F) ****** Saturated at 10' *****	wet	232	ND	ND	Yes	**(10-12')**
12 – 14'	Brown SAND (F-C) with some Gravel (F) ****** End of Soil Recovery at 14' *****	wet	344	ND	ND	Yes	

Notes

Fill Materials

Fill from surface to approximately 6'

Field Evidence of Contamination

@ 2' to 14' increasing PID readings, @ 10' to 14' NAPL

Saturated Soils

@ 10'

OTHER

Auger 14' to 20', installed 2" monitoring well, screen from 8-18', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-26 *Corner of Franklin and Dupont (SE), sidewalk* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2012-09-24 DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)	
	ESI STAFF: M. Pentz WEATHER: Partly cloudy, light wind, 80s F	

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 10'	Tailings: 0 to 1.5' fill (asphalt, brick, SAND/GRAVEL)	dry	0.0	ND	ND	ND	
	Tailings: 1.5 to 10' Brown SILT, SAND (F-C) and GRAVEL (F-C)	dry	0.0	ND	ND	ND	
10 – 12'	Brown SAND (F-C), some Silt and Gravel (F-C) ****** Saturated at 10' *****	wet	2.4	ND	ND	Yes	**(10-12')**
12 – 14'	Brown SAND (F-C), some Silt and Gravel (F-C)	wet	4.2	ND	ND	Yes	
14 – 16'	Brown SAND (F-C), some Silt and Gravel (F-C) ****** End of Soil Recovery at 16' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Fill from surface to approximately 1.5'

Field Evidence of Contamination

@ 2' to 14' increasing PID readings, @ 10' to 14' NAPL

Saturated Soils

@ 10'

OTHER

Auger to 10', sample soil from 10' to 16', auger to 20', installed 2" monitoring well, screen from 10-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-27 *Dupont Street, sidewalk (S)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2012-09-24 DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)	
	ESI STAFF: M. Pentz WEATHER: Partly cloudy, light wind, 80s F	

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 10'	Tailings: Brown SILT, SAND (F-C) and GRAVEL (F-C)	dry	0.0	ND	ND	ND	
10 – 12'	Brown SAND (VF-C), some Silt	wet	0.0	ND	ND	ND	**(10-12')**
12 – 14'	Brown SAND (VF-C), some Silt ****** Saturated at 12' *****	wet	0.0	ND	ND	ND	
14 – 16'	Brown SAND (VF-C), some Silt ****** End of Soil Recovery at 16' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Field Evidence of Contamination

None

Saturated Soils

@ 12'

OTHER

Auger to 10', sample soil from 10' to 16', auger to 20', installed 2" monitoring well, screen from 10-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-28 *Franklin Street, sidewalk (E)*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File SB09110*
	DATE: 2013-01-08 DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)	
SHEET 1 OF 1	ESI STAFF: M. Pentz WEATHER: Clear, windy, 30-40s	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE SIDEWALK (3-4") **SOIL / MATERIAL DESCRIPTION**	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Tailings: Brown SAND (F-C), some GRAVEL (F)	dry	0.0	ND	ND	ND	
5 – 7'	Brown SAND (F-C)	moist	0.0	ND	ND	ND	
7 – 10'	Tailings: Brown SAND (F-C)	moist	0.0	ND	ND	ND	
10 – 12'	Brown SAND (VF-F) and SILT, some Gravel (F) ****** Saturated at 11' *****	wet	0.0	ND	ND	ND	**(10-12')**
12 – 15'	Tailings: Brown SAND (VF-F), SILT, some Gravel (F)	wet	0.0	ND	ND	ND	
15 – 17'	Brown SAND (VF-M) ****** End of Soil Recovery at 17' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Field Evidence of Contamination

None

Saturated Soils

@ 11'

OTHER

Auger to 5', sample soil 5' to 7', 10' to 12' and 15' to 17' (auger in between and from 17' to 20'), installed 2" monitoring well, screen from 10-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-29 *Dupont Street, sidewalk (S)*	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI File SB09110*
	DATE: 2013-01-08	DRILLER (RIG) Soil Testing (rotary auger/hammer, 2' split spoon)
SHEET 1 OF 1	ESI STAFF: M. Pentz	WEATHER: Clear, light wind, upper 30s to lower 40s F

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 2'	Brown SAND (F-M), some Sand (C) and Gravel (F)	dry	0.0	ND	ND	ND	
2 – 4'	Brown SAND (F-M), some Sand (C) and Gravel (F)	dry	0.0	ND	ND	ND	
4 – 6'	No recovery	dry	0.0	ND	ND	ND	
6 – 8'	Brown SAND (M) with trace Silt	dry	0.0	ND	ND	ND	
8 – 10'	Brown SAND (M-C) with some Gravel (F) and trace Silt	moist	0.0	ND	ND	ND	
10 – 12'	Brown SAND (F-M) with some Sand (C) and Gravel (F), with trace Silt ****** Saturated at 11' ***** ****** End of Soil Recovery at 12' *****	wet	0.0	ND	ND	ND	**(10-12')**

Notes

Fill Materials

Obvious fill not noted

Field Evidence of Contamination

None

Saturated Soils

@ 11'

OTHER

Auger 12' to 20', installed 2" monitoring well, screen from 10-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-30 *Dupont Street, sidewalk (N)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2013-07-31 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: A. Atkinson WEATHER: Clear to partly cloudy, calm, 70s F	

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown SAND (F-M) with Silt	dry	0.0	ND	ND	ND	
5 – 10'	Brown SAND (F-M) with Silt	Sl. moist	0.0	ND	ND	ND	
10 – 15'	Brown SAND (M-C), trace Silt ****** Saturated at 10' *****	wet	0.0	ND	ND	ND	**(10-15')**
15 – 20'	Poor recovery, Gray and Brown SAND (C) ****** End of Boring at 20' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 10''

Field Evidence of Contamination

None

OTHER

Installed 2" monitoring well, screen (pre-packed) from 5-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-31 *Commercial St, sidewalk (S)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2013-07-31 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: A. Atkinson WEATHER: Clear to partly cloudy, calm, 70s F	

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown SAND (F-M) with Silt	dry	0.0	ND	ND	ND	
5 – 10'	5 to 7': Brown SAND (F-M) with Silt 7 to 10': Yellowish-Brown Silty CLAY	Sl. moist moist	0.0 0.0	ND ND	ND ND	ND ND	
10 – 15'	Brown SAND (M-C), some Silt ****** Saturated at 10' *****	wet	0.0	ND	ND	ND	**(10-15')**
15 – 20'	Poor recovery, Gray and Brown SAND (C) ****** End of Boring at 20' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 10''

Field Evidence of Contamination

None

OTHER

Installed 2" monitoring well, screen (pre-packed) from 8-18', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-32 *Franklin Street, sidewalk (W)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2013-07-31 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: A. Atkinson WEATHER: Clear to partly cloudy, calm, 70s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 5'	0 to 3': Brown SAND (F-M) with Silt 3 to 5': Yellowish-Brown Silty CLAY	dry	0.0	ND	ND	ND	**(0-5')**
5 – 10'	Yellowish-Brown Silty CLAY	Sl. moist	0.0	ND	ND	ND	
10 – 15'	10 to 13': Yellowish-Brown Silty CLAY 13 to 15': Dark SAND (M-C) ****** Saturated at 12.5' *****	wet wet	0.0 0.0	ND Yes	ND Yes	ND ND	**(10-15')**
15 – 20'	Poor recovery, Gray and Brown SAND (C) over dense Reddish Brown CLAY ****** End of Boring at 20' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 12.5''

Field Evidence of Contamination

None

OTHER

Installed 2" monitoring well, screen (pre-packed) from 10-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-34 (2SB-1) Building Interior, NE of MW-4	Remedial Investigation Report Former NuHart Plastic Manufacturing, Brooklyn, New York NYSDEC IHWD Site No. 224136	ESI File SB09110
	Date: 2013-08-01	Driller (Rig) Zebra (6620DT Geoprobe, 5' macro-core)
(Sheet 1 of 1)	ESI Staff: A. Atkinson	Weather: Overcast to rain, light wind, low-70s F

Surface Material: concrete building slab (4-8")

Boring Interval	Soil / Material Description	Moisture	PID (ppm)	Odors	Staining	NAPL	Samples Collected
0 – 5'	Brown SAND (M), Fill?	dry	0.0	ND	ND	ND	
5 – 10'	Brown SAND (M)	moist	0.0	ND	ND	ND	
10 – 15'	Brown SAND (M-C) over Brown Silty CLAY ****** Saturated at 12' *****	wet	0.0	ND	ND	ND	**(10-15')**
15 – 20'	Brown Silty CLAY ****** End of Boring at 20' *****	wet	0.0	ND	ND	ND	**(15-20')**

Notes

Fill Materials

Potential fill from surface to approximately 5'

Field Evidence of Contamination

None

Saturated Soils

@ 12'

OTHER

Installed 2" monitoring well, screen (pre-pack) from 10-20', stick-up casing

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-35 (2SB-9) Building Interior	Remedial Investigation Report Former NuHart Plastic Manufacturing, Brooklyn, New York NYSDEC IHWD Site No. 224136	ESI FILE SB09110
	DATE: 2013-08-01	DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)
(SHEET 1 OF 1)	ESI STAFF: A. Atkinson	WEATHER: Overcast to rain, light wind, low-70s F

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown SAND (M), Fill?	dry	0.0	ND	ND	ND	**(0-5')**
5 – 10'	Brown SAND (M)	moist	0.0	ND	ND	ND	
10 – 15'	Brown SAND (M-C) over lenses of Brown Sandy CLAY, Brown SAND (C) and Brown Silty CLAY	moist	0.0	ND	ND	Yes	**(10-15')**
15 – 20'	Brown Silty CLAY ****** Saturated at 16' ***** ****** End of Boring at 20' *****	wet	0.0	ND	ND	Yes	

Notes

Fill Materials

Potential fill from surface to approximately 5'

Field Evidence of Contamination

@ 14' and 16' – Thin layers of oil

Saturated Soils

@ 16'

OTHER

Installed 2" monitoring well, screen (pre-pack) from 10-20', stick-up casing

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-36 *Dupont Street, sidewalk (S)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-07-30 DRILLER (RIG) HPI (5410 truck Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Clear, light wind, 60-70s F	

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Brown M SAND	slight	0.0	ND	ND	ND	
4 – 8'	Brown Loamy SAND, some Silty LOAM	slight	0.0	ND	ND	ND	
8 – 12'	(8-10') Brown Silty LOAM	slight	0.0	ND	ND	ND	
	(10-12') Brown Sandy LOAM over Tan SAND (C)	moist	0.0	ND	ND	ND	**(11-12')**
12 – 16'	Tan SAND (C), some Gravel (F), loose (poor recovery)	wet	0.0	ND	ND	ND	
16 – 20'	Tan SAND (C), some Gravel (F), loose (poor recovery) ****** End of Boring at 20' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 12'

Field Evidence of Contamination

None

OTHER

Installed 2" monitoring well, screen from 10-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-37 *Franklin Street, sidewalk (W)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-07-30 DRILLER (RIG) HPI (5410 truck Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Clear, light wind, 60-70s F	

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 4'	Brown M SAND	slight	0.0	ND	ND	ND	
4 – 8'	Brown Loamy SAND, some Silty LOAM	slight	0.0	ND	ND	ND	
8 – 12'	(8-10') Brown Silty LOAM	slight	0.0	ND	ND	ND	
	(10-12') Brown Sandy LOAM over Tan SAND (C)	moist	0.0	ND	ND	ND	**(11-12')**
12 – 16'	Tan SAND (C), some Gravel (F), loose (poor recovery)	wet	0.0	ND	ND	ND	
16 – 20'	Tan SAND (C), some Gravel (F), loose (poor recovery) ****** End of Boring at 20' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 12'

Field Evidence of Contamination

None

OTHER

Installed 2" monitoring well, screen from 10-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-38 *Clay Street, sidewalk (N)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-09-23 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Slight haze, light wind, 60-70s F	

BORING INTERVAL	SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
	SOIL / MATERIAL DESCRIPTION						
0 – 5'	Brown M SAND, almost dry	moist	0.0	ND	ND	ND	**(0-5')**
5 – 10'	Brown SAND (M-C), almost dry	moist	0.0	ND	ND	ND	
10 – 15'	Brown C SAND, some Gravel ****** Saturated soil *****	wet	0.0	ND	ND	ND	**(10-15')**
15 – 20'	(15-18') Brown SAND (M-C) (18-20') Brown Clayey SAND (F)	wet wet	0.0 0.0	ND ND	ND ND	ND ND	
20 – 25'	(20-22') Brown Clayey SAND (F) (22-25') Red and Gray Silty CLAY, SAND (F), almost dry ****** End of Boring at 25' *****	wet moist	ND ND	ND ND	ND ND	ND ND	

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 15 – 22', then dry, dense confining layer of clay to 25'

Field Evidence of Contamination

None

OTHER

Installed 2" monitoring well, screen from 5-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-39 *Clay Street, sidewalk (N)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-09-23 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Slight haze, light wind, 60-70s F	

SURFACE MATERIAL: CONCRETE SIDEWALK (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown and Tan Silty SAND (F)	dry	0.0	ND	ND	ND	**(0-5')**
5 – 10'	Brown F-M SAND (approximately 9-10') Field evidence of petroleum contamination noted at corer tip	dry moist	0.0 109	ND Yes	ND Yes	ND ND	
10 – 15'	Brown Clayey SAND (F-M), distinct petroleum impacted 2" layer near 10' ****** Saturated soil at 10' *****	wet	56	Yes	Yes	ND	**(10-11')**
15 – 20'	Brown Clayey SAND (F-M) Bottom layer of Gray Sandy CLAY	wet moist	0.0	ND	ND	ND	
20 – 25'	(20-22') Brown Silty CLAY, SAND (F) (22-25') Red and Gray Silty CLAY, almost dry ****** End of Boring at 25' *****	moist moist	ND ND	ND ND	ND ND	ND ND	

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 10 – 15 to 20', then dry, dense confining layer of clay to 25'

Field Evidence of Contamination

Likely thin layer of petroleum contamination observed at groundwater interface, boring extended near former filling station at north side of street, near gasoline fill ports

OTHER

Installed 2" monitoring well, screen from 5-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-40 *Building Interior, loading dock E of IHWDS* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-09-24 DRILLER (RIG) Zebra (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Clear to overcast, light wind, mid-60s F	

SURFACE MATERIAL: CONCRETE BUILDING SLAB (4-8")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown M SAND, some Gravel	dry	4.6	ND	ND	ND	**(0-5')**
5 – 10'	Brown SAND (F-M)	dry	0.0	ND	ND	ND	
	(near corer tip) Brown SAND (M-C), some Silt and Clay	moist	0.0	ND	ND	ND	
10 – 15'	Brown SAND (M-C), some Silt and Silty Clay, over SAND (M-C), Clayey	moist	2	ND	ND	ND	
15 – 20'	Brown Clayey SAND (M-C), over Brown to Gray Silty CLAY, Sandy	moist	2.6	ND	ND	ND	**(15-20')**
20 – 25'	Gray with some Red Silty CLAY, dense and dry (crumbles easily) ****** End of Boring at 25' *****	dry	ND	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

Not noted, moist soil between 10 – 20''

Field Evidence of Contamination

Minimal PID readings noted in moist soil, no other obvious contamination observed

OTHER

Boring extended in loading dock at approximately 4' below surrounding floor level, installed 2" monitoring well, screen from 5-20', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-41 *Greenpoint Playground (S)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-12-10 DRILLER (RIG) AES (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Overcast, variable wind, 30s F	

SURFACE MATERIAL: ASPHALT PAVEMENT (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown, Silty SAND (F)	moist	0.0	ND	ND	ND	
5 – 10'	Brown, Silty CLAY, some Sand ****** Saturated soil at 10' *****	moist	0.0	ND	ND	ND	**(8-10')**
10 – 15'	Brown, Silty CLAY	wet	0.0	ND	ND	ND	
15 – 20'	Brown, SAND (C) ****** End of Boring at 20' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 10'

Field Evidence of Contamination

None

OTHER

Installed 2" monitoring well, screen from 8-18', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

Soil Boring Log

Ecosystems Strategies, Inc.

MW-42 *Greenpoint Playground (N)* (SHEET 1 OF 1)	**Remedial Investigation Report** **Former NuHart Plastic Manufacturing, Brooklyn, New York** **NYSDEC IHWD Site No. 224136**	*ESI FILE SB09110.55*
	DATE: 2014-12-10 DRILLER (RIG) AES (6620DT Geoprobe, 5' macro-core)	
	ESI STAFF: S. Spitzer WEATHER: Overcast, variable wind, 30s F	

SURFACE MATERIAL: ASPHALT PAVEMENT (3-4")

BORING INTERVAL	SOIL / MATERIAL DESCRIPTION	MOISTURE	PID (PPM)	ODORS	STAINING	NAPL	SAMPLES COLLECTED
0 – 5'	Brown, Silty SAND (F)	moist	0.0	ND	ND	ND	
5 – 10'	Brown, Silty CLAY, some Sand ****** Saturated soil at 10' *****	moist	0.0	ND	ND	ND	**(8-10')**
10 – 15'	Brown, Silty CLAY	wet	0.0	ND	ND	ND	
15 – 20'	Brown, SAND (C) ****** End of Boring at 20' *****	wet	0.0	ND	ND	ND	

Notes

Fill Materials

Obvious fill not noted

Saturated Soils

@ 10'

Field Evidence of Contamination

None

OTHER

Installed 2" monitoring well, screen from 8-18', flush mount with steel cover

ND (non-detect) **PID** (photoionization detector) **ppm** (parts per million) **NAPL** (non-aqueous phase liquid)
Texture: VF (very fine) **F** (fine) **M** (medium) **C** (coarse) **VT** (variable texture)

APPENDIX D

Driller's Well Construction Logs

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies Inc.	SHEET 1 OF 1 HOLE NO. MW-17
	PROJECT NO. E6-9026-12	
	PROJECT NAME Former Nu Hart Manufacturing	BORING LOCATIONS per Plan
FOREMAN - DRILLER TP/tb	LOCATION 280 Franklin Street Brooklyn, New York	
INSPECTOR Richard		OFFSET
GROUND WATER OBSERVATIONS AT__FT AFTER_0_HOURS AT__FT AFTER__HOURS		DATE START 2/15/12 DATE FINISH 2/15/12 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		1	ss	24"	15"	2'0"	3	6			dry		4" CONCRETE
							5	6			loose	2'0"	drk gry FM SAND,silt,lit F gravel
		2	ss	24"	20"	4'0"	9	8			dry		brn VF SAND,sm silt
							8	7			loose		brn VF F SAND,lit silt
5		3	ss	24"	20"	6'0"	7	8			dry	5'0"	
							8	10			loose		brn SILT,lit VF sand
		4	ss	24"	19"	8'0"	10	10			l moist		
							9	9			stiff		brn gry SILT,sm clay
		5	ss	24"	22"	10'0"	7	9			l moist		brn SILT,sm clay,tr VF sand (lenses)
10							10	11			stiff		
		6	ss	24"	20"	12'0"	3	6			moist		SAME
							9	9			stiff		
		7	ss	24"	20"	14'0"	6	7			moist		brn SILT,sm clay,lit VF sand
							9	10			stiff		
15		8	ss	24"	22"	16'0"	3	6			moist/wet		brn SILT,lit clay,VF sand
							9	12			stiff		
		9	ss	24"	16"	18'0"	11	13			moist		brn gry SILT,sm (lenses) VF sand,lit clay
							18	20			v stiff		
20												20'0"	
													E.O.B. 20'0" / Set well
25													
30													
35													
40													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____FT. USED _____CASING THEN _____ CASING TO _____FT. **HOLE NO. MW-17**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

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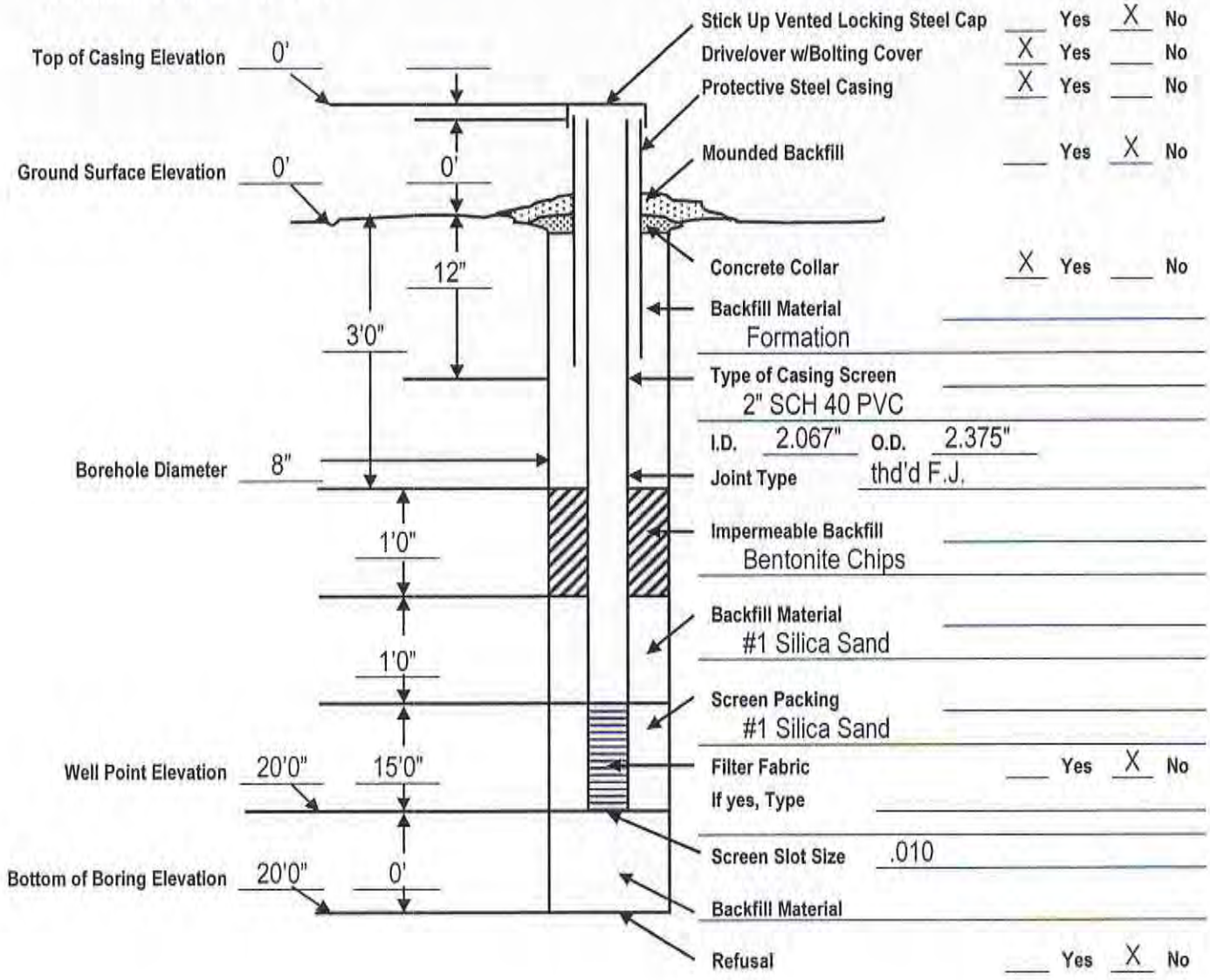
SOILTESTING, INC.

90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies
JOB #: E6-9026-12

Monitor Well # MW-17



Screen	15'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1 bag	D/O	1
Slip Cap		Portland Cement	¼ bag	S/U	
Silica Sand	450#				
Powdered Bentonite					

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies Inc.	SHEET 1 OF 1 HOLE NO. MW-18
	PROJECT NO. E6-9026-12	
	PROJECT NAME Former Nu Hart Manufacturing	BORING LOCATIONS per Plan
FOREMAN - DRILLER TP/tb	LOCATION 280 Franklin Street Brooklyn, New York	
INSPECTOR Richard		OFFSET
GROUND WATER OBSERVATIONS AT 12 FT AFTER 0 HOURS AT __FT AFTER __HOURS		DATE START 2/15/12 DATE FINISH 2/15/12 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		1	ss	18"	12"	2'0"		4			dry	1'0"	6.5" CONCRETE/drk brn blk FM SAND,sm ash,F gravel,lit concrete
							7	12			loose		brn FM SAND,sm silt,lit F gravel
		2	ss	24"	18"	4'0"	10	15			dry		lt brn F SAND
							8	16			compact		lit brn F SAND,tr silt
5		3	ss	24"	12"	6'0"	7	8			dry		lt brn VF F SAND,tr M-C sand
							8	9			loose		
		4	ss	24"	20"	8'0"	8	7			l moist		lt brn F SAND,lit M sand,tr F gravel
							9	8			loose	8'0"	lt brn FM SAND,lit C sand,tr silt,F gravel
		5	ss	24"	22"	10'0"	10	6			l moist		brn SILT,clay,sm VF sand (layers)
10							9	10			stiff		
		6	ss	24"	20"	12'0"	3	4			moist		
							6	9			stiff		
		7	ss	24"	20"	14'0"	9	9			moist		brn SILT,sm clay,lit (layers) VF sand
							12	14			stiff		
15		8	ss	24"	20"	16'0"	12	17			moist/wet		
							17	18			v stiff		
		9	ss	24"	20"	18'0"	12	18			moist/wet		brn SILT,sm lenses,VF sand
							23	24			v stiff		
20												20'0"	
25													
30													
35													
40													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____FT. USED _____CASING THEN _____ CASING TO _____FT. **HOLE NO. MW-18**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

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SOILTESTING, INC.

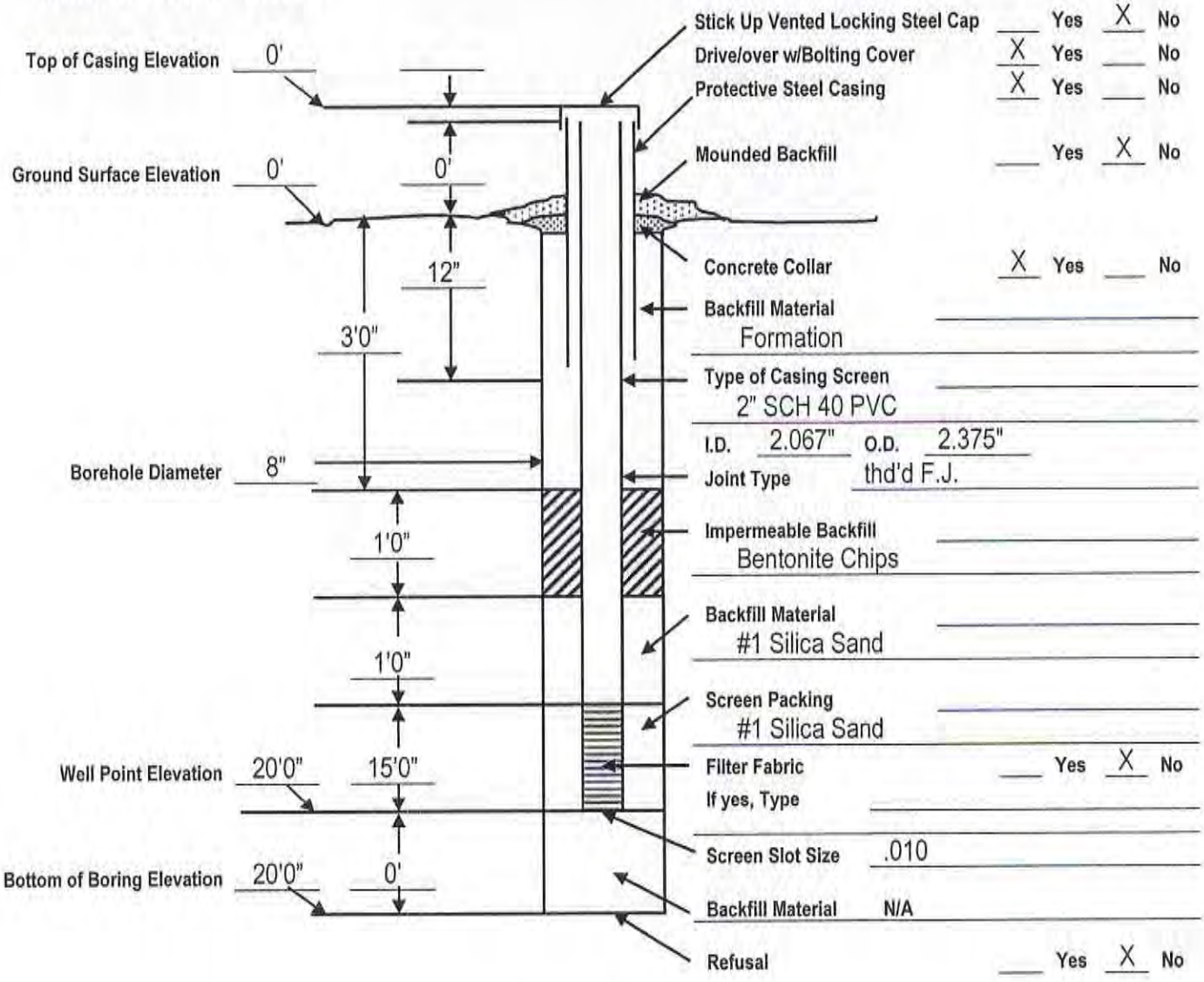
90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies

Monitor Well # MW-18

JOB #: E6-9026-12



Screen	15'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1 bag	D/O	1
Slip Cap		Portland Cement	¼ bag	S/U	
Silica Sand	450#				
Powdered Bentonite					

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies Inc.	SHEET 1 OF 1 HOLE NO. MW-19
	PROJECT NO. E6-9026-12	
	PROJECT NAME Former Nu Hart Manufacturing	BORING LOCATIONS per Plan
FOREMAN - DRILLER TP/djd	LOCATION 280 Franklin Street Brooklyn, New York	
INSPECTOR		OFFSET
GROUND WATER OBSERVATIONS AT 10 FT AFTER 0 HOURS AT FT AFTER HOURS		DATE START 2/2/12 DATE FINISH 2/2/12 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		1	ss	18"	11"	2'0"		9			dry		7" CONCRETE/drk brn/brn F-C SAND & SILT,sm F gravel,
							10	9			loose	1'0"	lit bldg rubble,ash.concrete
		2	ss	24"	18"	4'0"	7	6			dry/moist	2'0"	brn/tan SILT & VF F SAND
							7	13			loose	4'0"	brn FM SAND,sm silt
5		3	ss	24"	16"	6'0"	11	7			moist		brn/lt gry SILT & VF SAND
							8	8			loose		
		4	ss	24"	18"	8'0"	6	7			mst/v mst		brn/lt gry CLAY & SILT,tr VF sand
							8	11			loose		
		5	ss	24"	20"	10'0"	8	9			wet		SAME
10							10	13			loose		cobbles at 10' (strong odor)
		6	ss	24'	18"	12'0"	4	4			wet	10'6"	lt brn orng SILT,sm clay
							5	6			loose		gry SILT,lit VF sand (oily substance)
		7	ss	24"	18"	14'0"	7	9			wet	13'0"	SAME
							13	18			compact		lt brn CLAYEY SILT,tr VF sand
15		8	ss	24"	20"	16'0"	5	5			wet		
							9	13			stiff		brn SILT,tr VF sand
		9	ss	24"	19"	18'0"	10	11			wet		
							15	16			stiff		gry CLAYEY SILT,lit to tr VF sand
		10	ss	24"	20"	20'0"	7	11			wet		
20							21	31			v stiff	20'0"	
25													E.O.B. 20'0"
30													
35													
40													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____FT. USED _____CASING THEN _____ CASING TO _____FT. **HOLE NO. MW-19**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

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SOILTESTING, INC.

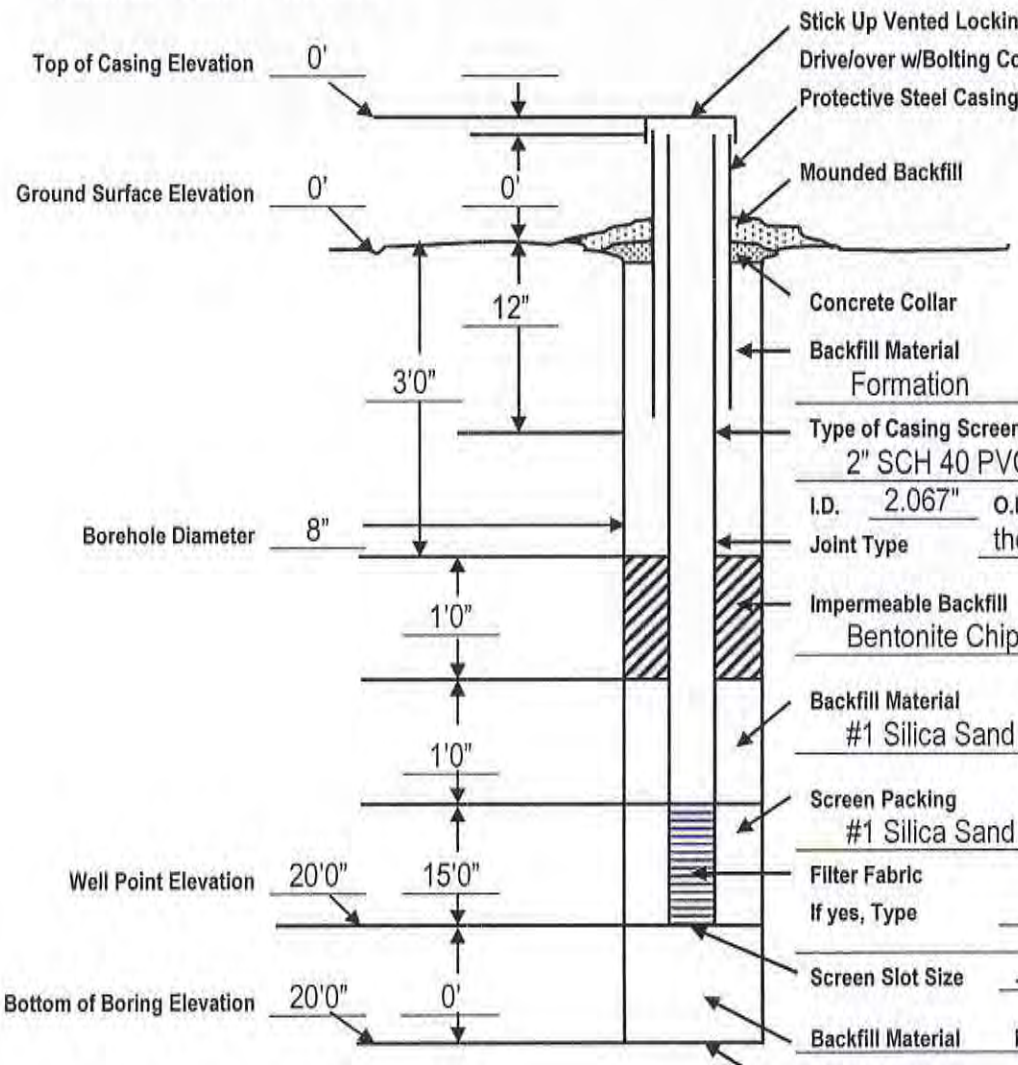
90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies

Monitor Well # MW-19

JOB #: E6-9026-12



Stick Up Vented Locking Steel Cap ___ Yes X No
Drive/over w/Bolting Cover X Yes ___ No
Protective Steel Casing X Yes ___ No
Mounded Backfill ___ Yes X No
Concrete Collar X Yes ___ No
Backfill Material Formation
Type of Casing Screen 2" SCH 40 PVC
I.D. 2.067" O.D. 2.375"
Joint Type thd'd F.J.
Impermeable Backfill Bentonite Chips
Backfill Material #1 Silica Sand
Screen Packing #1 Silica Sand
Filter Fabric ___ Yes X No
If yes, Type ___
Screen Slot Size .010
Backfill Material N/A
Refusal ___ Yes X No

Screen	15'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1 bag	D/O	1
Slip Cap		Portland Cement		S/U	
Silica Sand	550#				
Powdered Bentonite					

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies Inc. PROJECT NO. E6-9026-12 PROJECT NAME Former Nu Hart Manufacturing	SHEET 1 OF 1 HOLE NO. MW-20 BORING LOCATIONS per Plan
FOREMAN - DRILLER TP/tb	LOCATION 280 Franklin Street Brooklyn, New York	
INSPECTOR Richard		OFFSET
GROUND WATER OBSERVATIONS AT 12 FT AFTER 0 HOURS AT FT AFTER HOURS		DATE START 2/16/12 DATE FINISH 2/16/12 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		1	ss	24"	14"	2'0"	4	4			dry		4" CONCRETE
							3	4			v loose		brn VF F SAND,lit silt
		2	ss	24"	8"	4'0"	4	8			dry		brn VF SAND & SILT
							9	12			loose		
5		3	ss	24"	17"	6'0"	6	6			dry		tan VF F SAND,lit M-C sand,tr F gravel
							6	5			loose		
		4	ss	24"	18"	8'0"	6	4			dry		lt brn F-M SAND,sm C sand,lit F gravel
							6	5			loose		
		5	ss	24"	16"	10'0"	8	6			moist		
10							5	10			loose	9'6"	
		6	ss	24"	12"	12'0"	6	12			wet		gry FMC SAND,lit F gravel (fuel odor)
							8	8			compact		SAME
		7	ss	24"	18"	14'0"	9	12			wet		brn VF FM SAND,tr silt (strong fuel odor)
							13	15			compact		
15													
20												20'0"	
													E.O.B. 20'0"
25													
30													
35													
40													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____FT. USED _____CASING THEN _____ CASING TO _____FT. **HOLE NO. MW-20**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

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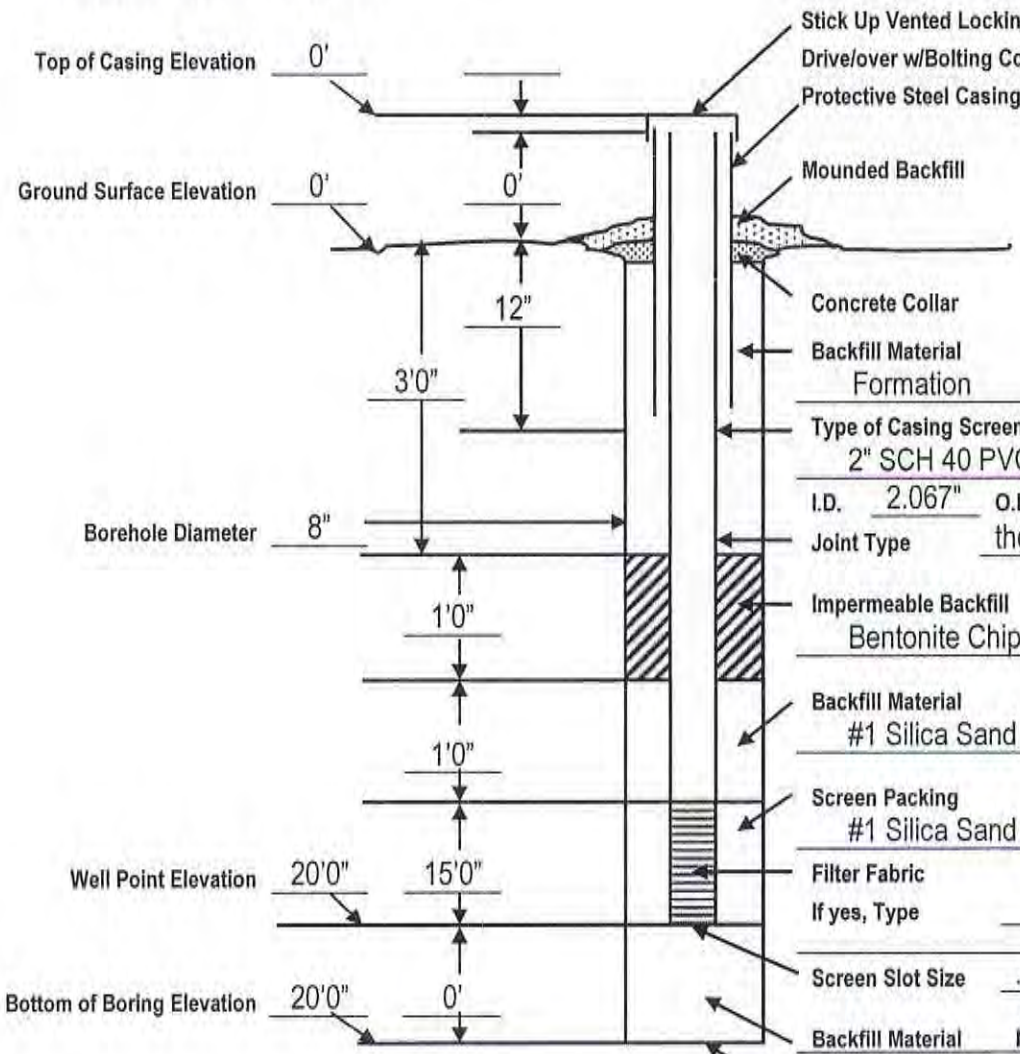
SOILTESTING, INC.

90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies

Monitor Well # MW-20 **JOB #:** E6-9026-12



Stick Up Vented Locking Steel Cap	___ Yes	X No
Drive/over w/Bolting Cover	X Yes	___ No
Protective Steel Casing	X Yes	___ No
Mounded Backfill	___ Yes	X No
Concrete Collar	X Yes	___ No
Backfill Material	Formation	
Type of Casing Screen	2" SCH 40 PVC	
I.D. 2.067" O.D. 2.375"		
Joint Type	thd'd F.J.	
Impermeable Backfill	Bentonite Chips	
Backfill Material	#1 Silica Sand	
Screen Packing	#1 Silica Sand	
Filter Fabric	___ Yes	X No
If yes, Type		
Screen Slot Size	.010	
Backfill Material	N/A	
Refusal	___ Yes	X No

Screen	15'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1 ½ bags	D/O	1
Slip Cap		Portland Cement		S/U	
Silica Sand	500#				
Powdered Bentonite					

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies Inc.	SHEET 1 OF 1 HOLE NO. MW-21
	PROJECT NO. E6-9026-12	
	PROJECT NAME Former Nu Hart Manufacturing	BORING LOCATIONS per Plan
FOREMAN - DRILLER TP/tb	LOCATION 280 Franklin Street Brooklyn, New York	
INSPECTOR Richard		OFFSET
GROUND WATER OBSERVATIONS AT 13 FT AFTER 0 HOURS AT __FT AFTER __HOURS		DATE START 2/10/12 DATE FINISH 2/13/12 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		1	ss	24"	13"	2'0"	3	6			dry		4" CONCRETE
							17	18			compact		brn FM SAND,sm F gravel,lit ash,blk carbon,tr wood
		2	ss	24"	9"	4'0"	17	18			dry		brn F SAND,sm M sand,lit F gravel
							16	15			compact	4'0"	
5		3	ss	24"	14"	6'0"	6	4			l moist		brn SILT,lit VF sand
							10	17			stiff		
		4	ss	24"	0"	8'0"	22	13			moist		no recovery - push F gravel,tr cobbles
							19	17			v stiff		
		5	ss	24"	17"	10'0"	18	8			moist	9'0"	rusty brn FM SAND,lit silt,C sand
10							7	12			stiff		brn gry SILT,lit VF sand
		6	ss	24"	18"	12'0"	4	5			moist/wet		gry SILT,lit clay,VF-F sand
							7	8			stiff		
		7	ss	24"	16"	14'0"	9	9			moist/wet		gry brn SILT,sm clay,lit FM sand
							10	10			stiff		
15													
													gry brn SILT,lit clay,VF sand (strong product odor)
20												20'0"	
25													E.O.B. 20'0"
30													
35													
40													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____FT. USED _____CASING THEN _____ CASING TO _____FT. **HOLE NO. MW-21**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

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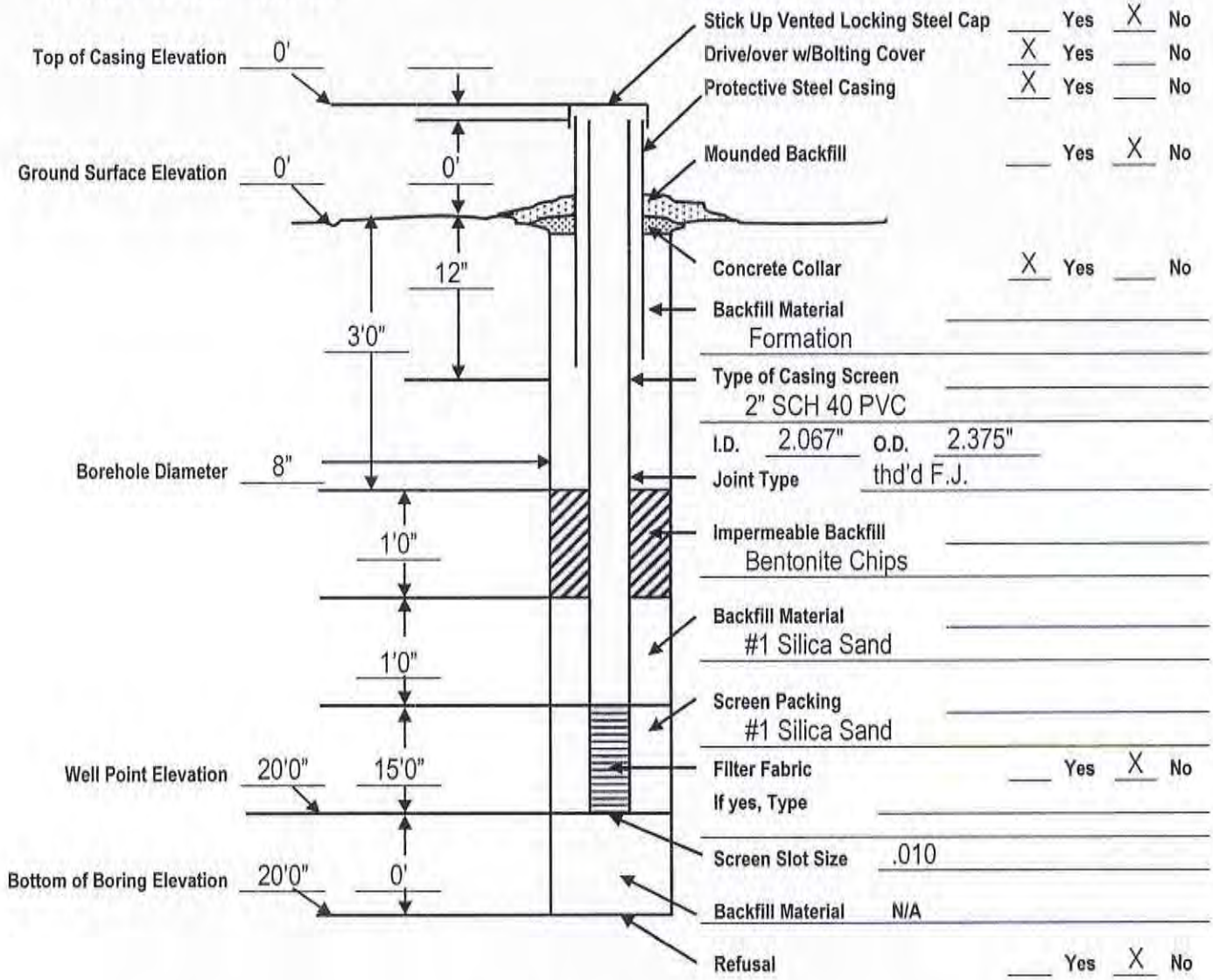
SOILTESTING, INC.

90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies

Monitor Well # MW-21 **JOB #:** E6-9026-12



Screen	15'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1 bag	D/O	1
Slip Cap		Portland Cement		S/U	
Silica Sand	550#				
Powdered Bentonite					

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies Inc.	SHEET 1 OF 1 HOLE NO. MW-22, MW-22A
	PROJECT NO. E6-9026-12	
	PROJECT NAME Former Nu Hart Manufacturing	BORING LOCATIONS per Plan
FOREMAN - DRILLER TP/tb	LOCATION 280 Franklin Street, Brooklyn, New York	
INSPECTOR		OFFSET
GROUND WATER OBSERVATIONS AT 12 FT AFTER 0 HOURS AT __FT AFTER __HOURS		DATE START 2/10/12 DATE FINISH 2/10/12 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		1	ss	18"	8"	2'0"		6			dry		6" CONCRETE
							5	4			loose		red brn FM SAND,sm C sand,lit F gravel,tr brick,concrete,ash
		2	ss	24"	4"	4'0"	5	6			dry		brn FMC SAND,lit F gravel,trick,concrete (fill)
							6	7			loose		
5		3	ss	19"	3"	5'7"	5	6			dry		SAME
							10	50/1"			loose		
												7'0"	Auger refusal
10													E.O.B. 7'0"

GROUND WATER OBSERVATIONS
AT 12 FT AFTER 0 HOURS
AT __FT AFTER __HOURS

0													MW-22A Offset 2'
													Slab 7" thick, loose brick, concrete (fill)
5												5'0"	
													brn FM SAND
		1	ss	24"	11"	10'0"	10	11			dry/moist		brn FM SAND,sm F gravel,lit C sand,tr silt
10							11	10			compact		
		2	ss	24"	18"	12'0"	9	10			wet		brn FM SAND,lit C sand (odor)
							13	9			compact		
		3	ss	24"	18"	14'0"	12	9			wet		gry FMC SAND,lit F gravel (fuel odor)
							7	6			loose		
15													
20												20'0"	
													E.O.B. 20'0" / Set well
25													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____FT. USED _____CASING THEN _____ CASING TO _____FT. **HOLE NO. MW-22, MW-22A**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

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SOILTESTING, INC.

90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies

Monitor Well # MW-22A

JOB #: E6-9026-12

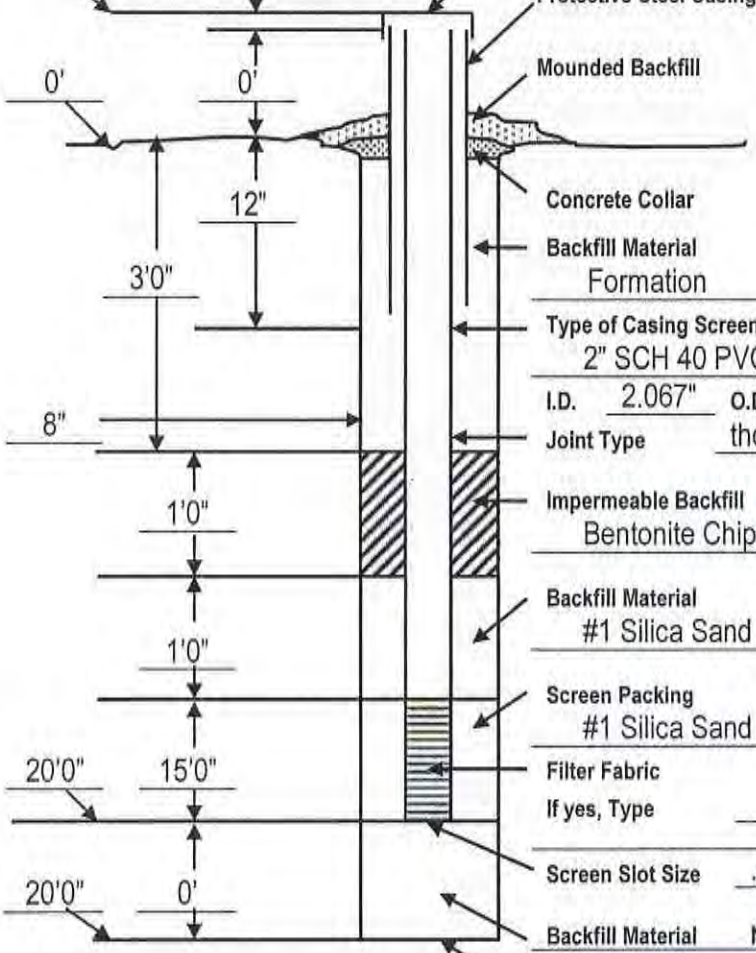
Top of Casing Elevation 0'

Ground Surface Elevation 0'

Borehole Diameter 8"

Well Point Elevation 20'0"

Bottom of Boring Elevation 20'0"



Stick Up Vented Locking Steel Cap	___ Yes	X No	
Drive/over w/Bolting Cover	X Yes	___ No	
Protective Steel Casing	X Yes	___ No	
Mounded Backfill	___ Yes	X No	
Concrete Collar	X Yes	___ No	
Backfill Material	Formation		
Type of Casing Screen	2" SCH 40 PVC		
I.D. 2.067"	O.D. 2.375"		
Joint Type	thd'd F.J.		
Impermeable Backfill	Bentonite Chips		
Backfill Material	#1 Silica Sand		
Screen Packing	#1 Silica Sand		
Filter Fabric	___ Yes	X No	
If yes, Type			
Screen Slot Size	.010		
Backfill Material	N/A		
Refusal	___ Yes	X No	

Screen	15'	Bentonite Pellets		Locking Exp. Plug	1
Riser	5'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1 ½ bags	D/O	1
Slip Cap		Portland Cement	¼ bag	S/U	
Silica Sand	550#				
Powdered Bentonite					

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies Inc.	SHEET 1 OF 1 HOLE NO. MW-23
	PROJECT NO. E23-9127-12	
	PROJECT NAME 280 Franklin Street	BORING LOCATIONS per Plan
FOREMAN - DRILLER PD/pe	LOCATION Brooklyn, New York	
INSPECTOR		OFFSET
GROUND WATER OBSERVATIONS AT 10'6" FT AFTER 0 HOURS AT FT AFTER HOURS		DATE START 7/28/12 DATE FINISH 7/28/12 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		1	ss	18"	10"	2'0"		2			dry/moist	0'4"	CONCRETE
							2	9			loose		brn FM SAND,SILT,F-C GRAVEL,lit cobbles,brick
		2	ss	24"	12"	4'0"	12	7			dry/moist		
							6	6			compact		
5		3	ss	24"	16"	6'0"	2	3			dry/moist	5'0"	
							2	2			loose		lt brn VF FM SAND
		4	ss	24"	16"	8'0"	2	3			dry/moist		
							3	2			loose		
		5	ss	24"	10"	10'0"	2	2			moist		lt brn VF FM SAND
10							2	1			loose		
		6	ss	24"	18"	12'0"	1	1			wet/v mst		brn gry brn FM SAND
				2			1	1			v loose		
		7	ss	24"	18"	14'0"	1	1			wet/v mst		
							2	2			v loose		
15													
													SAME
20												20'0"	
25													E.O.B. 20'0"
30													
35													
40													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____FT. USED _____CASING THEN _____ CASING TO _____FT. **HOLE NO. MW-23**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

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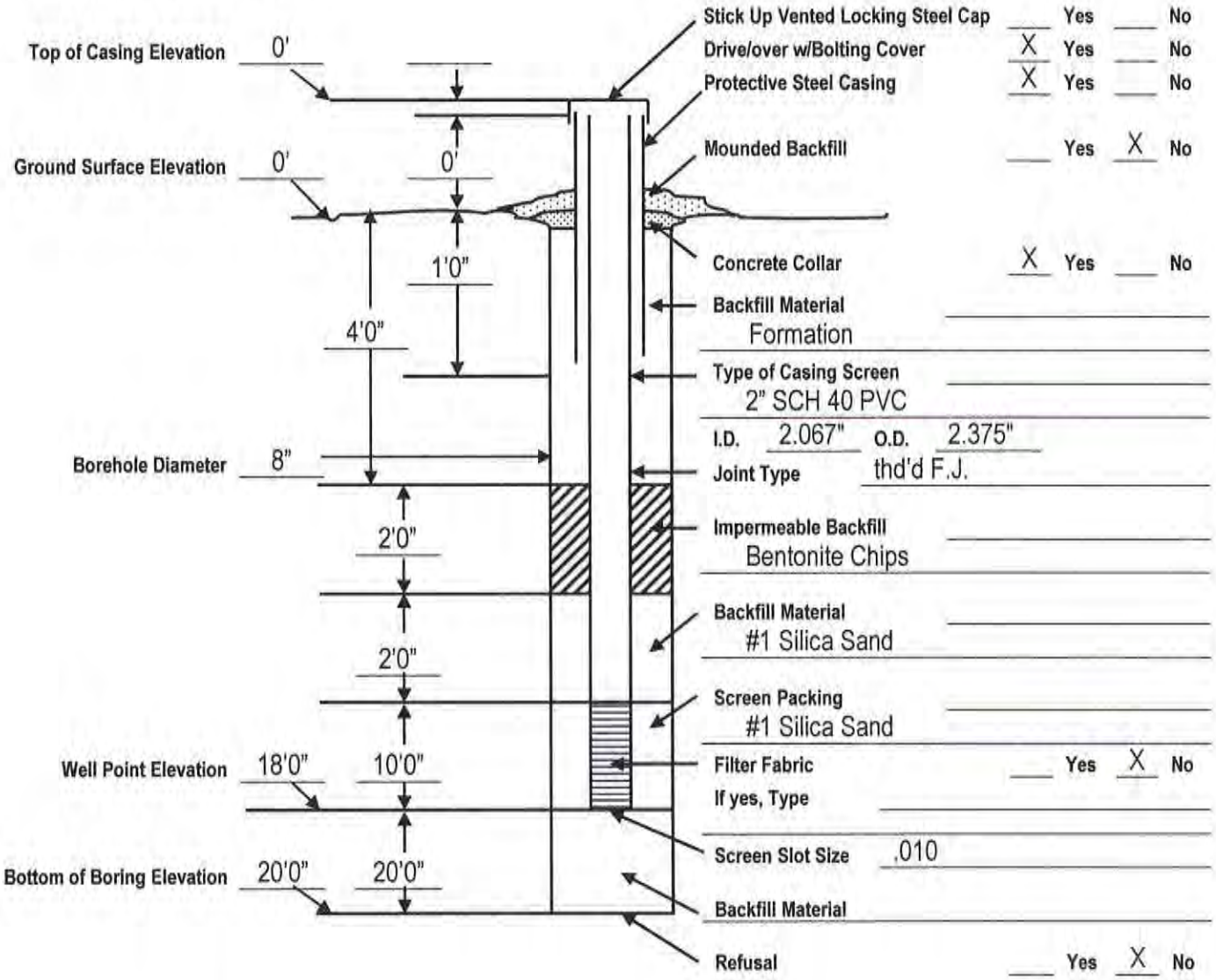
SOILTESTING, INC.

90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies Inc.

Monitor Well # MW-23 **JOB #:** E23-9127-12



Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	10'	Bentonite Chips	2/3 bag	Lock	
Plug	1	Concrete Mix	1 1/3 bags	D/O	6"
Slip Cap		Portland Cement		S/U	
Silica Sand	400#				
Powdered Bentonite					

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies Inc.	SHEET 1 OF 1 HOLE NO. MW-24
	PROJECT NO. E23-9127-12	
	PROJECT NAME 280 Franklin Street	BORING LOCATIONS per Plan
FOREMAN - DRILLER DJD/pe PD/pe	LOCATION Brooklyn, New York	
INSPECTOR		OFFSET
GROUND WATER OBSERVATIONS AT 11'6" FT AFTER 0 HOURS AT __FT AFTER __HOURS		DATE START 6/19/12 DATE FINISH 7/28/12 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC.	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
											moist	0'10"	CONCRETE
													brn FM SAND, SILT, F-C GRAVEL,cobbles
												3'6"	Auger refusal
5													E.O.B. 3'6"
GROUND WATER OBSERVATIONS AT 11'6" FT AFTER 0 HOURS AT __FT AFTER __HOURS													
0													MW-24A
											moist	0'2"	ASPHALT
													brn FM C SAND,SILT,F-C GRAVEL,sm cobbles
5													
		1	ss	24"	6"	7'0"	16	7			moist		
							6	6			compact		
		2	ss	24"	—	9'0"	10	9			moist		
							8	10			compact	9'0"	
10		3	ss	24"	12"	11'0"	10	12			wet		red brn SILT,sm FM sand,F-C gravel,lit cobbles
							14	16			compact		
		4	ss	24"	20"	13'0"	3	4			wet	11'6"	red brn SILT
							3	3			loose		lt brn VF F SAND
		5	ss	24"	18"	15'0"	2	3			wet		
15							3	3			loose		lt brn orng brn FMC SAND,lit F gravel
20												20'0"	
25													E.O.B. 20'0"
30													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____FT. USED _____CASING THEN _____ CASING TO _____FT. **HOLE NO. MW-24**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

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SOILTESTING, INC.

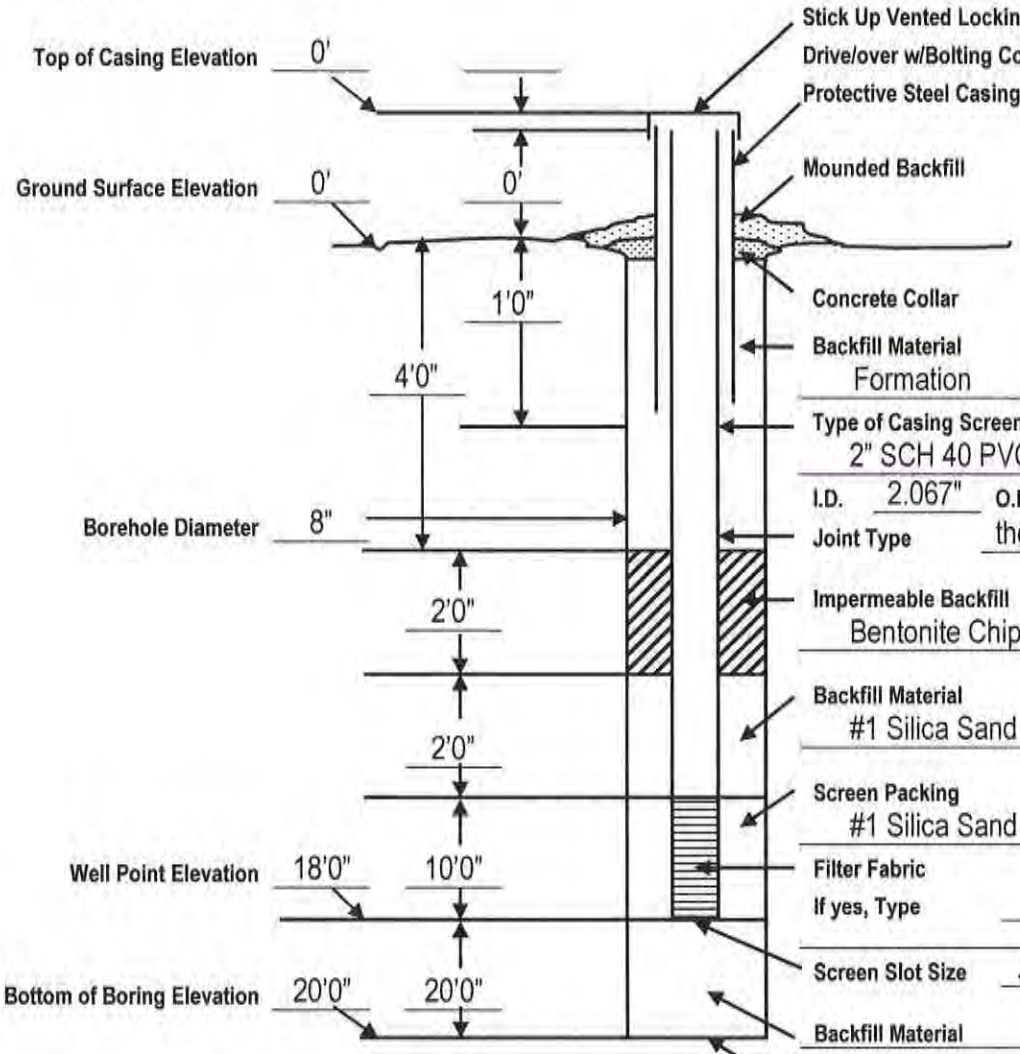
90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies Inc.

Monitor Well # MW-24

JOB #: E23-9127-12



Stick Up Vented Locking Steel Cap	___ Yes	___ No	
Drive/over w/Bolting Cover	X Yes	___ No	
Protective Steel Casing	X Yes	___ No	
Mounded Backfill	___ Yes	X No	
Concrete Collar	X Yes	___ No	
Backfill Material	Formation		
Type of Casing Screen	2" SCH 40 PVC		
I.D. 2.067"	O.D. 2.375"		
Joint Type	thd'd F.J.		
Impermeable Backfill	Bentonite Chips		
Backfill Material	#1 Silica Sand		
Screen Packing	#1 Silica Sand		
Filter Fabric	___ Yes	X No	
If yes, Type			
Screen Slot Size	.010		
Backfill Material			
Refusal	___ Yes	X No	

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	10'	Bentonite Chips	2/3 bag	Lock	
Plug	1	Concrete Mix	1 1/3 bags	D/O	6"
Slip Cap		Portland Cement		S/U	
Silica Sand	400#				
Powdered Bentonite					

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies Inc.	SHEET 1 OF 1 HOLE NO. MW-25
	PROJECT NO. E23-9127-12	
	PROJECT NAME 280 Franklin Street	BORING LOCATIONS per Plan
FOREMAN - DRILLER PD/pe	LOCATION Brooklyn, New York	
INSPECTOR		OFFSET
GROUND WATER OBSERVATIONS AT 11'0" FT AFTER 0 HOURS AT FT AFTER HOURS		DATE START 7/28/12 DATE FINISH 7/28/12 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC.	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		1	ss	18"	10"	2'0"		12			moist	0'6"	CONCRETE
							6	3			compact		brn drk brn SILT,FMC SAND,F-C GRAVEL,lit brick frags,
		2	ss	24"	12"	4'0"	4	3			moist		cobbles
							3	4			loose		
5		3	ss	24"	14"	6'0"	2	3			moist		
							2	2			loose		
		4	ss	24"	12"	8'0"	3	4			moist		brn SILT,sm FM sand
							4	5			loose		
		5	ss	24"	20"	10'0"	4	5			v moist	9'0"	
10							6	10			compact		drk gry VF F SAND & SILT
		6	ss	24"	22"	12'0"	3	4			wet	10'6"	gry gry brn VF F SAND & SILT
							3	3			loose		gry brn FMC SAND,lit F gravel
		7	ss	24"	19"	14'0"	2	3			wet		
							3	3			loose		
15													
20												20'0"	
25													E.O.B. 20'0"
30													
35													
40													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____FT. USED _____CASING THEN _____ CASING TO _____FT. **HOLE NO. MW-25**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

Phone
(203) 262-9328

Telefax
(203) 264-3414

WHITE PLAINS, N.Y.
(914) 946-4850

SOILTESTING, INC.

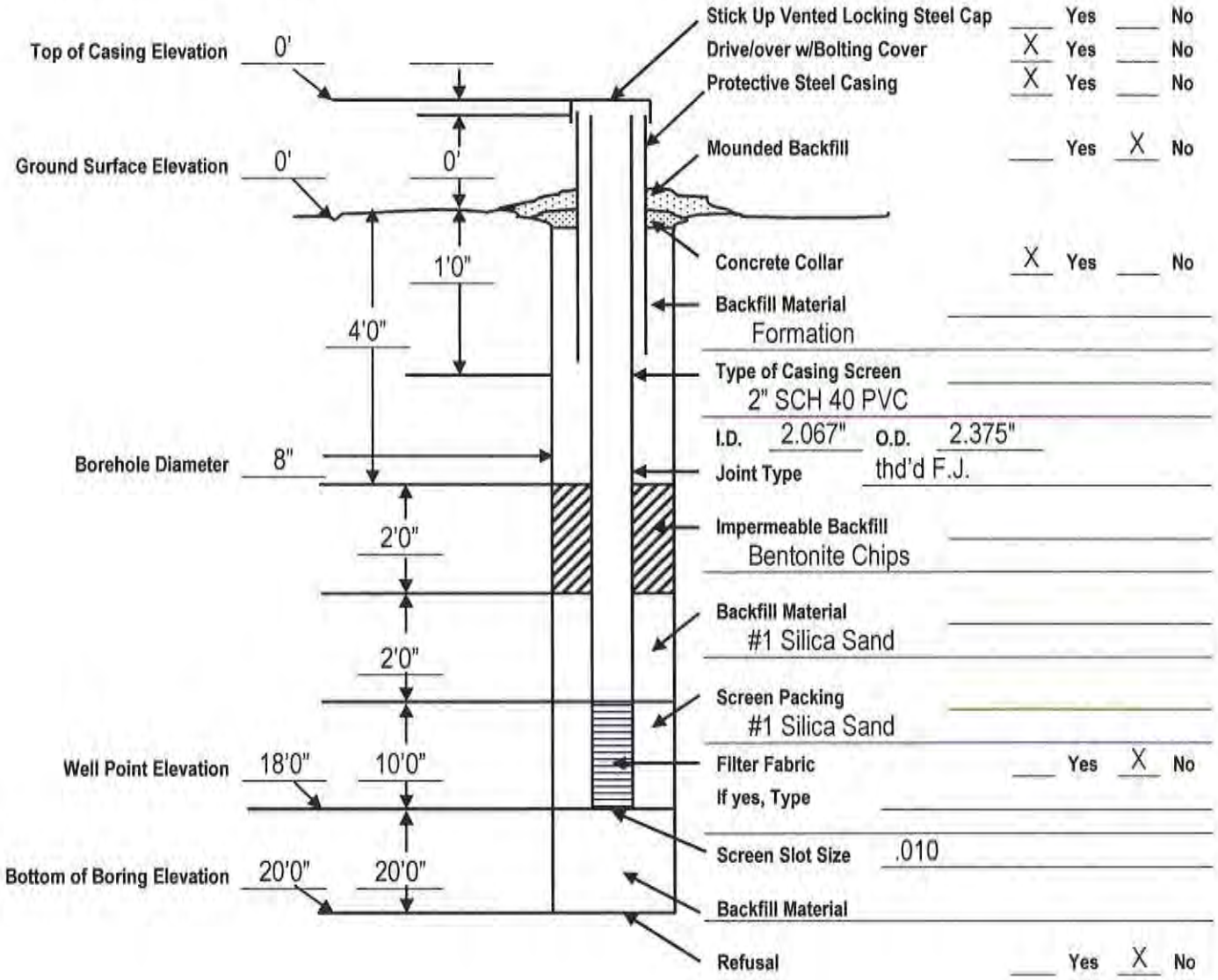
90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies Inc.

Monitor Well # MW-25

JOB #: E23-9127-12



Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	10'	Bentonite Chips	2/3 bag	Lock	
Plug	1	Concrete Mix	1 1/3 bags	D/O	6"
Slip Cap		Portland Cement		S/U	
Silica Sand	400#				
Powdered Bentonite					

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies	SHEET 1 OF 1 HOLE NO. M-26
	PROJECT NO. E46-9205-12	
	PROJECT NAME: Dupont Street	BORING LOCATIONS: per Plan
FOREMAN - DRILLER: PD/Joe	LOCATION: Brooklyn, New York	
INSPECTOR		OFFSET
GROUND WATER OBSERVATIONS AT 10'6" FT AFTER 0 HOURS AT __FT AFTER __HOURS		DATE START 9/24/12 DATE FINISH 9/24/12 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC.	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
												0'8"	CONCRETE
													Process stone cobbles,asphalt,brick frags
												1'6"	Brn FM SAND, SILT, F-C GRAVEL
5													red brn lt brn SILT, FMC SAND, F-C GRAVEL,lit cobbles
10												10'0"	
		1	ss	24"	10"	12'0"	4	5			wet		brn lt brn FMC SAND,lit silt,F-C gravel
							6	9			compact		
		2	ss	24"	10"	14'0"	9	15			wet		
							29	34			dense		
15		3	ss	24"	18"	16'0"	15	18					
							17	19					
20												20'0"	
													E.O.B. 20'0"
25													
30													*(A hole / Concrete @ 1'6" obstruction 8" sidewalk)*
35													
40													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____FT. USED _____CASING THEN _____ CASING TO _____FT. **HOLE NO. M-26**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

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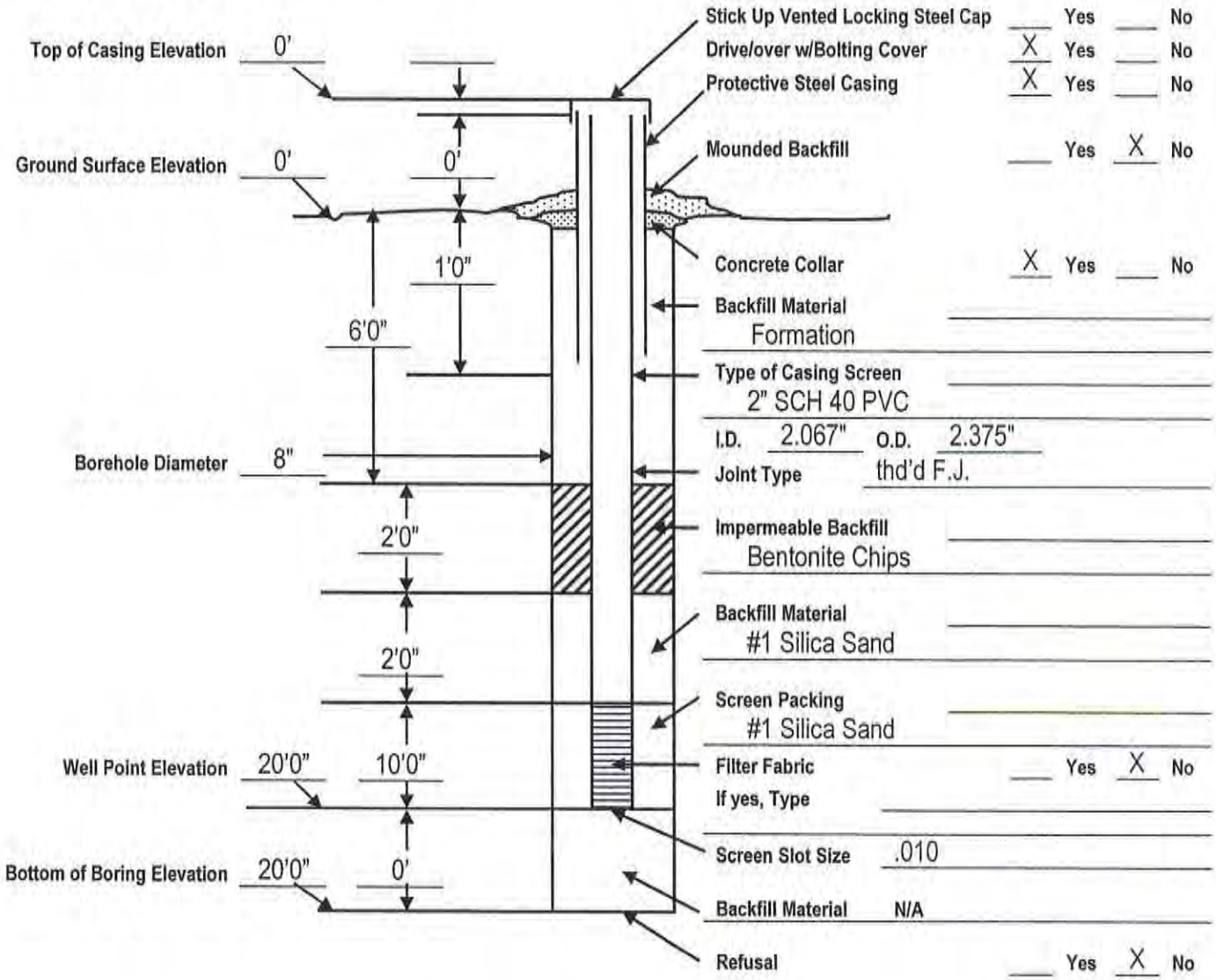
90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies
JOB #: E46-9205-12

Monitor Well # MW 26



Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	10'	Bentonite Chips	½	Lock	
Plug	1	Concrete Mix	1	D/O	6"
Slip Cap		Portland Cement		S/U	
Silica Sand	400#				
Powdered Bentonite					

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies	SHEET 1 OF 1 HOLE NO. MW-27
	PROJECT NO. E46-9205-12	
	PROJECT NAME Dupont Street	BORING LOCATIONS per Plan
FOREMAN - DRILLER PD/Joe	LOCATION Brooklyn, New York	
INSPECTOR		OFFSET
GROUND WATER OBSERVATIONS AT 12 FT AFTER 0 HOURS AT FT AFTER HOURS		DATE START 9/24/12 DATE FINISH 9/24/12 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC.	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
												0'6"	CONCRETE
													brn orng brn SILT,FMC SAND,lit F-C gravel
5													
													brn orng brn FMC SAND, F-C GRAVEL,sm silt,lit cobble
10													
		1	ss	24"	18"	12'0"	6	6			v moist		lt brn brn VF FMC SAND,lit silt
							8	8			compact		
		2	ss	24"	19"	14'0"	8	8			wet		
							8	8			compact		SAME
15		3	ss	24"	18"	16'0"	8	9			wet		
							10	12			compact		
20												20'0"	
													E.O.B. 20'0"
25													
30													
													(A hole 6" Concrete core [10"] refusal 4' obstruction)
35													
40													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT. **HOLE NO. MW-27**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

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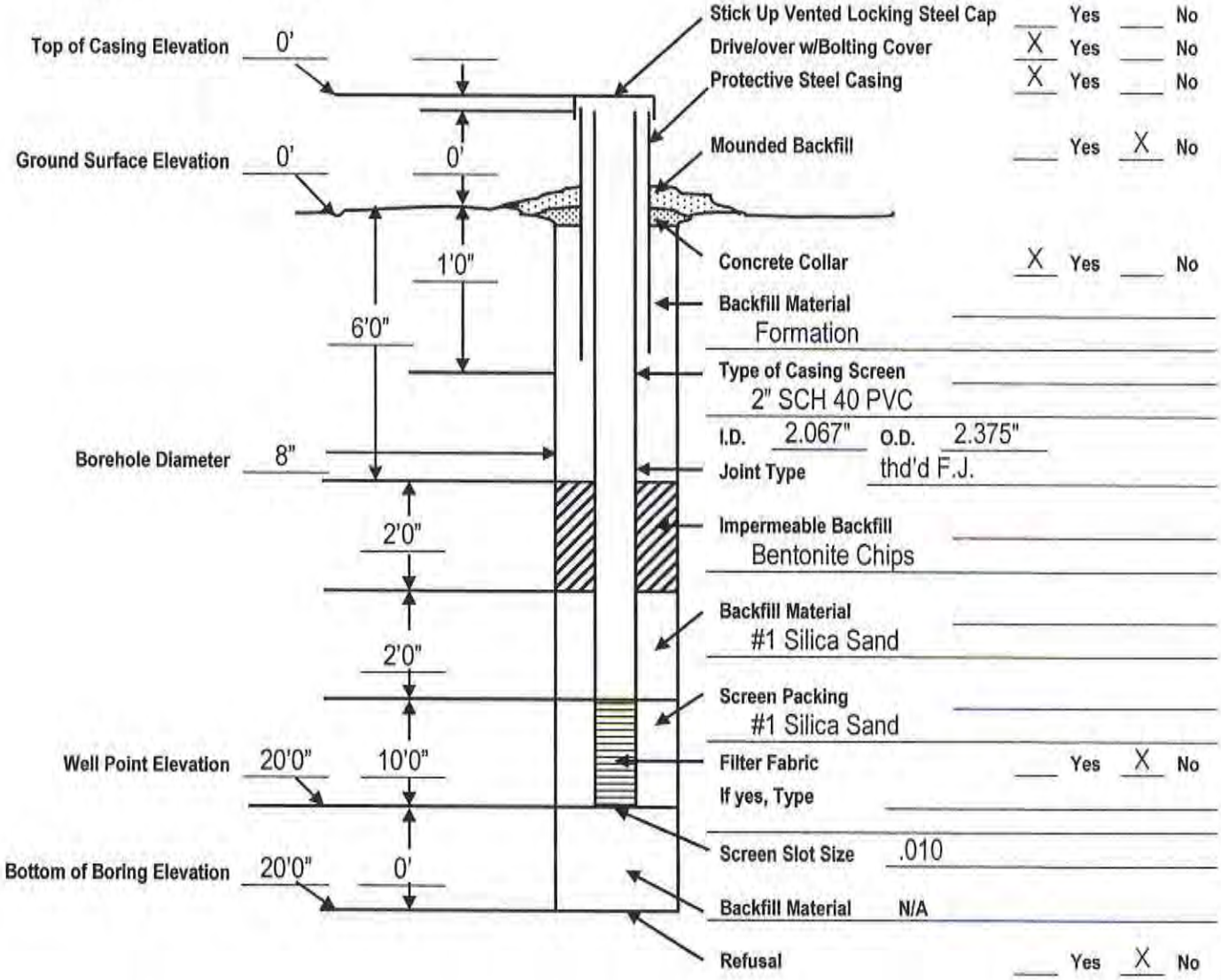
GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies

Monitor Well # MW 27

JOB #: E46-9205-12



Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	10'	Bentonite Chips	½	Lock	
Plug	1	Concrete Mix	1	D/O	6"
Slip Cap		Portland Cement		S/U	
Silica Sand	400#				
Powdered Bentonite					

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies	SHEET 1 OF 1 HOLE NO. B-28
	PROJECT NO. E1-9289-13	
	PROJECT NAME Dupont & Franklin Streets	BORING LOCATIONS per Plan
FOREMAN - DRILLER PD/jm	LOCATION Brooklyn, New York	
INSPECTOR		OFFSET
GROUND WATER OBSERVATIONS AT 11 FT AFTER 0 HOURS AT FT AFTER HOURS		DATE START 1/15/13 DATE FINISH 1/15/13 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
												0'8"	5" CONCRETE / 3" GRAVEL
													brn FMC SAND,lit F gravel
5													
		1	ss	24"	18"	7'0"	12	14			moist		lt brn FM SAND,tr C sand
							18	22			dense		lt brn MC SAND,tr F sand
10													
		2	ss	24"	12"	12'0"	13	19			moist		brm VF F SAND & SILT,lit MC sand,tr F gravel
							18	21			dense		
15													
		3	ss	24"	12"	17'0"	3	5			wet		brn VF F SAND,sm silt,tr M sand
							7	9			compact		
20												20'0"	
													E.O.B. 20'0"
25													
30													
35													
40													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT. **HOLE NO. B-28**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

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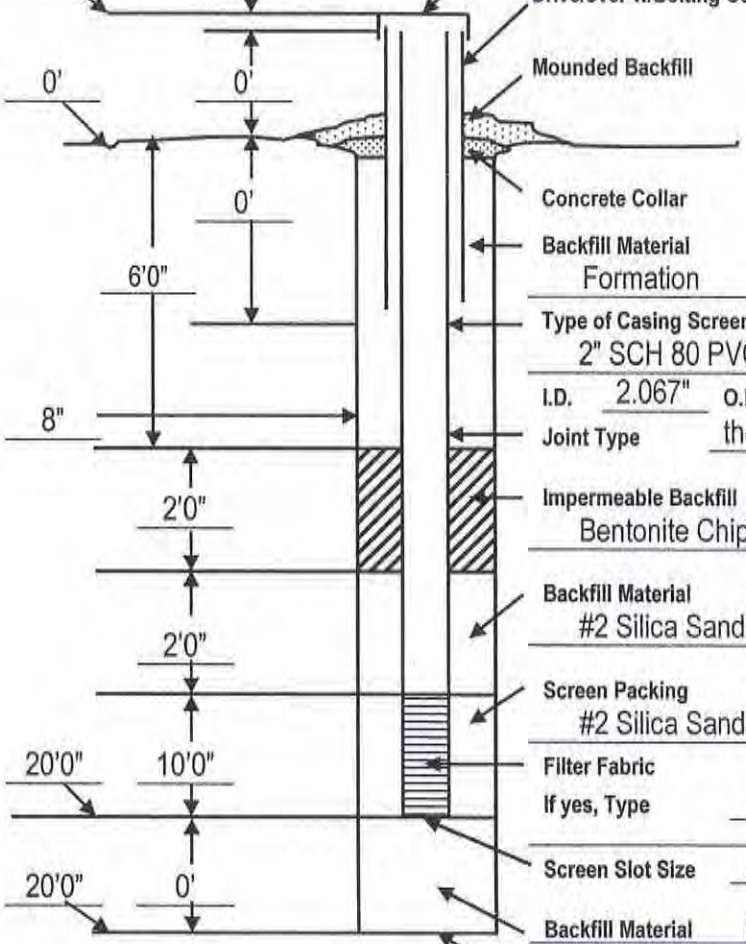
GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies
JOB #: E1-9289-13

Proposed Injection Well # MW-28



Stick Up Vented Locking Steel Cap ___ Yes X No

Drive/over w/Bolting Cover X Yes ___ No

Mounded Backfill ___ Yes X No

Concrete Collar X Yes ___ No

Backfill Material Formation

Type of Casing Screen 2" SCH 80 PVC

I.D. 2.067" O.D. 2.375"

Joint Type thd'd F.J.

Impermeable Backfill Bentonite Chips

Backfill Material #2 Silica Sand

Screen Packing #2 Silica Sand

Filter Fabric ___ Yes X No

If yes, Type ___

Screen Slot Size .010

Backfill Material N/A

Refusal ___ Yes X No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	10'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1 bag	D/O	1
Slip Cap		Portland Cement	½ bag	S/U	
Silica Sand	400#				
Powdered Bentonite					

SOILTESTING, INC. 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: Ecosystems Strategies	SHEET 1 OF 1 HOLE NO. MW-29
	PROJECT NO. E1-9289-13	
	PROJECT NAME Dupont & Franklin Streets	BORING LOCATIONS per Plan
FOREMAN - DRILLER MD/pe	LOCATION Brooklyn, New York	
INSPECTOR		OFFSET
GROUND WATER OBSERVATIONS AT 11 FT AFTER 0 HOURS AT FT AFTER HOURS		DATE START 1/8/13 DATE FINISH 1/8/13 SURFACE ELEV. GROUND WATER ELEV.

	CASING	SAMPLER	CORE BAR
TYPE	HSA	SS	
SIZE I.D.	4 ¼"	1 3/8"	
HAMMER WT.		140#	BIT
HAMMER FALL		30"	

DEPTH	CASING BLOWS PER FOOT	SAMPLE NO	Type	PEN	REC	DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6	6 - 12	12- 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST / MOIST	STRATA CHANGE DEPTH / ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		1	ss	18"	12"	2'0"	—	4			dry	0'6"	CONCRETE
							7	6			compact		brn FM SAND,lit C sand,tr F gravel
		2	ss	24"	13"	4'0"	4	3			dry		SAME
							4	6			loose		
5		3	ss	24"	0"	6'0"	7	9			dry		No recovery
							7	8			compact		
		4	ss	24"	12"	8'0"	7	8			dry		lt brn M SAND,tr silt
							7	9			compact		
		5	ss	24"	15"	10'0"	6	7			dry		lt brn M-C SAND,lit F gravel,tr silt
10							7	4			compact		
		6	ss	24"	13"	12'0"	2	3			wet		
							3	4			loose		brn FM SAND,sm C sand,lit F gravel,tr silt
15													
20												20'0"	
													E.O.B. 20'0" - Set well at 20'
25													
30													
35													
40													

NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT. **HOLE NO. MW-29**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST

WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE

SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM

PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND =35 - 50% F = FINE

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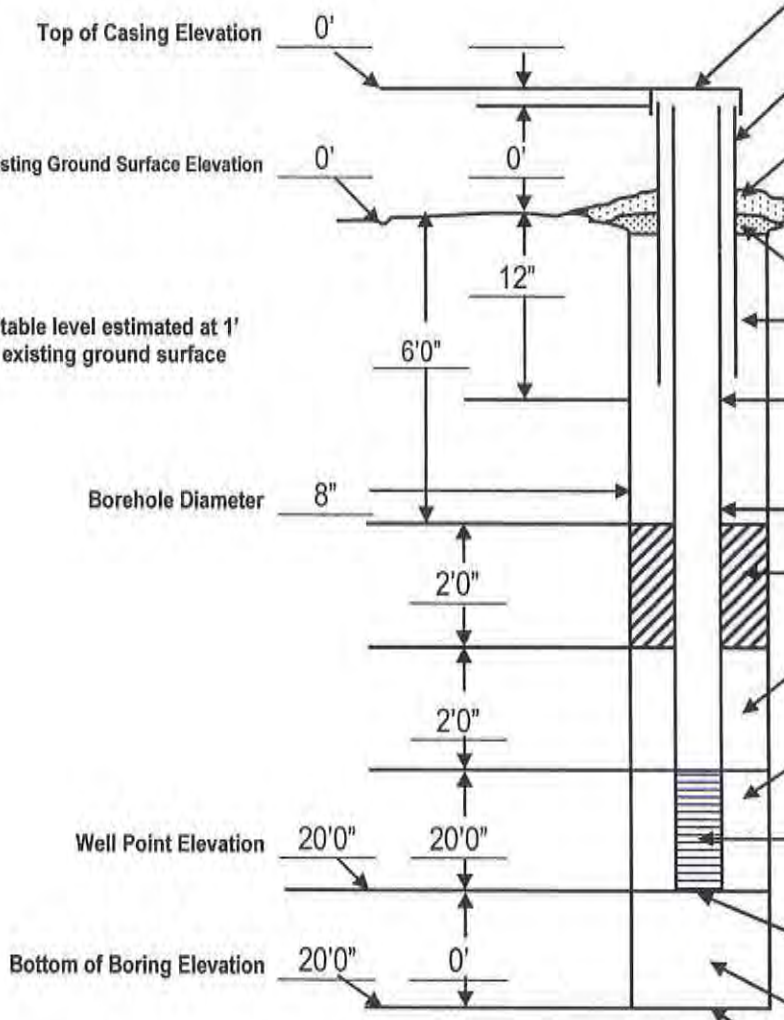
90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling
UNDERPINNING - HELICAL PILES - SOIL NAILS

CLIENT: Ecosystems Strategies
JOB #: E1-9289-13

Proposed Injection Well # MW-29



Stick Up Vented Locking Steel Cap ___ Yes X No
Drive/over w/Bolting Cover X Yes ___ No
Mounded Backfill ___ Yes X No
Concrete Collar X Yes ___ No
Backfill Material Formation
Type of Casing Screen 2" SCH 80 PVC
I.D. 2.067" O.D. 2.375"
Joint Type thd'd F.J.
Impermeable Backfill Bentonite Chips
Backfill Material #2 Silica Sand
Screen Packing #2 Silica Sand
Filter Fabric ___ Yes X No
If yes, Type ___
Screen Slot Size .010
Backfill Material N/A
Refusal ___ Yes ___ No

Screen	10'	Bentonite Pellets		Locking Exp. Plug	1
Riser	10'	Bentonite Chips	½ bag	Lock	
Plug	1	Concrete Mix	1 bag	D/O	1
Slip Cap		Portland Cement		S/U	
Silica Sand	350#				
Powdered Bentonite					

ZEBRA: Daily Project Report

Project Day & Date: 7/31/13

ZEBRA Office: Jackson Crew Base: _____

Z#: _____ ZEBRA Unit #/Type: _____

PROJECT NAME: _____

PROJECT LOCATION: 280 Franklin ST Brooklyn NY

CLIENT/OFFICE: ecosystemsstrategies

Client Project # _____

Client PM: _____ Client Site Contact: _____

Name/Company	Start	Arrive	Leave	Finish	Total Site Time	OT	Client Intl
Marc		7:00	2:00				
Steve		7:00	2:00				
Other Personnel On Site:							

Description of Work (detailed):

installed 3 pre-packs 2"
1) 20' with 10' screen
2) 18' with 10' screen
3) 17' with 10' screen
Soil sampled each well first

APP DGW:

MATERIALS	QTY. USED	UNIT	EQUIPMENT	
MC Liners	6	Liners	Air Knife / Vac Ex	
Expendable Points		Points	Core Drill / Generator / Demo Saw	
"x 5' PVC Screen		PC's	Decon Pads	
"x 5' PVC Riser		PC's	Pump / Type_____	
PVC Points		Points	Steam / Pressure Washer	
Flush Mount Well Box/J-Plug		Boxes	Trailer (Decon / Utility)	
Tubing		Rolls	OTHER:	
Sand		Bags		
Bentonite/Hole Plug		Bags	2"x5' prepack screens	6
Asphalt/Blacktop		Bags	2"x5' casing	6
Portland Cement/Concrete		Bags		
Drums (55 Gal.)			6" manholes	3
			sacket	2

Probe Tools Damaged / Lost:

Number of Points	Number of Samples	Soils	GW	Soil Vapor	Wells Installed Describe:

Field Verification:

ZEBRA: _____ CLIENT (Print): _____

(Sign): A. Atkins

ZEBRA: Daily Project Report

Project Day & Date: 8/1/13

ZEBRA Office: Jackson Crew Base:

Z#: ZEBRA Unit #/Type:

PROJECT NAME:

PROJECT LOCATION: 280 Franklin ST Brooklyn NY

CLIENT/OFFICE: ecosystem strategies

Client Project #

Client PM: Client Site Contact:

Name/Company	Start	Arrive	Leave	Finish	Total Site Time	OT	Client Intl
Mark		7:00	2:00				
Steve		7:00	2:00				
Other Personnel On Site:							

Description of Work (detailed):

installed 2 2" pre-pack wells to 22'

7 soil samples from 10'-15'

APP DGW:

MATERIALS	QTY. USED	UNIT	EQUIPMENT	
MC Liners	7	Liners	Air Knife / Vac Ex	
Expendable Points		Points	Core Drill / Generator / Demo Saw	
"x 5' PVC Screen		PC's	Decon Pads	
"x 5' PVC Riser		PC's	Pump / Type	
PVC Points		Points	Steam / Pressure Washer	
Flush Mount Well Box/J-Plug		Boxes	Trailer (Decon / Utility)	
Tubing		Rolls	OTHER:	
Sand	1	Bags	2"x5' pre-pack screens	4
Bentonite/Hole Plug	3	Bags	2"x5 casing	6
Asphalt/Blacktop		Bags		
Portland Cement/Concrete		Bags	2" Tops	2
Drums (55 Gal.)			2" plugs	2

Probe Tools Damaged / Lost:

Number of Points	Number of Samples	Soils	GW	Soil Vapor	Wells Installed Describe:

Field Verification:

ZEBRA: CLIENT (Print):

(Sign): A. Atkinson

APPENDIX E

Previous Environmental Reports

ADVANCED SITE RESTORATION, LLC
ENVIRONMENTAL SERVICES

Spill # 0601852
Underground Tank Closure Report
49-55 Dupont St., Brooklyn, New York 11222

Prepared on Behalf of:
49 Dupont Realty Corporation

Prepared By:
Alberto Baruffi
Advanced Site Restoration, LLC

July 2006

Alberto Baruffi
Project Professional

Steve Muller
Project Manager

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1. Submittal Information

NYSDEC Spill Number
SPILL # 0601852

NYSDEC Case Manager:
Raphael Katani

Site Owner:
49 Dupont Realty Corporation

Location of Subject Property:
47-55 Dupont St.
Brooklyn N.Y. 11222

2. Scope of Project

This Underground Storage Tank Closure Report documents the results of the investigation and closure of seventeen (17) underground storage tanks (USTs) at the subject site. This investigation was conducted by Advanced Site Restoration, LLC (ASR), contracted by the 49 Dupont Realty Corp. to oversee the tank closure activities.

This report details the filling of underground storage tanks in accordance with New York State Department of Environmental Conservation (NYSDEC), Spill Prevention Operations Technology Series (SPOTS) Memo #14, Site Assessments at Bulk Storage Facilities (August 1994). The scope of this report includes the following:

- Review of the New York State regulatory agency records for the site and the immediate surrounding area;
- Collection of soil samples throughout the site and in close proximity of the underground storage tanks (UST's) for laboratory testing.
- Explanation of the means to close out the seventeen (17) UST's on site.
- Summary of the analytical findings respective to the NYSDEC TAGM 4046, Allowable Soil Concentrations.

3. General Site Data

Site Description: The subject site is New York City Tax Block is 2487 and the Tax Lots 1, 10, 12, 17, 18, 20, 21, 57, 72, and 78. The current owner since 1983, is the 49 Dupont Realty Corporation.

The subject site is a former manufacturing facility. The New York City Department of Finance Occupancy Code is "F-9, Factory Industrial." According to a Sanborn Map Report from Environmental Data Resources, industrial activity at the subject site dates as far back as 1887.

Historic use of the site has included manufacturing, office, storage, shipping and receiving. Specifically, the site has been a plastic manufacturing facility since approximately 1950. According to *FPM Group* who completed a Phase I Site Assessment for the subject site, the commercial uses prior to 1950 included a boiler shop for Logan Ironworks, two stable buildings, a gas and light fixture factory, a sheet metal works, a soap manufacturer, a water proofing manufacturer, and a scrap metal facility.

The North American Industry Classification System (NAICS) listing for the subject site is "Plastic Fitting and Plastic Manufacturing". The factory at the subject site was most recently used to manufacture vinyl sheeting. It had been used as such a facility for the greater part of the 20th Century. As of 2004, the factory ended its manufacturing operations. The subject site is currently being used by NuHart & Company to store vinyl products. The in-situ environmental remediation currently being performed by ASR began in May 2006. A full Phase II Site Investigation is currently underway as required for future redevelopment.

According to the United States Geological Survey (USGS) Brooklyn, New York 7.5 Minute Series Topographical Map, the Site is situated at an approximate elevation of 13 feet above mean sea level. The location of the Site is shown on the Site Location Map, Figure 1, Appendix A.

In September of 2004, a visual reconnaissance of the site was performed by *RTP Environmental Associates* (RTP) Suspicion of asbestos was reported throughout the site. Four (4) silos used to store poly vinyl chloric acid were observed on the west side of the property. RTP reported a drum storage area with drums containing petroleum products. Plasticizers were also found in several areas of the subject site in drums and in concrete lined piping trenches. Currently, all asbestos issues are being addressed by a licensed asbestos abatement company. The on–site contamination, including that of plasticizers is being fully delineated in preparation for environmental remediation.

There are a number of Underground Storage Tanks (USTs) at the subject site. Overall, the installation of UST's at the subject site had not been thoroughly documented. Perhaps this is due to the time frame and the multiple uses of the property. As a result, past environmental reports have not been consistent in terms of the number of tanks on site, their sizes, or their contents.

ASR field activities have confirmed the locations of these tanks, their sizes and their contents. Field activities include drilling, calculating the foam used to fill up the tanks, and fingerprint samples from within the tanks.

An EDR Report is attached as Appendix H.

A total of seventeen (17) tanks were found to be on site containing the following:

- Fuel oil
- Plasticizers
- Acetone
- Methyl tert butyl ketone

In July of 2006, ASR filed a CBS report with the NYSDEC, see Appendix B.

Surrounding Land Use: The surrounding use of the site is a mix of commercial, residential, manufacturing, and recreational. There are a number of mixed use lots with both residential and manufacturing. To the north of the site is a warehouse and a hardware store beyond which is an automotive lot (as seen in Appendix A, Figure 2-Aerial Photograph). To the east down Clay Street and Dupont Street are several multi-family residential units. To the south across Dupont Street there are apartments and more residential units. To the west is a New York City Park.

Sensitive Receptor Survey: Inside the facility at the subject site, numerous sewer vents can be seen on both the north and south sides. In addition there is the possibility that a bottom drain(s) is located beneath a series of pits at the subject site. This means that subsurface soils and groundwater may have been impacted by discharge from the facility. The East River is 200 meters to the west of the site. As mentioned in the Surrounding Land Use Section, there are residential units to the east and the south of the subject site. These residential units are directly adjacent to the site.

An EDR Report is Attached as Appendix H.

4.0 Regional Geology/Hydrogeology

The subject site is located in Brooklyn, New York. The elevation of the site, as presented on the United States Geologic Survey (USGS), Manhattan Quadrangle Map (1995), is approximately 13 feet above sea level (Figure 1, Appendix A). The subject site lies within an area classified as Urban Land. This soil type consists of urbanized areas where the majority of surface is covered with buildings, roads, driveways, parking lots, and other manmade structures.

A USGS Survey of Water Table Elevation concluded that the elevation of the water table at the subject site was approximately five (5) feet above Mean Sea Level. The direction of groundwater flow is most likely to the west-southwest.

5.0 Previous Investigations/Historical Review

The subject site is classified as a Small Quantity, RCRA Hazardous Waste Generator.

As previously mentioned, RTP Environmental Associates, Inc. of 400 Post Road, Westbury New York, conducted a Preliminary Phase I Site Assessment. The report mentioned issues such as the need to:

- Identify environmental concerns regarding the 10,000 gallon USTs
- Test the integrity of certain tanks
- Clean the inside of the building
- Get the building up to code with NYC Building Dept.
- Perform additional environmental investigations
- Identify the means of demolition and waste disposal

As stated in the Conclusion section of the RTP report, the main area of "potential environmental concern" within the property are the tanks and the piping/vent lines associated with them.

In addition to the aforementioned report, FPM Group of 909 Marconi Avenue, Ronkonkoma New York, conducted a Phase I Environmental Site Assessment in April 2005. This report was much more detailed than the previous. As in the RTP report, this more recent report identified several Areas of Concern. They include:

- UST's, both known and suspected
- Oil-Water Separator
- Sub grade pipe chaseways (trenches)
- Loading Dock Drain
- Drum Storage Area
- Printing Press Pits
- Asbestos
- Silos
- Freight Elevator
- Oil Stained Walls
- Groundwater and soil gas (site wide)

6.0 On Site Activities

As stated in the previous section, there are a number of environmental concerns associated with the subject site. ASR utilized all available resources including sub contractors specializing in certain areas of remediation to address these issues. The oil stained trenches with suspected hydrocarbon and plasticizers mentioned in previous reports were thoroughly addressed. ASR personnel shoveled out sludge, dirt, and product into 55 gallon DOT Ring Top Drums. These drums were sampled and can be seen in Appendix A- Figure 6-Photographs, along with the contaminated trenches. To address residual staining, ASR personnel applied the L-10, surfactant to the bottom of the trenches, shoveled, swept, and used squeegees to clean the trench bottom, walls, and oil/water separators. Please see Appendix A, Figure 6 –Photographs to view some of the drums and trenches.

All known tanks have been properly closed out as stated in Section 7.0 Underground Tank Closure Methodology, in more detail.

The known asbestos throughout the site will be abated by a licensed asbestos abatement company.

Removal of the boilers and silos will be performed by a licensed demolition company.

All waste was properly disposed of. Please see Section 9-Waste Disposal.

7.0 Underground Tank Closure Methodology

The following table is a list of all the tanks present at the subject site. All information is based on the best available data to the consultant, Advanced Site Restoration.

Table 1 - List of Tanks

TANK #	SIZE (gal)	CONTENT	BLOCK 2487, LOT:
1	10,000	#2 Fuel Oil	18
2	10,000	#2 Fuel Oil	20
3	1,500	#2 Fuel Oil	20
4	1,500	Methyl Tert Butyl Ketone	21
5	1,500	Acetone	21
6	6,000	DINP/DOP	72
7	6,000	DINP/DOP	72
8	10,000	711 (Diundecyl Phthalate)	78
9	10,000	711 (Diundecyl Phthalate)	78
10	5000	Extra Super Hecla Oil	1
11	5000	Extra Super Hecla Oil	1
12	5000	Extra Super Hecla Oil	1
13	5000	Extra Super Hecla Oil	1
14	10,000	DINP/DOP	1
15	6,000	DINP/DOP	1
16	6,000	Plasticizer	10
17	1,500	Plasticizer	1

*The MSDS sheets for these products are attached as Appendix D

The goal of the on site activities conducted by Advanced Site Restoration, on the USTs, was to get permanent closure of the tanks. In order to do so, the following steps had to be followed in accordance with Section 613.9, Part B, in the NYSDEC Petroleum Bulk Storage Regulations:

I. "Liquid and sludge must be removed from the tank and the connecting lines. Any waste products removed must be disposed of in accordance with all applicable state and federal requirements."

II. "The tank must be rendered free of petroleum vapors. Provisions must be made for natural breathing of the tank, to ensure that the tank remains vapor free."

III. "All connecting lines must be disconnected and removed or securely capped or plugged. Manways must be securely fastened in place."

IV. "Aboveground tanks must be stenciled with the date of permanent closure."

V. "Underground Storage Tanks must either be filled with a solid inert material (such as sand or concrete slurry) or removed.

VI. "Aboveground tanks must be protected from floatation in accordance with good engineering practice"

As a means to close out all if seventeen (17) known UST's on site, following the aforementioned regulations, ASR retained Tridon Industries Inc. to perform a "Closure In Place." In order to do so, Tridon Industries used the Polymaster R 501 product, a foam that can be used to fill tanks and seal them. The foam is a solid inert material. According to Polymaster, the foam is made from aminoplast, tri-polymer, kiln-dried resin and it retains less moisture than similar products. A Tridon flyer on tank closure can be viewed as Appendix E. In addition, Polymaster provided the following information on their product.

Thermal R-Values

Standard 105 lb.density 12" CMU wall – R-20.1 based on ASTM C-236

Standard 105 lb.density 8" CMU wall – R-11.01 based on ASTM C-236

Acoustical Values

45-50 dB loss – ASTM E413-73

Flame Classification

Class I

Water Resistance

Perms per inch: 6.631

Surface Absorrption: <1% by volume

Environmentally Green

Biodegradable

No CFC's

No ozone depleting off-gassing

No container disposal

Preparation of Tanks: Prior to the application of the Polymaster product, all of the tanks had to be cleaned of any remaining product inside. After the tanks were opened up, they were inspected by ASR personnel to determine their status. Any product discovered in the tanks was sampled. If there was no noticeable product, the tank was gauged for fumes using an Lumidor Impact Pro atmospheric monitor (Serial # ZEL0500471, Configured Feb. 2006). Next the tanks were vented for fumes and gauged again after twenty and thirty minutes. After the environment inside the tank was deemed safe, ASR personnel entered the tanks to clean any stains and remaining product. Please see Appendix F-Confined Space Entry Permits.

ASR utilized the services of Fenley & Nicol Environmental and Milro Environmental Associates when significant product was present. In June of 2006, Fenley & Nicol personnel advanced a Vacuum truck on site to pump out the first round of tanks. 2810 gallons and 1737 gallons of Fuel Oil Mixture were removed from the tank bottoms. On June 29, 2006 Milro removed 400 gallons of waste oil and sludge from a tanks. On July 12, 2006, Milro returned to the site and drew 500 gallons Tank # 17 and one other tank. All tank bottoms were put into 55 gallon DOT ring top drums to be properly disposed of.

The next step in the preparation of the tanks, was to manually clean out of the tanks utilizing Confined Space Entry Certified personnel to do so. Certified personnel from Advanced Site Restoration and Fenley & Nicol entered the tanks via tripod and harness. After being lowered into the tanks, the personnel used squeegees and brushes to clean the upper area of the tank down to the bottom. Product was collected from the bottom of the tanks and removed. All product removed was stored in 55 gallon, DOT Ring Top Drums. Any residual contamination was collected with absorption pads. This procedure was used as a protocol for all of the tanks at the subject site. Please see Appendix A, Figure 6 –Photographs to view the tripod and harness as well as cleaned tanks.

Disposal Manifests may be viewed as Apppendix B.

No visual signs of leaking or damaged tanks were observed by personnel inside the tanks.

Tank Fill: After proper cleaning and disposal of tank bottoms, each tank was filled with the Polymaster product. The following table displays the amount of Polymaster Foam applied to each tank. In addition, the estimated volume was calculated based on the multiple of 60 given by Tridon Industries. The estimated volume is at or near the sizes listed in Table 1.

Table 2

TANK #	FOAM APPLIED (GAL)	Estimated Volume (GAL)
1	200	12,000
2	200	12,000
3	25	1,500
4	25	1,500
5	25	1,500
6	116.5	7,000
7	116.5	7,000
8	200	12,000
9	166	10,000
10	75	4,500
11	75	4,500
12	66.5	4,000
13	66.5	4,000
14	200	12,000
15	133	8,000
16	200	12,000
17	100	6,000

8.0 Site Investigation & Sampling Results

In order to determine the extent of which historical use has impacted the environmental quality of the site, ASR retained Longshore Environmental Inc. to advance a geo-probe throughout the subject site. Soil samples were taken around groundwater interface and stored in 4 oz and 8 oz jars. All samples were submitted to York Analytical Laboratories Inc. for analysis. The analytical protocol was to test samples for the presence of contaminants using EPA Methods 8260 and 8270 BN. Given the historic use of the subject site, the suspected contamination was that of oil and plasticizers. These types of contaminants fall under those the 8270 BN sampling method, The analytical results would later confirm the detection of the types of contaminants that were believed to be on site.

As seen in Table 2, Sampling Results Summary, Phthalates (plasticizers) were detected throughout the site as suspected. In fact, Phthalates make up the overwhelming majority of contaminants detected on site. Specifically, Bis (2-ethylhexyl) phthalate and Di-n-octylphthalate were detected at concentrations below and above their applicable NYSDEC TAGM 4046, Allowable Soil Concentrations throughout the site. Napthalene was also detected throughout the site iin excess of the "NYSDEC TAGM 4046, Allowable Soil Concentrations".
Analysis of samples taken at groundwater interface beside the oil tanks indicated the presence of Anthracene, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (k) fluoranthene, Chyresene, Phenanthrene and Isophorone. These compounds are common constituents of oil. Very few Volatile Organic Compounds were detected on site as seen in Table 3.

The laboratory analytical results from the subject site were able to give the consultants at Advanced Site Restoration a good idea of the extent of the contamination. Given the results, various "zones" if you will, can be observed. The determination of these zones is important when devising a plan for further on and off site delineation (Please see Recommendations, in Section 10.) Generally, the Phthalates on site appear in high concentrations around groundwater interface on the northwest section of the building. The highest concentrations of Phthalates were detected in SB-6. It appears that these Phthalates are below a shallow area of soil where some elevated levels of VOC's were detected. The highest concentrations of SVOC's were detected in SB-39 next to Tank #15 and Tank #17. The highest concentrations of VOC's were detected in SB-14, next to Tank #2 and Tank #3.

Table 3 Sampling Results Summary

Soil Boring	Total VOC	Total SVOC	Total Phthalates
1 (1'-5')	ND	ND	ND
1 (5'-10')	ND	ND	ND
2 (1'-5')	ND	ND	ND
2 (10'12')	1700	ND	ND
3 (1'-5')	ND	ND	ND
3 (5'-10')	ND	190	190
4 (1'-5')	25	52,700	ND
4 (13'-15')	ND	340,000	340,000
5 (1'-5')	17	38,500	ND
5 (10'12')	657	510,000	510,000
6 (1'-5')	228	20,340	ND
6 (14'-16')	ND	12,000,000	12,000,000
7 (1'-5')	17	35,510	
7 (11'-13')	ND	6,800	6,800
8	ND	280	280
9	ND	170	170
10	ND	ND	ND
11	ND	260	260
12	ND	ND	ND
13	ND	370	370
14	40,500	32,900	0
15	ND	ND	ND
16	ND	300	300
17	ND	4,580	ND
18	ND	ND	ND
19	ND	ND	ND
20	ND	ND	ND
21	ND	ND	ND
23	ND	2,200	380
24	ND	30,000	30,000
32	ND	1,500	,1500
34	217	651,000	651,000
36	ND	1,200	1,200
37	ND	108,300	108,300

38a	ND	3,500	3,500
38b	ND	1,000	1,000
39	2,470	238,200	ND
44	493	20,000,000	20,000,000
46	ND	670	340
48	ND	4800	4800
49	ND	1,250	550
50	ND	4,920	4,700
51	ND	45,000	45,000
52	ND	11,490	3,860
56	ND	ND	ND
57	ND	58,800	58,800
58	ND	320	320
59	ND	ND	ND

In addition to sampling the geo probe soil borings, ASR also took samples from inside some of the UST's. The purpose of this sampling was to determine the chemical constituents of product in the tanks. Analysis of a water sample from inside Tank #3 indicated the detection of Benzene and Napthalene at 22ppb and 76 ppb respectively. Analysis of a water sample from inside Tank #4 indicated no detection of any contaminants according to EPA Method's 8260 and 8270 BN. In Tank #5, 65,000 ppb of Toluene was detected. Tank # 12 was sampled for a fingerprint ID. The laboratory results state that "no oil pattern was present"

On June 26, 2006 ASR personnel drew a sample of product from inside of Tank #17. The sample was submitted to York Analytical Laboratories Inc. to identify the constituents of the product. The results of this analysis matched what was found throughout the site. Bis (2-ethylhexyl) phthalate and Di-n-octylphthalate were detected 2,800,000 ppb and 2,700,000 ppb respectively. In addition, 2-Methylnapthalene and Napthalene were detected at 820,000 ppb and 200,000 ppb respectively.

9.0 Waste Disposal

All waste was properly disposed of by the applicable regulations.

Tank Bottoms: The waste at the bottom of the UST's labeled "Fuel Oil Mixture" was taken off site by Fenley & Nicol Environmental Inc. to their facility at:

Fenley & Nicol Environmental
445 Brook Ave
Deer Park, N.Y. 11729

The waste at the bottom of the UST's labeled "Waste Oil and Sludges" was taken off site by Milro Associates to:

NY Oil Recovery
94 Hausman St,
Brooklyn, N.Y.11222

Trenches: The waste from the bottom of the trenches was cleaned out and stored in DOT Ring Top drums on site. A total of 66 drums were generated.

Soil Disposal: All soil was stored in DOT Ring Top drums on site. All drums were labeled with their contents for future disposal.

All available disposal manifests can be seen as Appendix B.

10.0 Summary & Conclusions

On behalf of, 49 Dupont Realty Corporation has prepared this Underground Storage Tank Closure Report to present the documentation of the UST Closure in Place.

Sampling & Analysis-Throughout June of 2006, ASR advanced roughly forty one (41) geo probe soil borings at the subject site. Soil samples were taken at groundwater interface, and submitted to a certified laboratory for analysis using EPA Methods 8260 and 8270 BN.

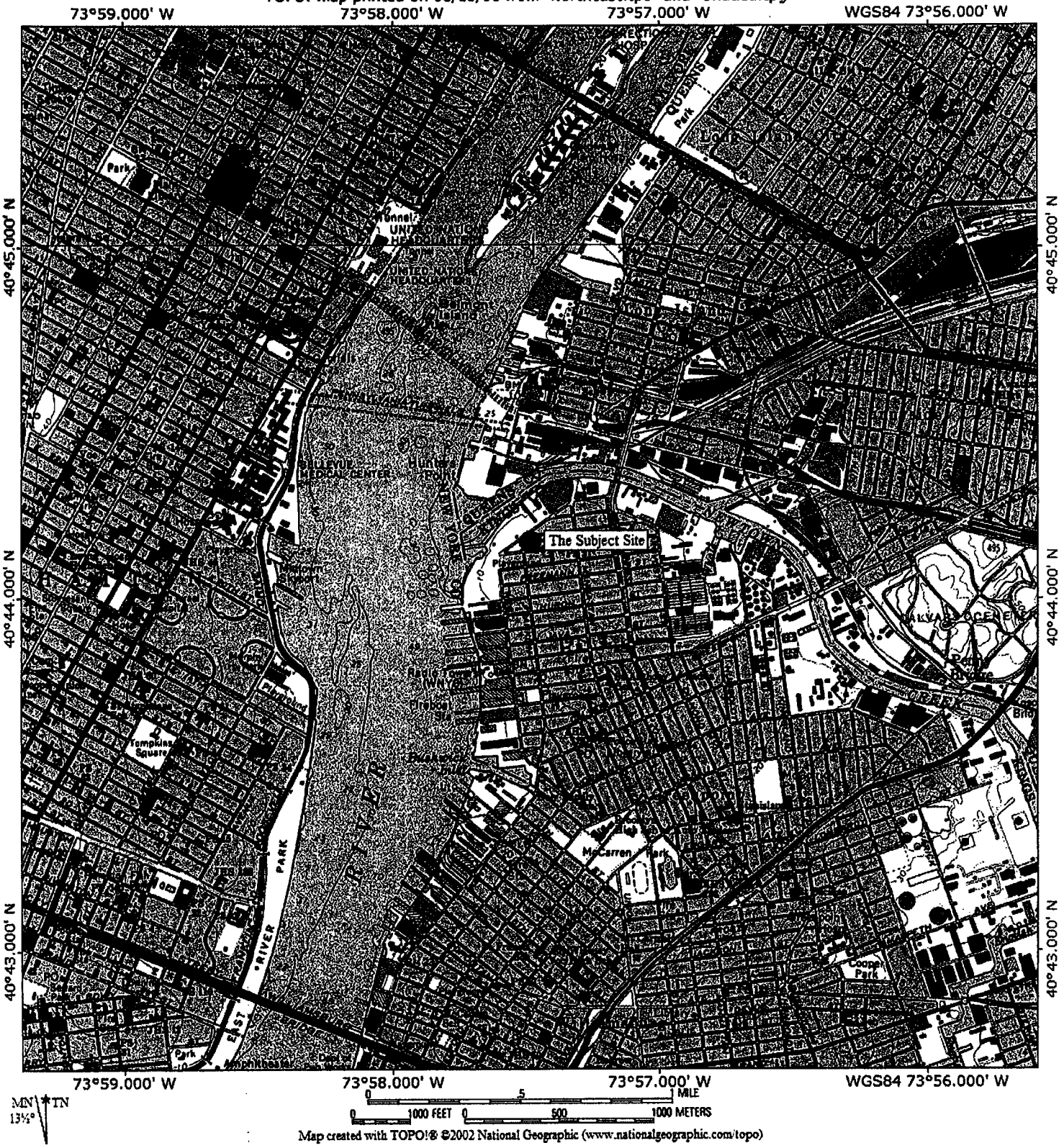
UST Documentation & Closure- Using all available resources, ASR compiled a list of the UST's on site, (See Table 1.) ASR prepared the tanks for filling using confined space-certified personnel. On June 20-21, 2006 and July 3 and July 17, 2006, ASR retained Tridon Industries to fill all of the UST's on site using the Polymaster R 501 product, a foam that can be used to fill tanks and seal them.

10.1 Recommendations

Based on the results of the tank closure and the preliminary site investigation ASR recommends the following:

- Install groundwater monitoring wells on site and off site as needed based on the delineation of the plumes(s) on site. See Appendix A- Figure 3. Proposed Monitoring Well Location Map.
- Survey the site to develop a Groundwater Gradient Map.
- Start a sampling and monitoring program both on and off site.
- Evaluate program to determine any clean zones, hot zones, and movement of product. Based on the evaluation, further delineation may be required.
- Based on the delineation study a Remedial Action Plan (RAP) will be developed and submitted to the NYSDEC for approval.

TOPO! map printed on 06/13/06 from "Northeast.tpo" and "Untitled.tpg"



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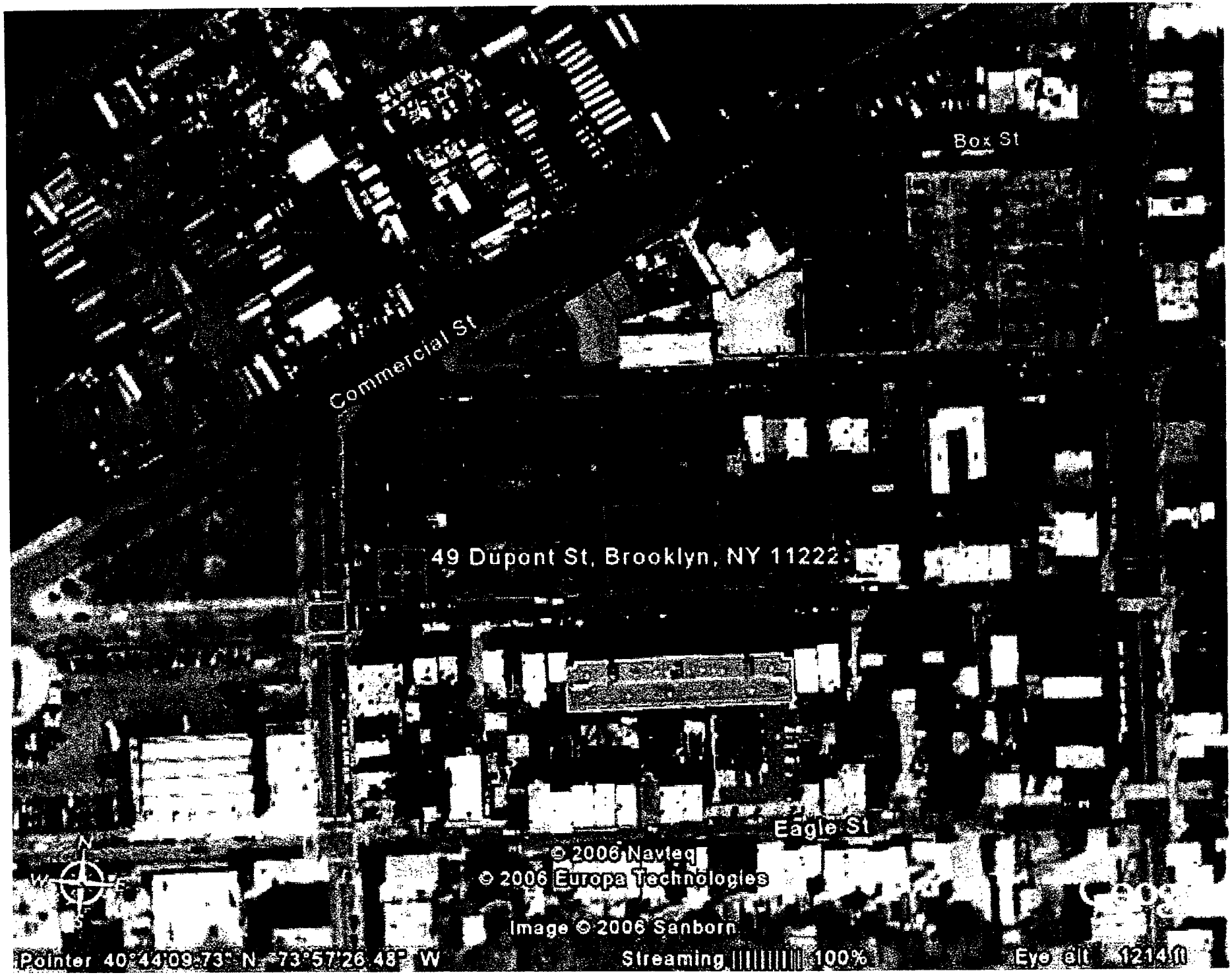
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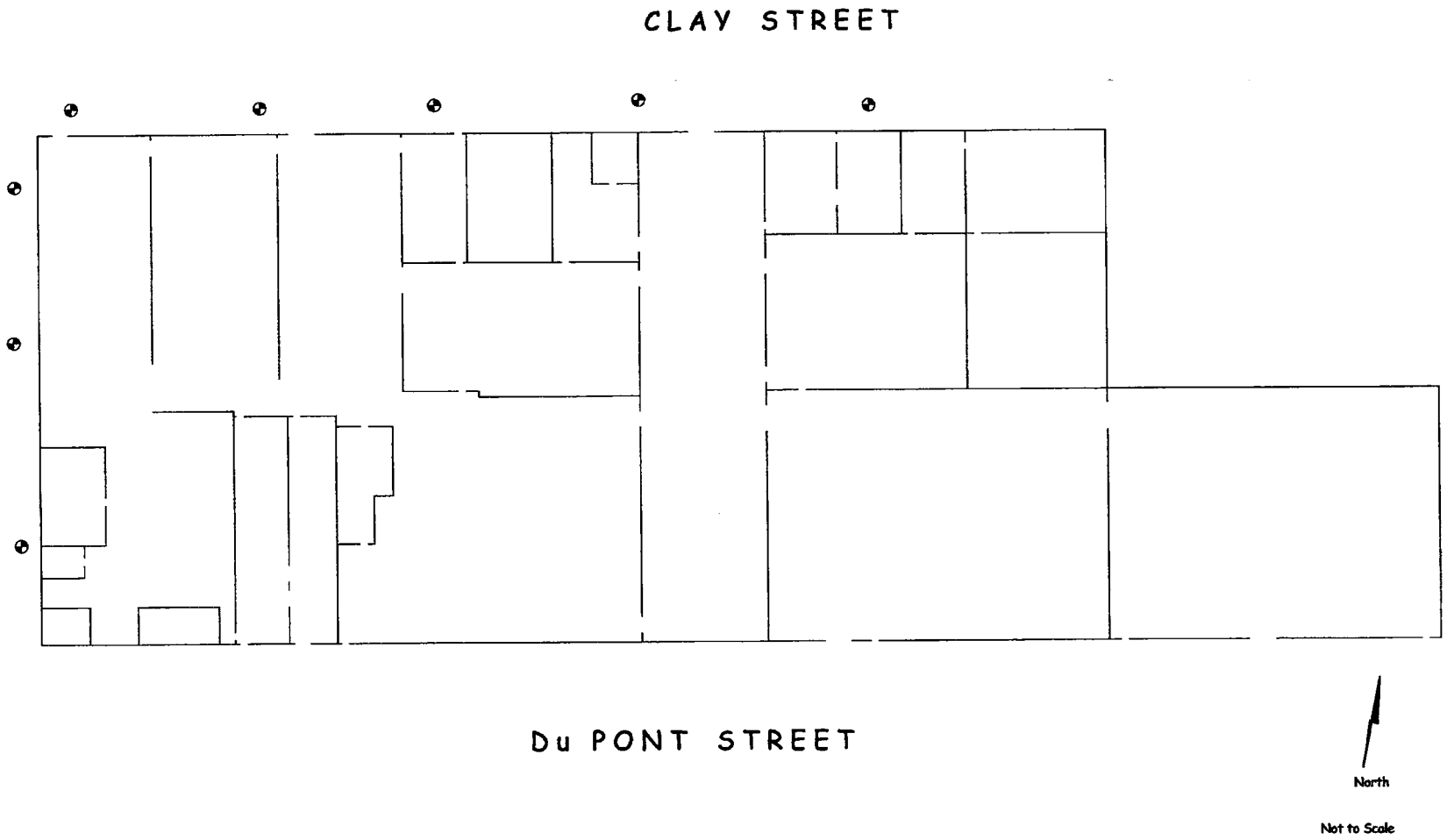
Commercial St
49 Dupont St, Brooklyn, NY 11222
Eagle St
© 2006 Navteq
© 2006 Europa Technologies
Image © 2006 Sanborn
Pointer 40°44'09.73" N 73°57'26.48" W
Streaming 100%
Eye alt 1214 ft



ASR
ADVANCED Site Restoration, LLC.
Environmental Services
62 William St., 3rd Floor, New York, NY 10005
Tel: 212-809-1110 Fax: 212-809-1779 info@askasr.com

Figure - 3

Site Map with Proposed Well Locations

SWM

Rev: 06/20/06

NuHart & Company, Inc.
49 - 55 Dupont Street
Brooklyn, New York

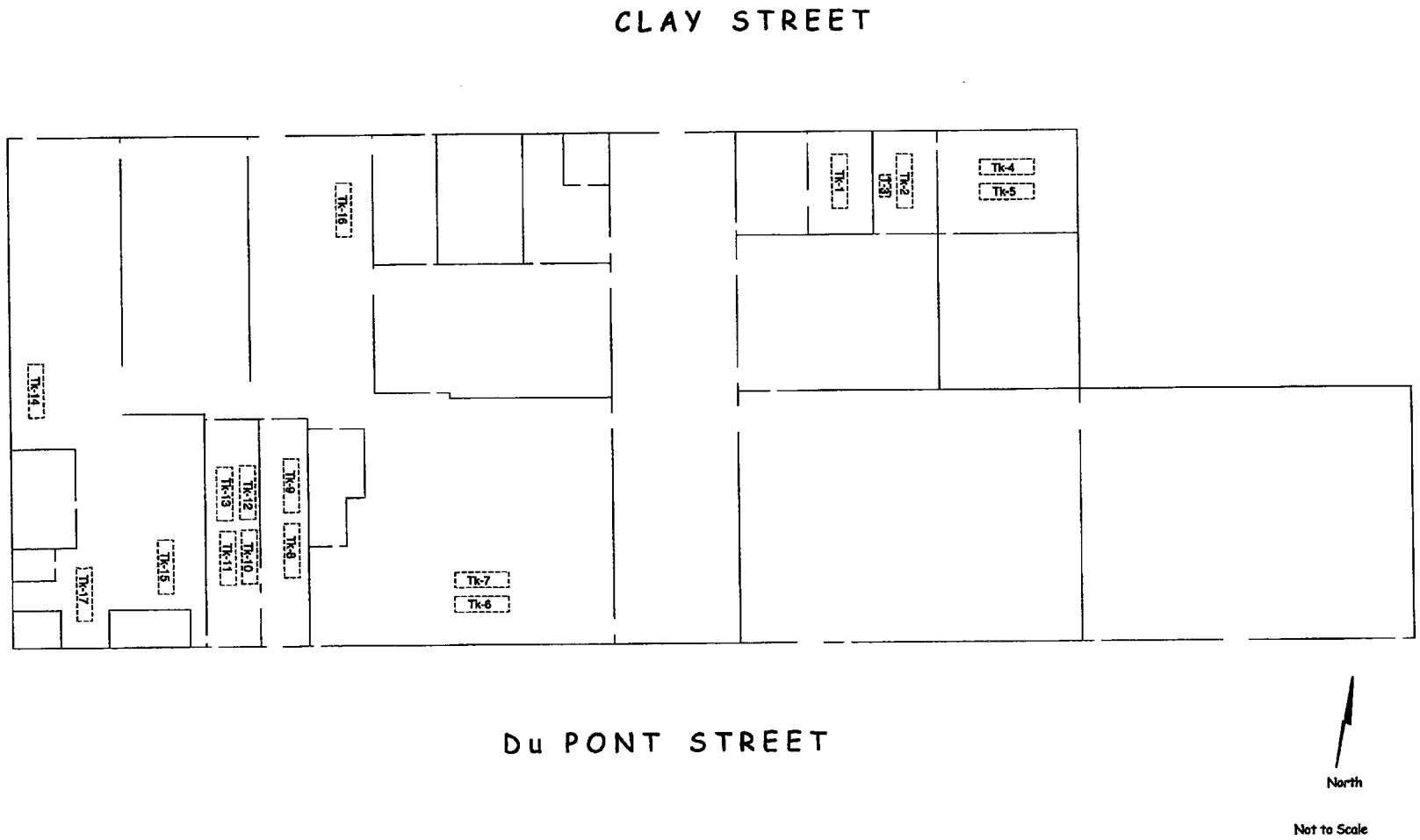


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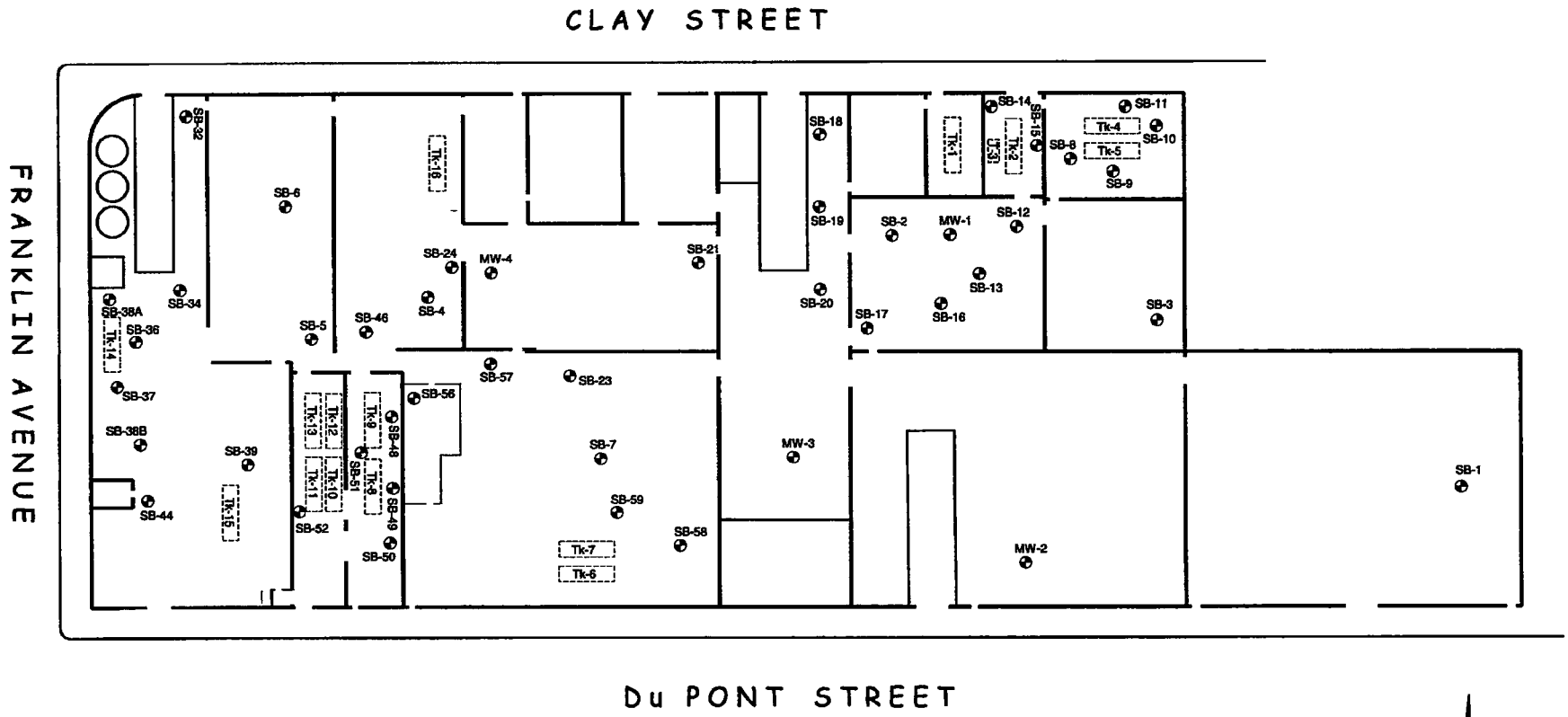
Figure - 4
UST Location Map

SWM

Rev: 06/20/06

NuHart & Company, Inc.
49 - 55 Dupont Street
Brooklyn, New York



ADVANCED Site Restoration, LLC.
Environmental Services

62 William St., 3rd Floor, New York, NY 10005
Tel: 212-809-1110 Fax: 212-809-1779 info@askasr.com

Figure - 5
Boring Location Map

SWM

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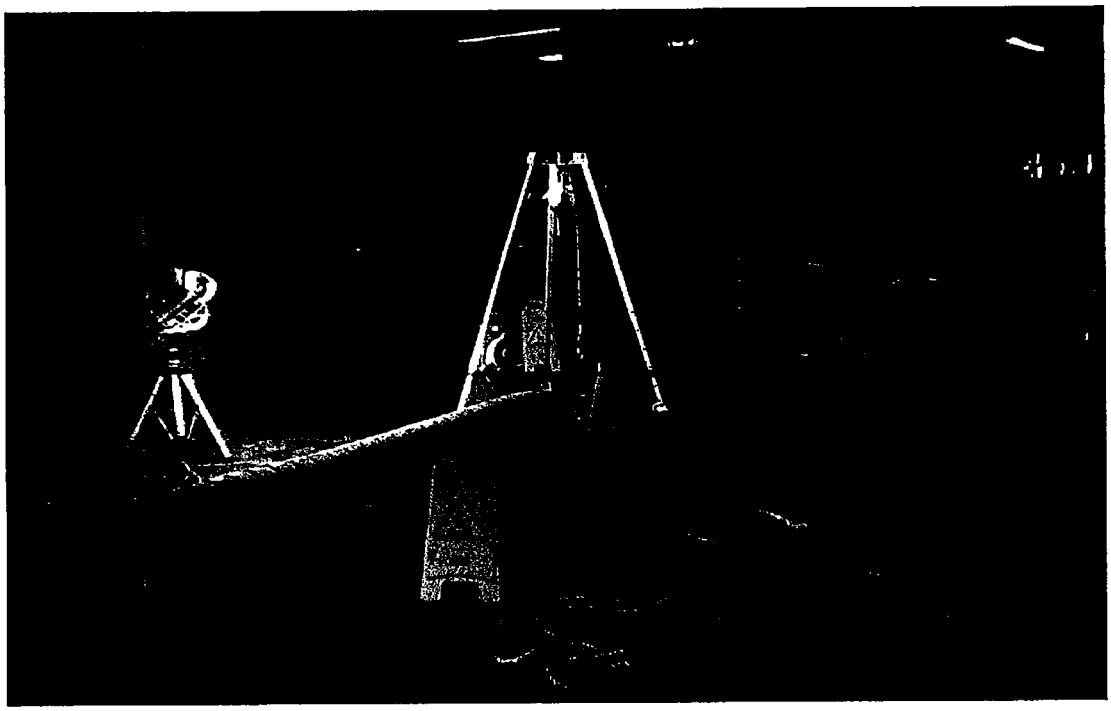
05/11/06

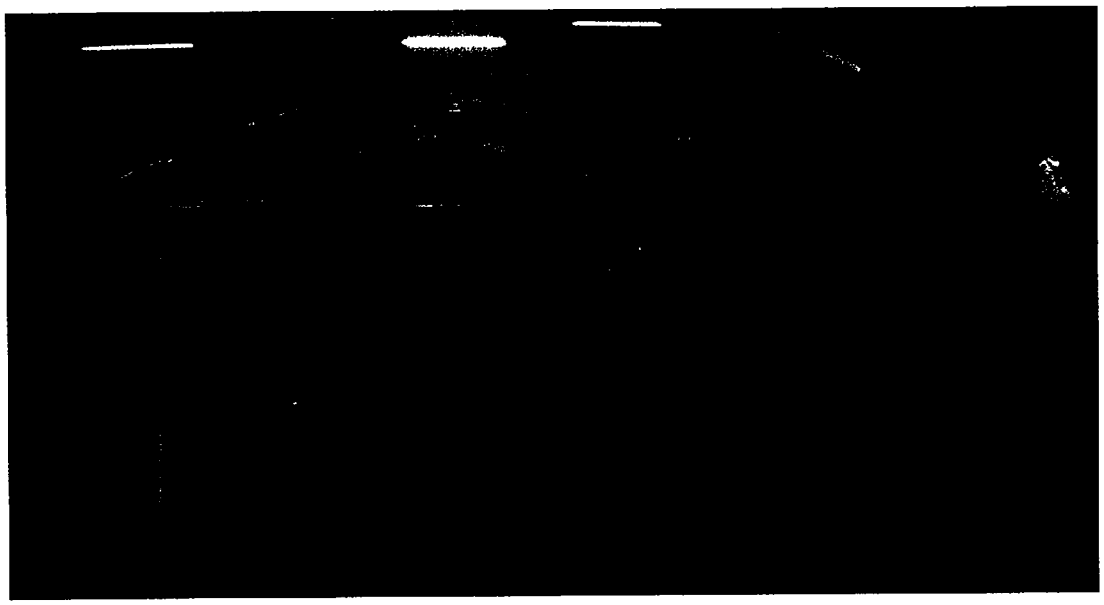
NuHart & Company, Inc.
49 - 55 Dupont Street
Brooklyn, New York



Tank #8 with confined space entry set up

ASR personnel being lowered into pit with harness

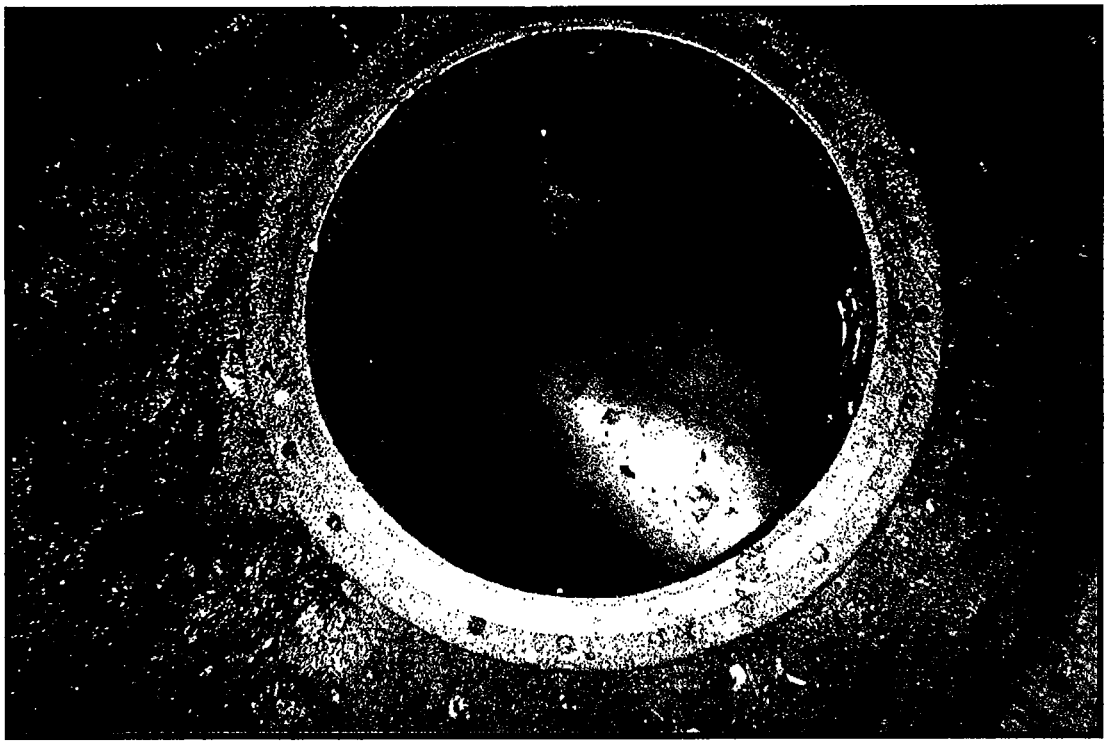
The condition of the trenches prior to cleaning



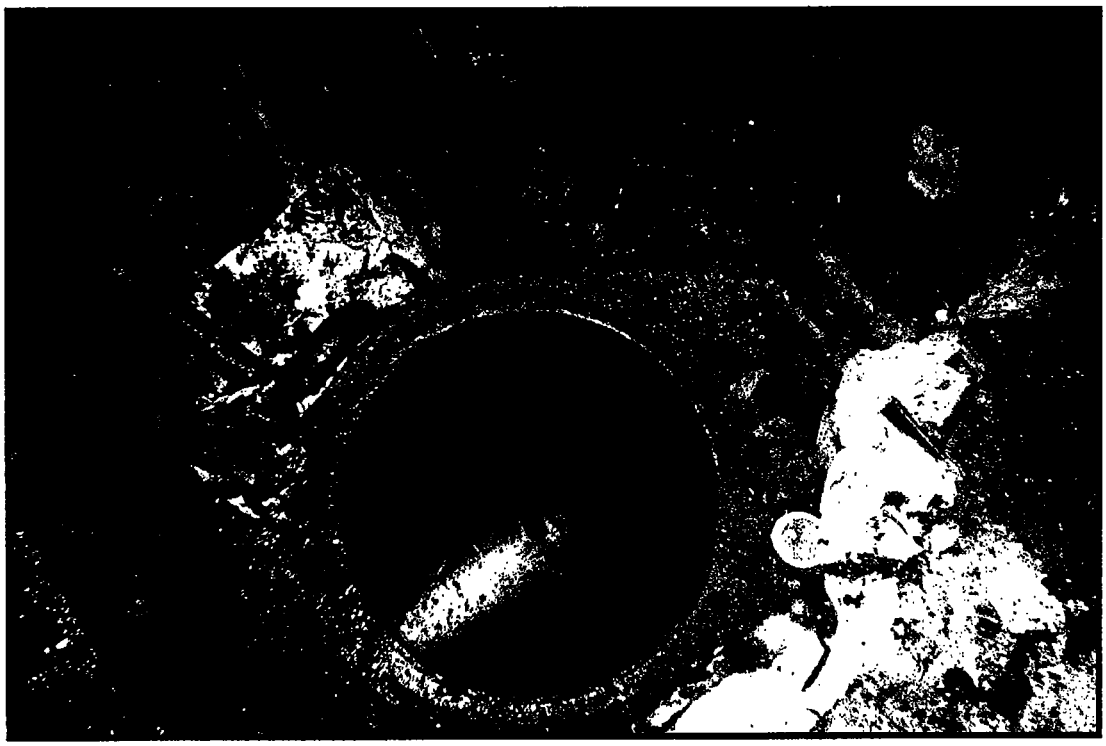
Typical trench seen throughout the site

Storage of 55 gallon drums on site

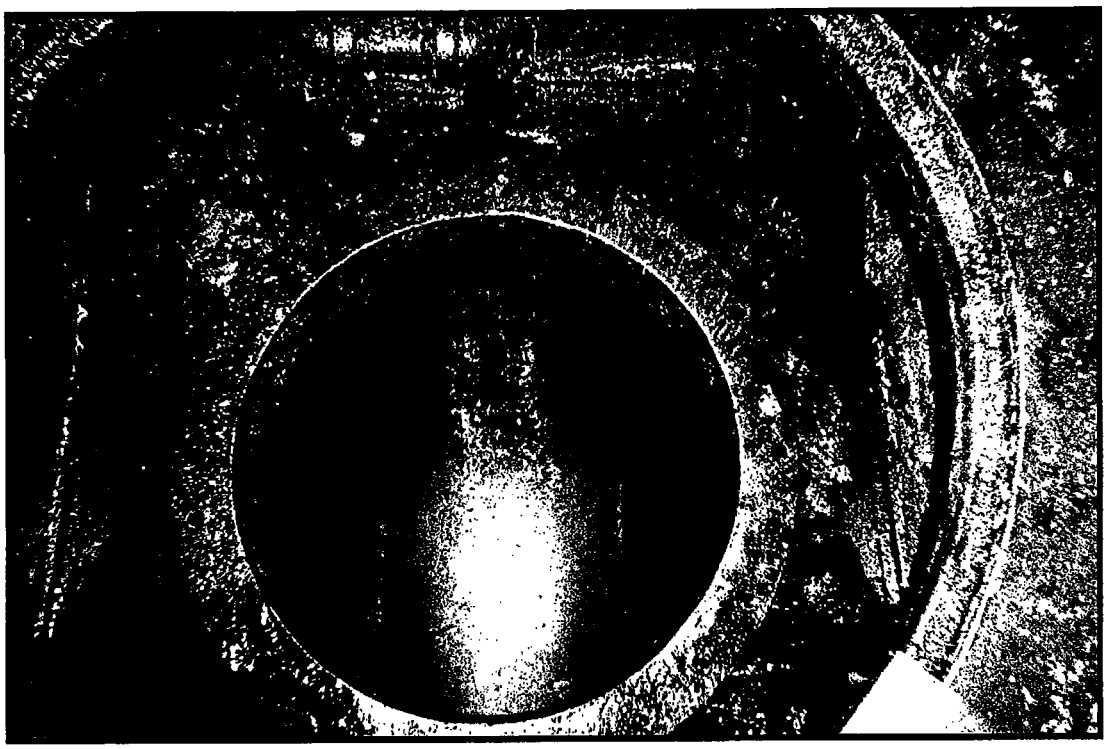
Drums filled with oil from tanks



Tank after cleaning

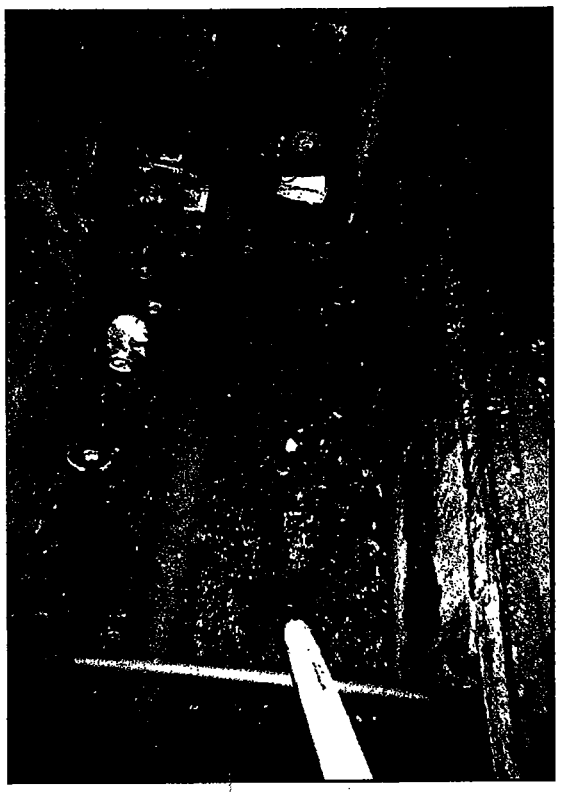


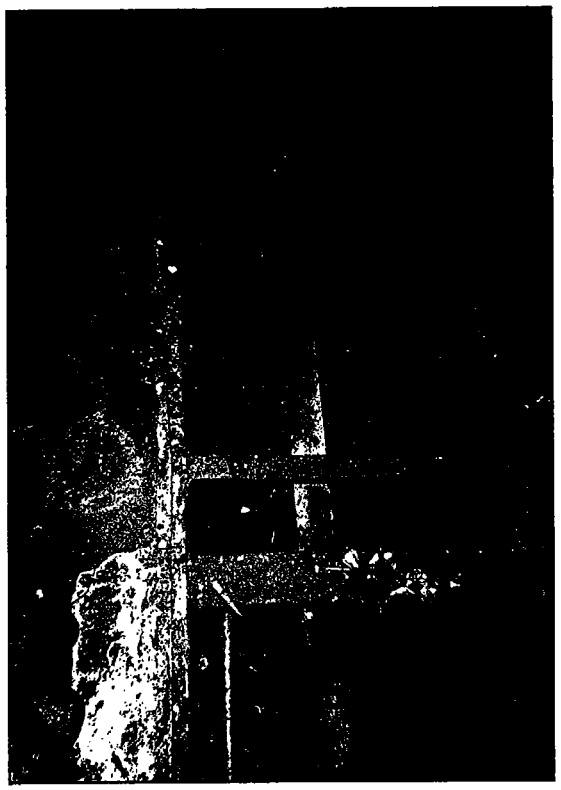
Tank after cleaning

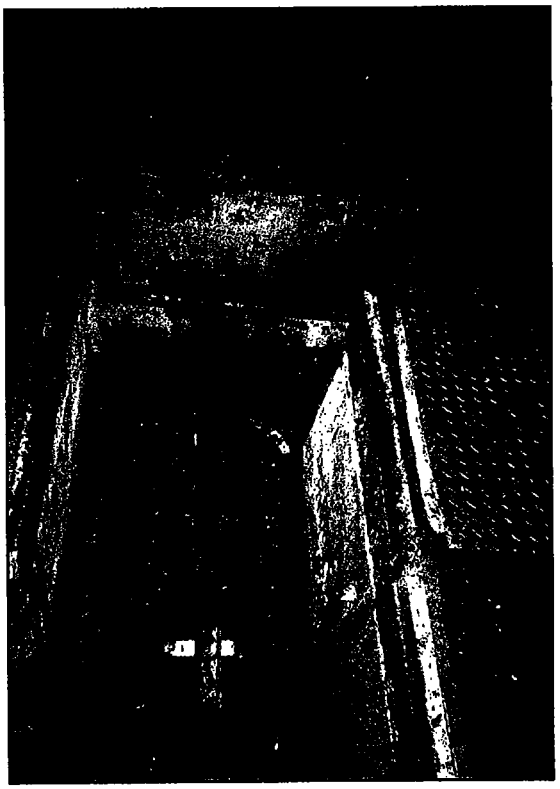


Tank after cleaning

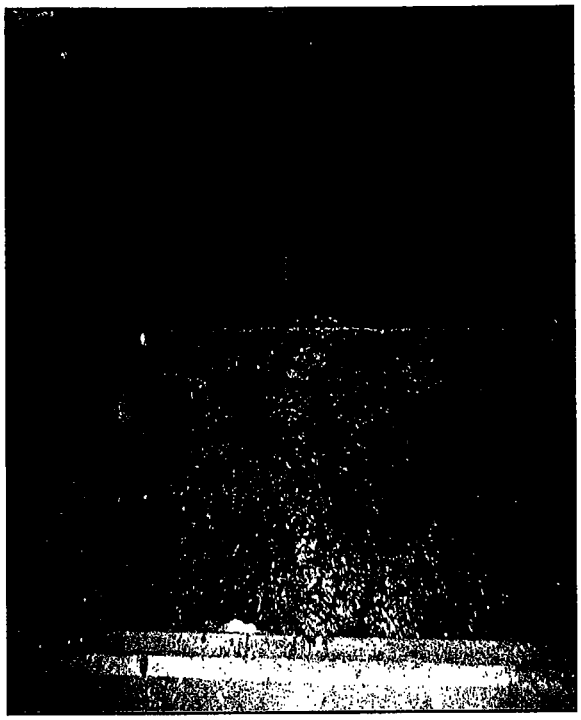
Tank after cleaning

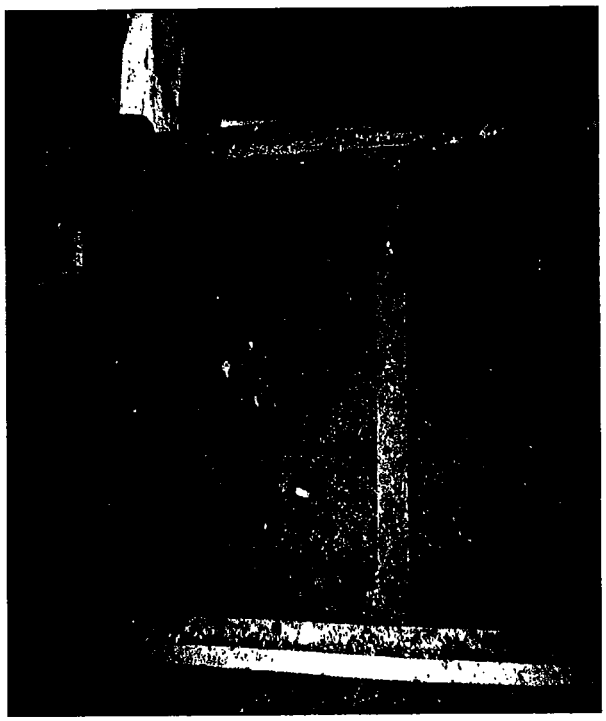


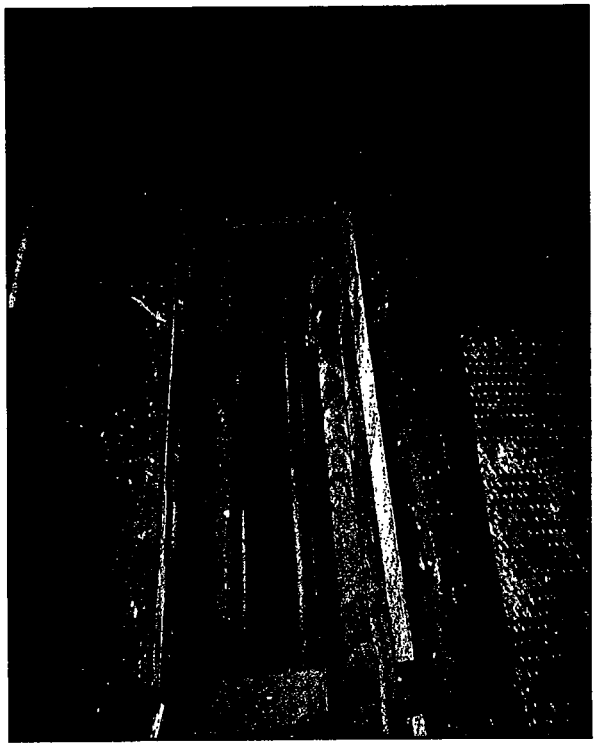




Trenches prior to cleaning

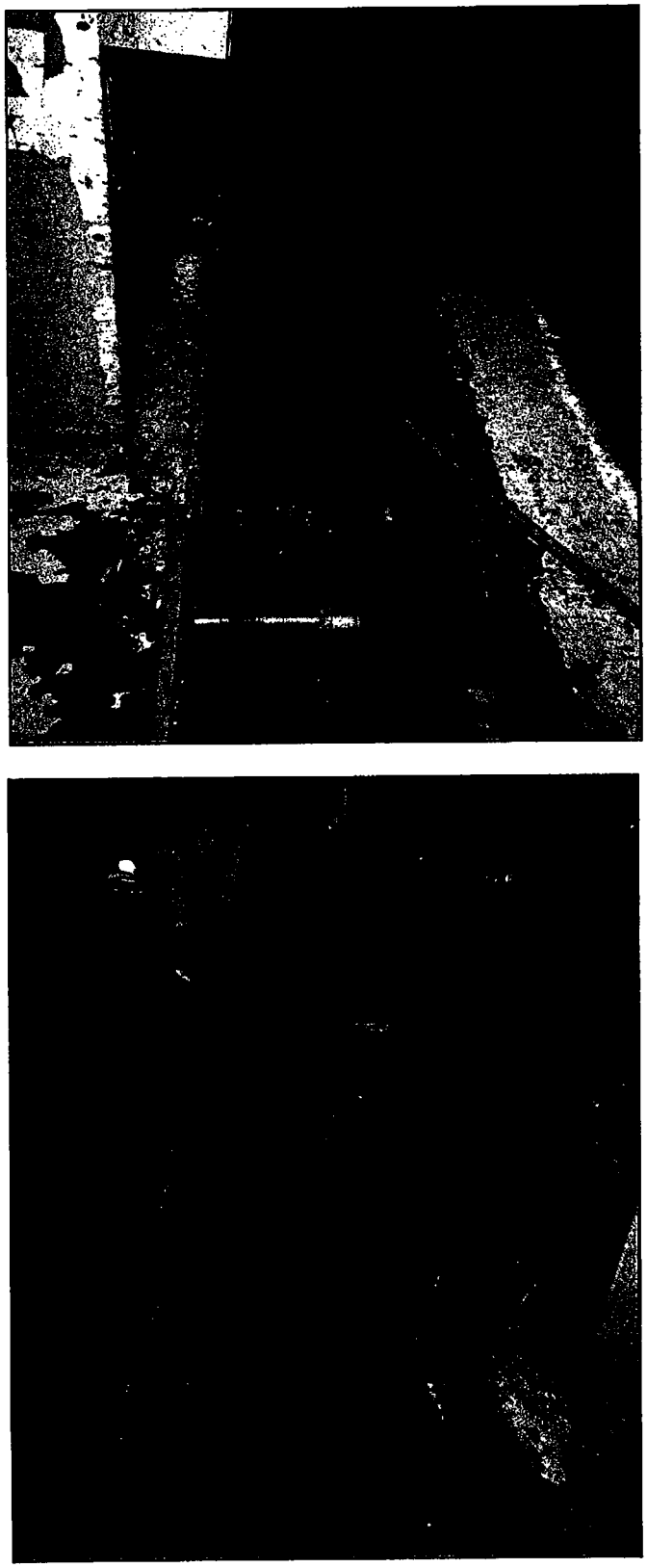




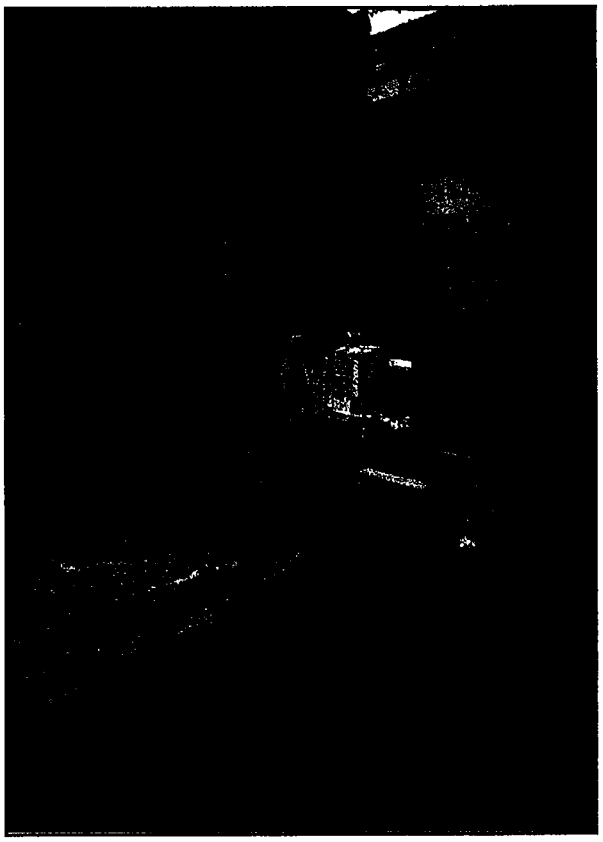


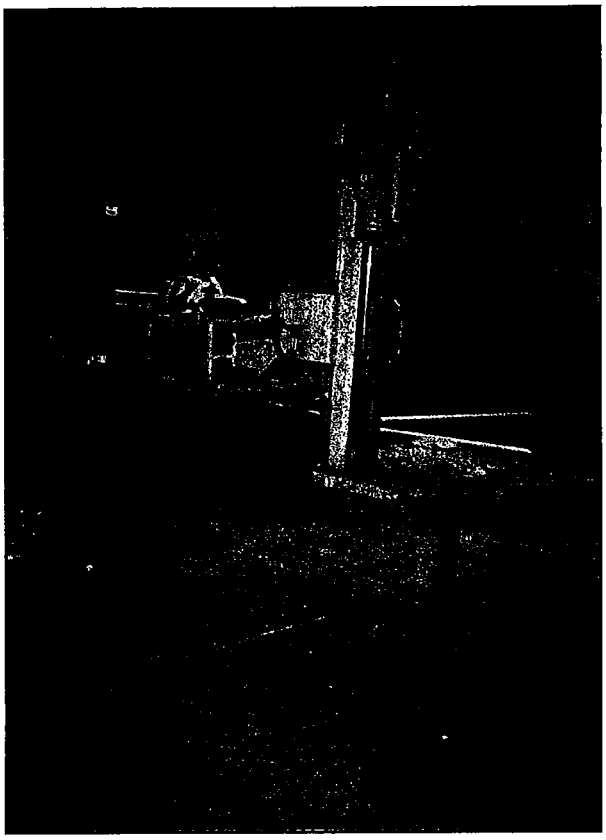
Trenches prior to cleaning

Trenches being scraped, lanced, and washed

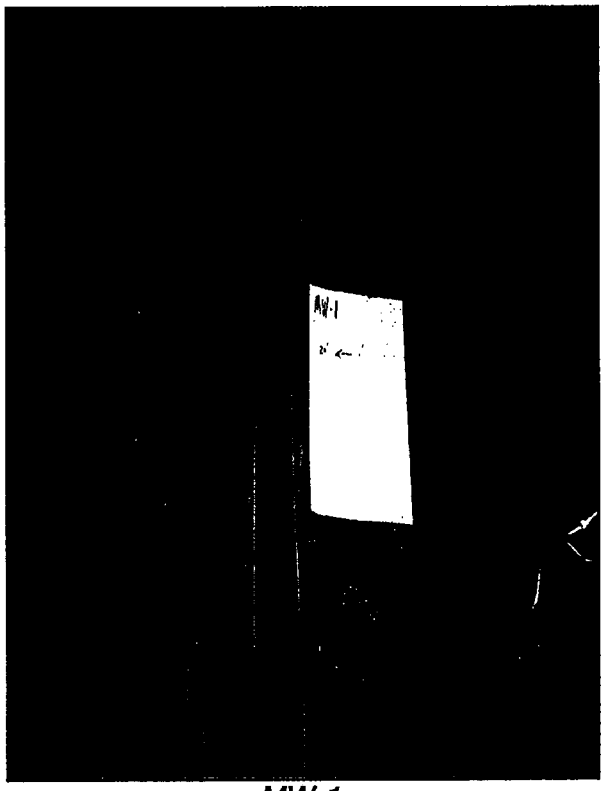


Trenches free of oil products and debris

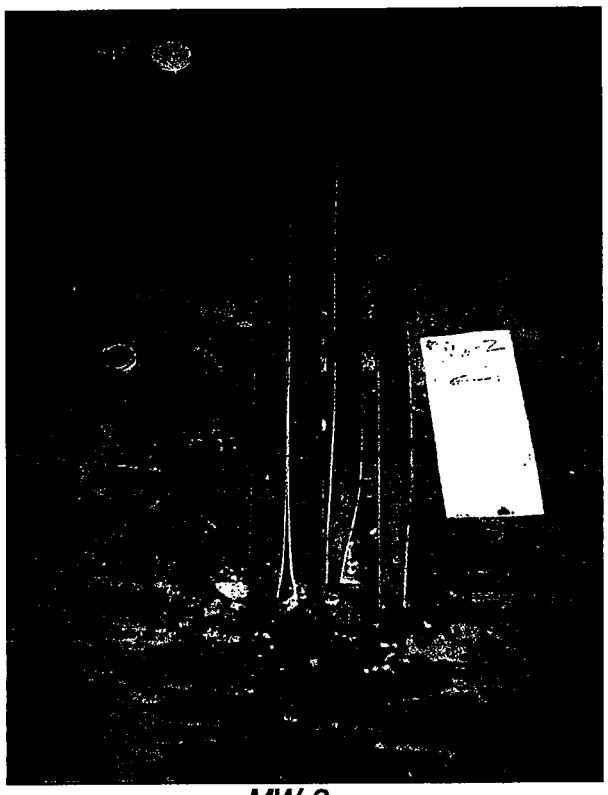




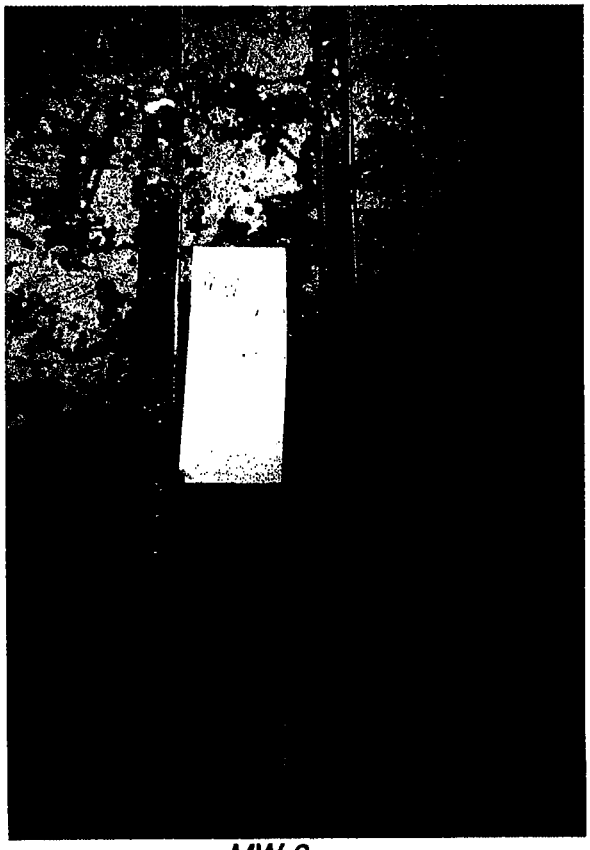
Fenley & Nicol on site with Geo-probe



MW-1

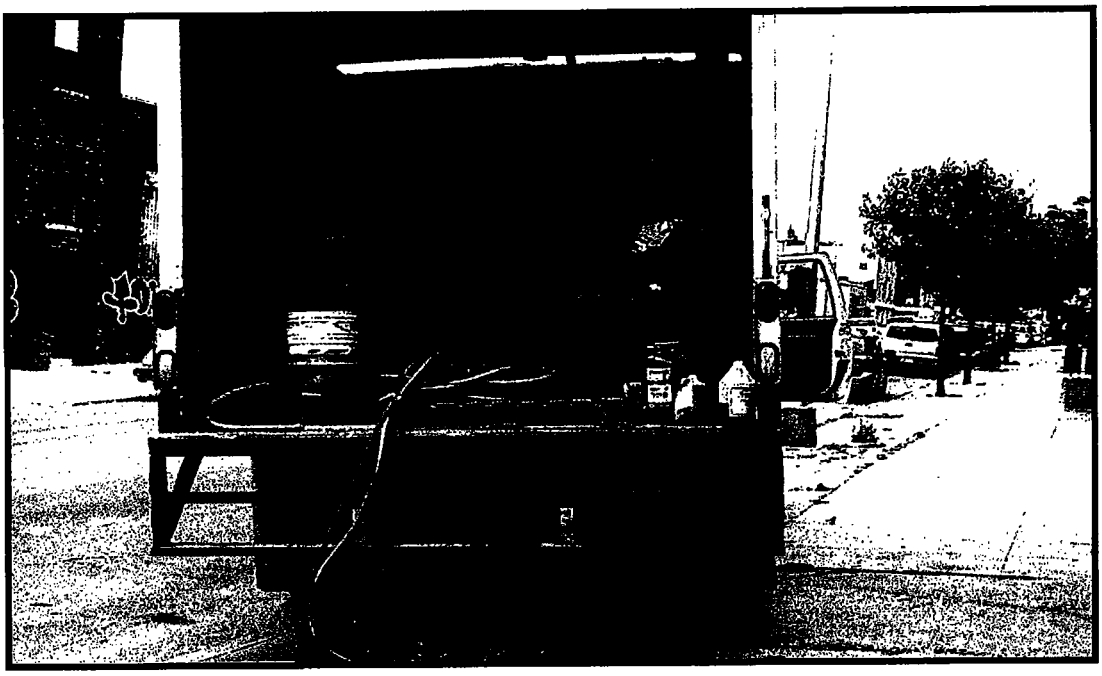


MW-2



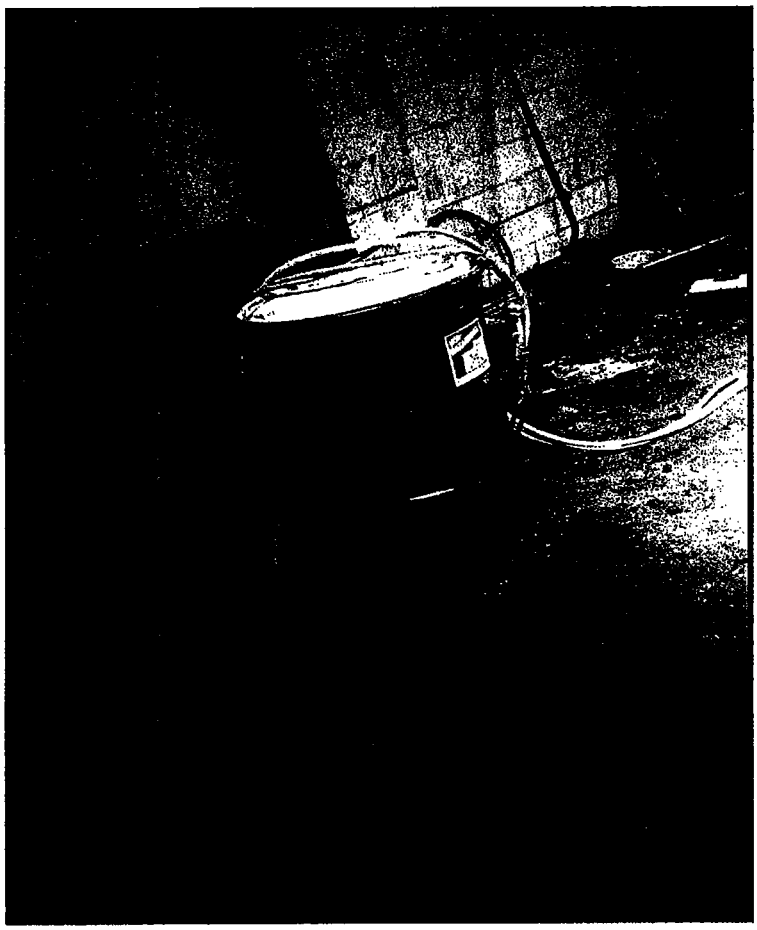
MW-3

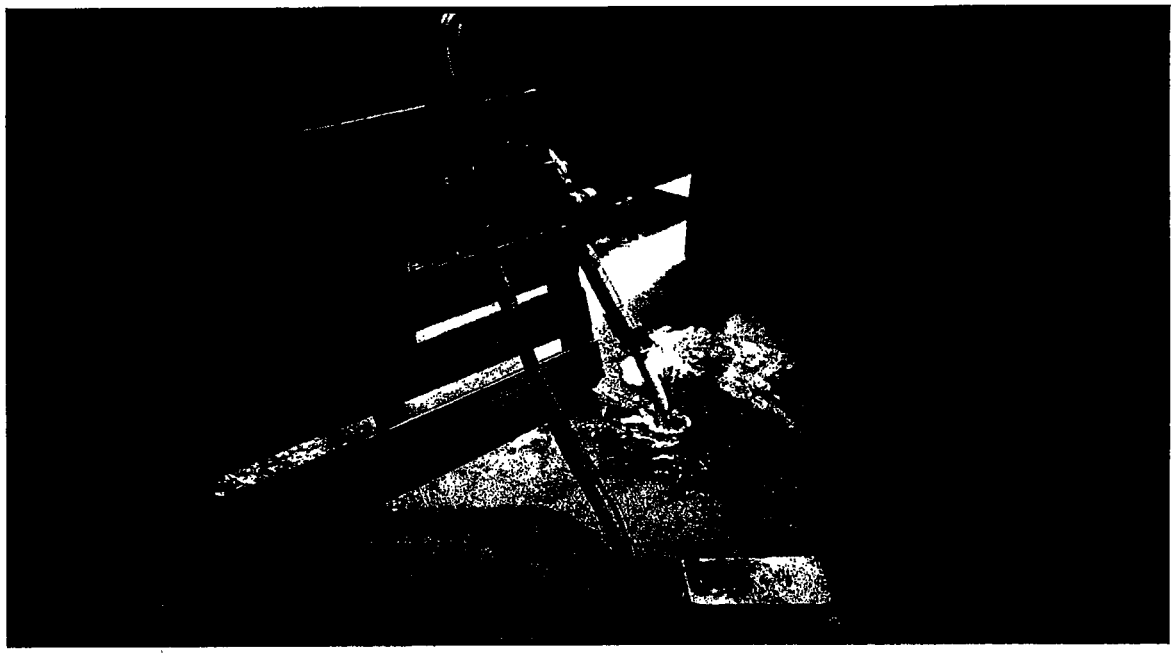
MW-4



Tridon Industries Truck used to mix foam products

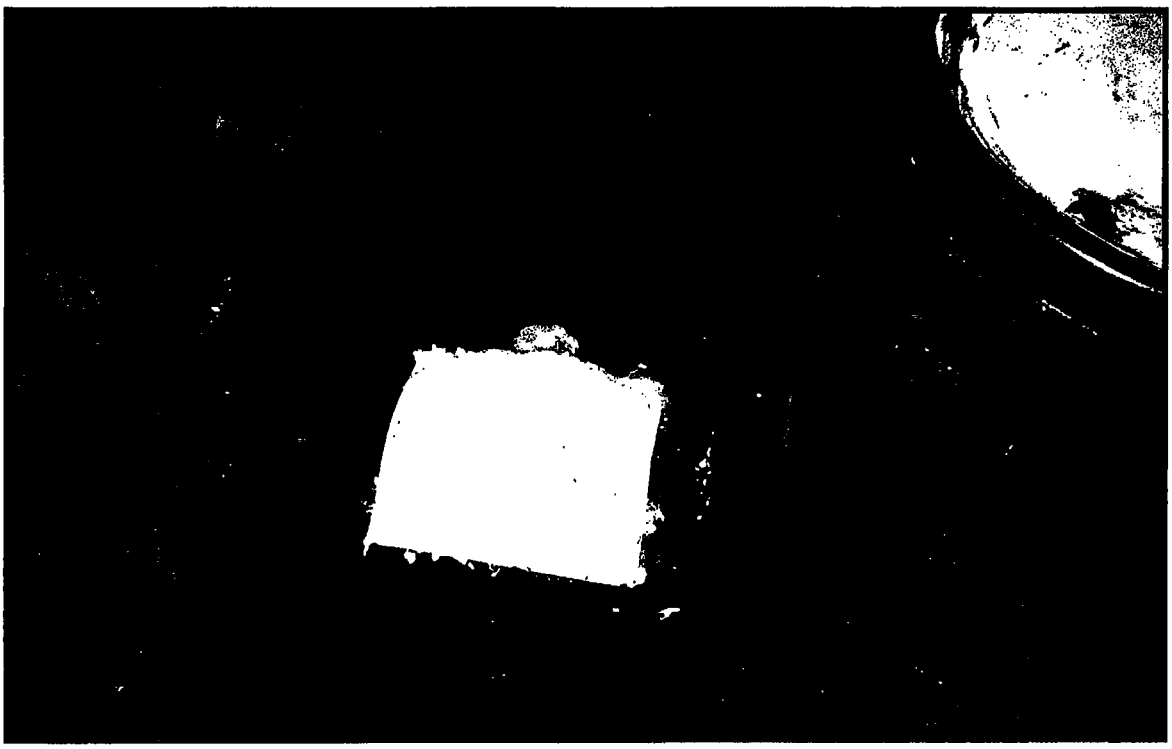
Tank being filled with the foam product



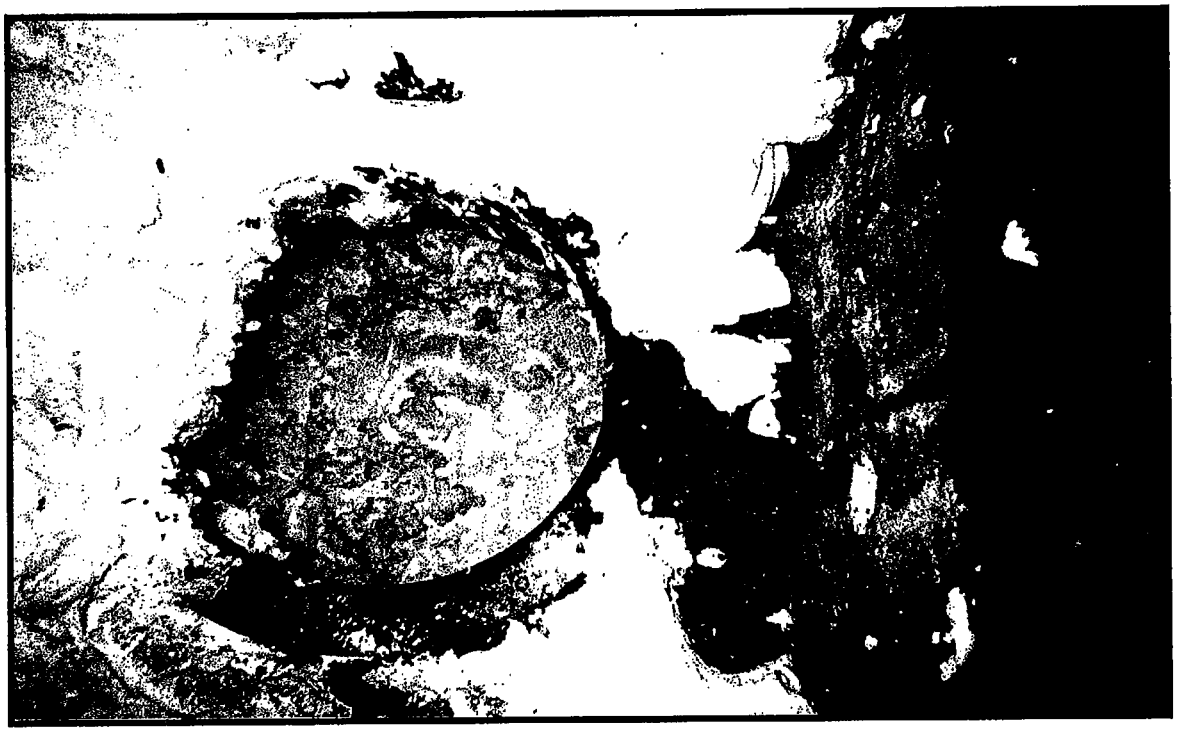


Tridon Industries Foam Application

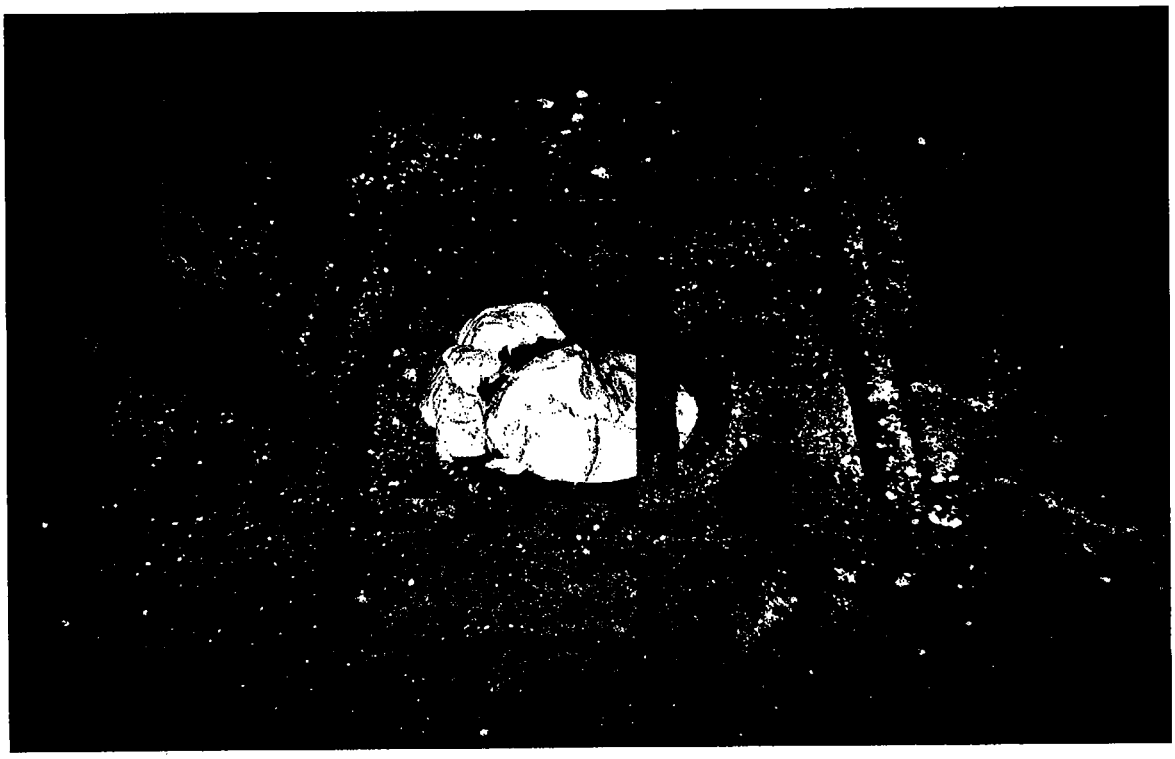
Tank filled with the foam product



Tank filled with the foam product



Tank filled with the foam product



Tank filled with the foam product

Appendix B

Disposal Manifests

FENLEY & NICOL ENVIRONMENTAL INC.
NON-HAZARDOUS / NON-REGULATED WASTE MANIFEST

PLEASE TYPE OR PRINT CLEARLY

JOB # 0609864

DATE 6/21/06

MANIFEST # No. 16970

1. **GENERATOR OF WASTE**

NAME A.S.R.

ADDRESS 45 DUPONT ST

PHONE NUMBER

SITE LOCATION BRCYN N.Y.

2. **IDENTIFICATION OF WASTE**

PROPER U.S. D.O.T. SHIPPING NAME	STATE CODE	CONTAINER TYPE	QTY. GALLONS
FUEL OIL MIXTURE 3 NA1993 PG-III	NO18	TT	2810
Spill # (if applicable)	ERG # 128		

3. **GENERATOR'S CLASSIFICATION**

This is to certify that the herein named materials are properly described, classified and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, Environmental Protection Administration and Local State regulations. The wastes are described herein were consigned to the transporter named. The TSD Facility can and will accept the shipment of waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S CONTACT SUPERVISOR and/or (Authorized Agent) [illegible] please print or type

SUPERVISOR'S SIGNATURE [illegible] TITLE

4. **TRANSPORTER NAME AND ADDRESS** (#1) (#2)

(#1)	(#2)
NAME FENLEY & NICOL ENVIRONMENTAL INC.	NAME
ADDRESS 445 BROOK AVENUE, DEER PARK, NY 11729	ADDRESS
PHONE NUMBER 24 Hour Emergency# (516) 586-4900	PHONE NUMBER
DRIVER'S NAME MIKE HACK SIGNATURE [illegible]	DRIVER'S NAME SIGNATURE
INDUSTRIAL WASTE HAULER PERMIT # 1A-036 VEHICLE PLATE # 95760-JC	INDUSTRIAL WASTE HAULER PERMIT # VEHICLE PLATE #

5. **DISPOSAL SITE** (Must be filled in by disposal site)

NAME OF FACILITY

ADDRESS OF FACILITY

PHONE NUMBER

This load was received as stated by generator YES ☐ NO ☐

DISPOSAL SITE IDENTIFICATION NUMBER (if applicable)

DISPOSAL SITE INSPECTOR NAME

SIGNATURE DATE

GENERATOR White TRANSPORTER Yellow DISPOSAL Pink ORANGE

FENLEY & NICOL ENVIRONMENTAL INC.
NON-HAZARDOUS / NON-REGULATED WASTE MANIFEST

PLEASE TYPE OR PRINT CLEARLY

JOB # _____

DATE 6/28/06

MANIFEST # No. 17093

1. **GENERATOR OF WASTE**

NAME ASR.

ADDRESS 95 DUPONT ST

PHONE NUMBER _____

SITE LOCATION BKLYN NY.

2. **IDENTIFICATION OF WASTE**

PROPER U.S. D.O.T. SHIPPING NAME	STATE CODE	CONTAINER TYPE	QTY. GALLONS
FUEL OIL MIXTURE 3 NA1993 PG III	NOIR	TT	1737
Spill # (if applicable)	ERG # 128		

3. **GENERATOR'S CLASSIFICATION**

This is to certify that the herein named materials are properly described, classified and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, Environmental Protection Administration and Local State regulations. The wastes are described herein were consigned to the transporter named. The TSD Facility can and will accept the shipment of waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S CONTACT SUPERVISOR and/or (Authorized Agent) Anthony Adesso

please print or type

SUPERVISOR'S SIGNATURE _____ TITLE _____

4. **TRANSPORTER NAME AND ADDRESS** (#1) (#2)

(#1)		(#2)	
NAME	FENLEY & NICOL ENVIRONMENTAL INC.	NAME	
ADDRESS	445 BROOK AVENUE, DEER PARK, NY 11729	ADDRESS	
PHONE NUMBER	24 Hour Emergency# (516) 586-4900	PHONE NUMBER	
DRIVER'S NAME	MIKE HALL	DRIVER'S NAME	
SIGNATURE		SIGNATURE	
INDUSTRIAL WASTE HAULER PERMIT #	1A-036	INDUSTRIAL WASTE HAULER PERMIT #	
VEHICLE PLATE #	95160-JC	VEHICLE PLATE #	

5. **DISPOSAL SITE** (Must be filled in by disposal site)

NAME OF FACILITY _____

ADDRESS OF FACILITY _____

PHONE NUMBER _____

This load was received as stated by generator YES ☐ NO ☐

DISPOSAL SITE IDENTIFICATION NUMBER (if applicable) _____

DISPOSAL SITE INSPECTOR NAME _____

SIGNATURE _____ DATE _____

GENERATOR-White **TRANSPORTER-Yellow** **DISPOSAL-Pink** **ORANGE-File**

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: Exempt
Manifest Document No.:
2. Page 1 of 1

3. Generator's Name and Mailing Address: Herta + Company, 4950 Dupont St, Brooklyn NY
4. Generator's Phone ( )

2 tanks (Bottoms) 1 1/2 plastic Containers

5. Transporter 1 Company Name: Milo Associates
6. US EPA ID Number: NYD 084 743263
A. Transporter's Phone: 516-379-1500

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address: WYD Oil Recovery, 94 Hausman St, Brooklyn NY
10. US EPA ID Number: Exempt
C. Facility's Phone:

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. waste oil + sludges	001	TT	0.400	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: X E. VAZQUEZ
Signature: X E. Vazquez
Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible]
Signature: [illegible]
Month Day Year: 6 29 96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: N.Y. Oil Recovery
Signature: [illegible]
Month Day Year: 6 29 96

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: Exempt
Manifest Document No.:
2. Page 1 of 1

3. Generator's Name and Mailing Address: Hatch + Co. Dupont St Brooklyn, NY
a) Tank #17
b) structural turbine
4. Generator's Phone ( )

5. Transporter 1 Company Name: Milro Associates
6. US EPA ID Number: NYD064743263
A. Transporter's Phone: 516-379-1500

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address: NY Oil Recovery 94 Hewson St Brooklyn NY
10. US EPA ID Number: Exempt
C. Facility's Phone:

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. waste oil	001	TT	00300	G
b. waste oil + water emulsions	001	TT	00200	G
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
E. VAZQUEZ	E. Vazquez	7	12	06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Todd Murray	Todd Murray	7	12	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
NY Oil Recovery	[illegible]	07	12	06

GENERATOR — TRANSPORTER — FACILITY

ORIGINAL - RETURN TO GENERATOR

Appendix C

Laboratory Analyticals

ADVANCED SITE RESTORATION, LLC
ENVIRONMENTAL SERVICES

Phase II Site Assessment

49-55 Dupont Street, Brooklyn, New York 11222

NYSDEC SPILL # 06-01852

Prepared on Behalf of:
49 Dupont Realty Corporation

Prepared By:
Advanced Site Restoration, LLC

March 2007

Christopher P. Tomasello, I.H.
Project Professional

Steven Muller, CEC
Project Manager

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1.0 SCOPE OF PROJECT

This Phase II Site Investigation Report documents the results of the subsurface soil and groundwater investigation at the subject site. This investigation was conducted by Advanced Site Restoration, LLC (ASR), on behalf of 49 Dupont Realty Corporation. All work is in accordance with New York State Department of Environmental Conservation (NYSDEC), Spill Prevention Operations Technology Series (SPOTS) Memo #14, Site Assessments at Bulk Storage Facilities (August 1994). The scope of this investigation includes the following:

- The review of the New York State regulatory agency records for the site and the immediate surrounding area.
- An investigation into the possible sources of off site contamination.
- The collection of soil samples from inside the building at the subject site and off site, directly adjacent to the building.
- The documentation of soil characteristics and conditions.
- The advancement of groundwater monitoring wells both inside the building at the subject site and off site, directly adjacent to the building.
- The collection of groundwater samples from inside the building at the subject site and off site, directly adjacent to the building. .
- A survey of the area in and around the subject site.
- The construction of a Groundwater Gradient Map.
- The construction of both groundwater and soil Contaminant Plume Maps.
- A summary of the analytical findings respective to the NYSDEC TAGM 4046, Allowable Soil Concentrations and Groundwater Quality Standards.
- Develop recommendations based on the findings of this investigation.

2.0 GENERAL SITE INFORMATION

Site Description: The subject site is legally identified as New York City Tax Block 2487, Tax Lots 1, 10, 12, 17, 18, 20, 21, 57, 72, and 78. The current owner since 1983 is the 49 Dupont Realty Corporation.

The subject site is a former manufacturing facility. The New York City Department of Finance Occupancy Code is "F-9, Factory Industrial." According to the Sanborn Map Report from Environmental Data Resources, Inc. (EDR), industrial activity at the subject site dates as far back as 1887.

Historic use of the site has included manufacturing, office, storage, shipping and receiving. More recently, the site had been used as a plastic manufacturing facility since approximately 1950. According to *FPM Group* who completed a Phase I Site Assessment, dated April 2005 for the subject site, reported that commercial uses prior to 1950 included a boiler shop for Logan Ironworks, two stable buildings, a gas and light fixture factory, a sheet metal works, a soap manufacturer, a water proofing manufacturer, and a scrap metal facility.

The North American Industry Classification System (NAICS) listing for the subject site is "Plastic Fitting and Plastic Manufacturing". The factory at the subject site was most recently used to manufacture vinyl sheeting. It had been used as such a facility for the greater part of the 20th Century. As of 2004, the factory ended its manufacturing operations.

According to the United States Geological Survey (USGS) Brooklyn, New York 7.5 Minute Series Topographical Map (1995), the Site is situated at an approximate elevation of 13 feet above mean sea level. The location of the Site is shown on the Site Location Map, Figure 1, Appendix A.

In September of 2004, a visual reconnaissance of the site was performed by *RTP Environmental Associates* (RTP). Materials potentially containing asbestos were reported throughout the site. Four (4) silos used to store raw materials were observed on the west side of the property. RTP also reported a drum storage area with drums containing petroleum products. Plasticizers were also found in several areas of the subject site in drums and in concrete lined piping trenches. The on–site contamination, including that of plasticizers has been fully delineated in preparation for environmental remediation.

The environmental work currently being performed by ASR began in May 2006. To address the underground storage tanks (USTs), ASR collected samples from inside each UST. The seventeen (17) USTs were cleaned, rinsed and filled with foam to close them in place in accordance with all NYSDEC regulations. In July of 2006, the tanks were properly registered with the submittal of an updated Petroleum Bulk Storage and Chemical Bulk Storage application to the NYSDEC. Upon completion of the UST decommissioning, ASR prepared and submitted to the NYSDEC a Tank Closure Report dated July, 2006. ASR continued the subsurface investigation activities with the collection of soil and groundwater samples and the installation of a monitoring well network to fully delineate the identified soil and groundwater contamination (see Section 6.0). During future development of a comprehensive remedial plan, ASR has installed and currently maintains an Interim Remedial Measure (IRM) which consists of recovering free phase product (plasticizer) by pumping from two (2) locations. In addition, daily hand bailing is currently being performed. (see Section 9.0)

Surrounding Land Use: The surrounding use of the site is a mix of commercial, residential, and manufacturing. There are a number of mixed use lots with both residential and manufacturing. To the north of the site is a warehouse and a hardware store beyond which is an automotive lot (Figure 2-Aerial Photograph, Appendix A). To the east down Clay Street and Dupont Street are several multi-family residential units. To the south across Dupont Street there are apartments and more residential units. To the west is a small city park.

Sensitive Receptor Survey: A limited sensitive receptor survey was performed to identify any potential sensitive receptors in the vicinity of the subject site. No potable water wells were identified on or in the immediate vicinity of the subject site. The nearest surface water body is New Town Creek, which outflows into the East River located approximately 600 feet northwest of the subject site. As mentioned in the Surrounding Land Use Section, there are residential units to the east and the south of the subject site. Major utilities including water, sanitary, electric and natural gas have also been identified under the streets of Franklyn, Clay, and Commercial.

3.0 REGIONAL GEOLOGY/HYDROGEOLOGY

The subject site is located in Brooklyn, New York. The elevation of the site, as presented on the United States Geologic Survey (USGS), Brooklyn Quadrangle Map (1995), is approximately 13 feet above sea level (Figure – 1, Appendix A). The subject site lies within an area classified as Urban Land. This soil type consists of urbanized areas where the majority of surface is covered with buildings, roads, driveways, parking lots, and other manmade structures.

Based on our measurements, the groundwater table is located between 10 ft and 12 ft below grade surface (bgs). This is consistent with a USGS Survey of Water Table Elevation map available to ASR. A northwesterly groundwater flow direction was determined by ASR from a survey of monitoring wells installed on and off site. This groundwater flow direction is supported location and proximity to New Town Creek and the East River, (Figure 6 - Groundwater Gradient Map, Appendix A).

4.0 PREVIOUS INVESTIGATIONS/HISTORICAL REVIEW

The subject site is classified as a Small Quantity, RCRA Hazardous Waste Generator.

RTP Environmental Associates, Inc. of Westbury, New York, conducted a Preliminary Phase I Site Assessment in September, 2004. The report identified the following areas of concern (AOC):

- Identify environmental concerns regarding the 10,000 gallon USTs
- Test the integrity of certain tanks
- Clean the inside of the building
- Get the building up to code with NYC Building Dept.
- Perform additional environmental investigations
- Identify the means of demolition and waste disposal

RTP reports that the main areas of "potential environmental concern" within the property are the USTs and the piping/vent lines associated with them.

In addition to the aforementioned report, FPM Group of Ronkonkoma, New York, conducted a Phase I Environmental Site Assessment in April 2005. This report was much more detailed than the RTP report. FPM Group identified several AOCs. They include:

- UST's, both known and suspected
- Oil-Water Separator
- Sub grade pipe chaseways (trenches)
- Loading Dock Drain
- Drum Storage Area
- Printing Press Pits

- Asbestos
- Silos
- Freight Elevator
- Oil Stained Walls
- Groundwater and soil gas (site wide)

5.0 PLASTICIZER IDENTIFICATION

During the manufacturing process to produce various plastic and vinyl products the subject site stored a group of chemicals commonly referred to as plasticizers. These plasticizers include:

Bis(2-ethylhexyl)terephthalate	(Eastman DOTP)
Bis(2-ethylhexyl)adipate	(Eastman DOA)
Phathalate mix	(DINP Plasticizer)
Palatinol 711P phthalate	(BASF 711P)

The listed plasticizers were stored in several large (up to 10,000 gallon) USTs and used depending on the final product. Storage of hecla oil (machine lubricant), fuel oil and acetone was also identified in various USTs. During the subsurface investigation activities for UST closure, plasticizer as a free light non aqueous liquid (LNAPL) was identified in several groundwater monitoring wells.

Between May and December 2006, ASR installed a monitoring well network consisting of 17 groundwater monitoring wells (2 inch diameter) and ten (10) product recovery wells (4 inch diameter). This monitoring well network delineated the vertical and horizontal extent of the LNAPL (Figure - 8, Appendix – A).
In an effort to identify the nature and source of the LNAPL, the above list of plasticizers were supplied to a laboratory and used as a reference to fingerprint match the LNAPL in monitoring wells MW-4 through MW-7, RW-2, RW-3, and RW-5. The results were inconclusive since multiple plasticizers were identified in the same monitoring wells and the references themselves consisted of blends of other compounds including phthalates.

After the delineation of the LNAPL, ASR installed a series of ten (10) strategically located product recovery wells as part of an interim remedial measure (IRM). This IRM was developed and implemented to begin the process of removing LNAPL from the groundwater table. This action is currently ongoing and has successfully recovered over 2,300 gallons of LNAPL plasticizer as of March 27, 2007. The IRM currently consists of two (2) product only pumps and daily hand bailing from all wells containing LNAPL.

5.1 Fuel Oil

In addition to plasticizer LNAPL, fuel oil has also been identified as a LNAPL in a confined area in close proximity to the underground fuel oil tank. Monitoring wells MW-1 in the building and MW-9 in the sidewalk adjacent to the fuel oil UST contain LNAPL. The thickness of product in the wells can not be accurately determined due to the high

viscosity of the product. Based on observations made on-site, LNAPL thickness in the monitoring wells appears to be less than one (1) inch. A four (4) inch diameter recovery well (RW-7) was installed adjacent to the fuel oil UST as part of the IRM.

6.0 SUBSURFACE SOIL DELINIATION

Given the size of the subject property, an extensive sampling protocol was developed. ASR staff designed a sampling network that was biased to the locations of the UST's (Borehole & Well Location Map, Figure - 2, Appendix A)

Between May 3, 2006 and July 24, 2006 ASR conducted 41 soil borings through the subject site. The sampling was conducted using a geoprobe direct push sampling rig, collecting discrete soil samples from grade to the groundwater table. At least one (1) sample from each borehole was submitted to a state certified laboratory for analysis of VOCs and SVOCs by EPA Method 8260 Stars and EPA Method 8270 Stars respectively. Several borehole locations were also sampled for pesticides by EPA Method 8081, PCBs by EPA Method 8082, and total RCRA Metals.

The results indicated detectable concentrations of VOCs in the soil samples from nine (9) of the 41 borehole locations, and detectable SVOCs (including plasticizers) in the soil samples from 30 of the 41 locations. Of the 30 samples containing detectable levels of SVOCs, 21 contained only plasticizers. The extent of soil contamination above NYSDEC guidance values was used to develop a Soil Impact Map indicating the delineated extent of the soil contamination by phthalates.

Mercury was detected in one (1) sample collected from soil boring SB-4 on May 2, 2006. Subsequently, the NYSDEC requested that the horizontal and vertical extent of the mercury identified in SB-4 be fully delineated. On December 7, 2006, ASR returned to this location and collected soil samples from the same location and depth as SB-4, five (5) feet north and 5 ft south. The samples were delivered to a state certified laboratory and analyzed for mercury only. The results indicated no detection of mercury in any of the samples collected, including the sample collected from the same location as SB-4.

The soil sample analytical results are summarized in the tables following Section 11.0.

7.0 GROUNDWATER MONITORING WELL INSTALLATIONS

To obtain additional information about the nature of the contaminant, assist in delineating the extent and provide a means to collected groundwater samples, ASR installed a monitoring well network. This network consists of 16 groundwater monitoring wells, four (4) of which are located inside the building. The monitoring wells were installed between May and December, 2006. Photographs of the well installations are attached in Appendix B. In general the well construction consists of 10 feet of 2 inch diameter well screen intersecting the groundwater table with soil riser pipe to the surface. Monitoring wells installed in the building were left stubbed up two feet above grade, and the wells installed in the sidewalks were completed below grade and

covered with a small bolt down manhole cover. Boring logs detailing the subsurface soil classifications and well construction are attached as Appendix – C.

8.0 GROUNDWATER SAMPLING ACTIVITIES and RESULTS

Shortly after the installation of each groundwater monitoring well, ASR returned to the site and gauged the well for depth to water and/or the detection of LNAPL using a sonic product interface probe. Of the 16 groundwater monitoring wells installed by ASR, six (6) contained various thickness of LNAPLs. Due to the presence of floating product, groundwater samples were not obtained from MW-1, MW-4 through MW-7, and MW-9. Groundwater samples from the remaining monitoring wells were collected and delivered to a state certified laboratory for analysis of VOCs and SVOCs by EPA Method 8260 Stars and EPA Method 8270 Stars respectively.

The groundwater sampling results indicated detectable concentrations of VOCs in the groundwater at three (3) of the ten (10) monitoring wells sampled, and detectable SVOCs (including plasticizers) in the groundwater samples from seven (7) of the ten (10) locations. The extent of groundwater contamination above NYSDEC guidance values developed a VOC Plume Map indicating the delineated extent of the soil contamination by phthalates.

No detection of VOCs or SVOCs above NSDEC guidance values were detected in the groundwater monitoring wells located across the adjacent streets.

The groundwater sample analytical results are summarized in the tables following Section 11.0.

9.0 INTERIM REMEDIAL MEASURE

During the field and data collection activities to develop the Phase II environmental site assessment, it was determined that the thickness and extent of the LNAPL identified on the subject site was sufficient enough to design and implement an interim remedial measure. Between October and December, 2006 ASR installed a total of ten (10) four (4) inch diameter product recovery wells. In November, 2006 two (2) recovery wells (RW-3 and RW-10) were retrofitted to maintain pumping units supplied by Spillbuster, Inc. The pumps use an auto seeking computer controlled mechanism to identify the product and groundwater interface. The pumps are designed to maintain less than one (1) inch of product in the well creating a cone-of-depression. Groundwater is not pumped by this system. The recovered product is pumped into 400 gallon capacity totes provided by the site. In addition to pumping, hand bailing of product is performed at the additional recovery wells and any monitoring wells which contain LNAPL. To date over 2,300 gallons of product has been recovered from the site. This IRM is anticipated to continue for product recovery.

10.0 GENERATED WASTE DISPOSAL

During the field activities of the Phase II investigation, drill cuttings were generated. Specifically, the soil cuttings from the installation of groundwater monitoring wells and product recovery wells. A total of three (3) drums of soil were generated. Due to the concentration of Phthalate in the soil cuttings the drums were classified as Hazardous Soils for transportation and disposal to a certified disposal facility. In addition to the soil cuttings several drums of soil and liquid were generated during the UST closure activities. These drum were also properly classified, transported and disposed of at a certified disposal facility. Manifests and Bills of Lading are attached as Appendix – E.

11.0 SUMMARY

Free Floating Product
Under the west side of the building extending into the sidewalk of Franklyn and Clay Streets is a plume of free floating phthalate. This product plume has been delineated and does not extend beyond Franklyn, Clay or Commercial Streets. The plume appears to be stable; this is expected with the decommissioning of all USTs. An IRM has been designed, installed and maintained since November, 2006 and has recovered to date over 2,300 gallons of product.

Soil Sample Results
In the west side of the building at the subject site, several phthalates (plasticizers) were detected at levels above and below the NYSDEC, "Allowable Soil Concentrations." These two phthalates, Bis(2-ethylhexyl)phthalate and Di-n-octylphthalate (believed to be DOTP and DINP respectfully), were detected in several soil boring samples taken from the western portion of the building. In addition, phthalates were detected in the soil below the sidewalk adjacent to the west side of the property. The two phthalates were also detected in the soil under the sidewalk adjacent to the north side of the building (Soil Plume Map, Appendix A).

The analysis of a series of samples collected from the west side of the building indicated the presence of several SVOCs both above and below the NYSDEC, "Allowable Soil Concentrations." This plume was found to be down groundwater gradient of hecla oil USTs. Lower levels of several SVOCs were also detected in the northeast portion of the property in the area of the Fuel Oil USTs.

Overall, VOCs were detected in a total of nine (9) soil borings, with the total VOCs ranging from 17 ppb to 40,500 ppb. The higher levels of VOCs were detected near the hecla oil tanks and #2 fuel oil tanks.

Groundwater Samples Results Summary
The phthalates detected inside the building, Bis(2-ethylhexyl)phthalate and Di-n-octylphthalate, were also detected in the groundwater inside the building. During the off site groundwater investigation, the phthalates were detected in wells directly adjacent to the building to the west. Based on the results of the groundwater monitoring wells, a plume of phthalates appears to be beneath the western portion of the building as well as down gradient under the sidewalk. No

detection of VOCs or SVOCs above NYSDEC guidance values were detected in the groundwater monitoring wells located across the adjacent streets.

VOCs in the groundwater were detected around the fuel oil UST in the northeast portion of the subject site.

Conclusion

Based on research, monitoring data and the analysis of the soil and groundwater samples collected in and adjacent to the subject site, several conclusions are suggested. It is suggested that a significant amount of plasticizers are currently adhered to the subsurface soils on the western portion of the subject site. Free floating phthalates (LNAPLs) has been identified in several monitoring wells in the western portion of the subject site as well as in the adjacent sidewalk on Franklyn Avenue and Clay Street.

Several smaller areas of soil and groundwater believed to be contaminated with oil constituents exist within the phthalate plume. A small area of VOC contamination exists in the north east portion of the property.

Based on the estimated volume of the contaminants detected, it is suggested that the phthalate plume is the largest area of concern. The phthalate plume, along with other minor contamination will be addressed as stated in the following section.

Recommendations

Based on the recognized environmental conditions identified during the Phase II Site Assessment, ASR makes the following recommendations for the subject property referenced as 49-55 Dupont Street in Brooklyn, New York:

- Continue the existing IRM, with a consideration of product recovery enhancement.
- Develop a conceptual design and potential work plan for excavation and removal of soil with the greatest concentration of phthalates.
- Coordinate on going remediation with the future use of the property.
- Consider removal of the USTs that are suspected of being the source of the product as a method for potential increased product recovery in the source area.
- Continue monitoring and sampling on and off-site groundwater monitoring wells on a quarterly schedule.

Soil Sampling Results Tables

TABLE - 1
Soil Analytical Results (ppb)

Parameter	TAGM 4046	SB-1		SB-2		SB-3		SB-4		SB-5		SB-6		SB-7	
VOCs (ug/kg)		**1-5ft**	**5-10ft**	**1-5ft**	**10-12ft**	**1-5ft**	**5-10ft**	**1-5ft**	**13-15ft**	**1-5ft**	**10-12ft**	**1-5ft**	**14-16ft**	**1-5ft**	**11-13ft**
1,2,4-Trimethylbenzene	130	ND	ND	ND	**1,700**	ND	ND	ND	ND	ND	**260**	ND	ND	ND	ND
1,3,5-Trimethylbenzene	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	**100**	ND	ND	ND	ND
p-Isopropyltoluene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	37	ND	ND	ND	ND
Benzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	**45**	ND	ND	ND	ND
MTBE	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	70	ND	ND	ND	ND
n-Butylbenzene	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	56	ND	ND	ND	ND
n-Propylbenzene	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	35	ND	ND	ND	ND
o-Xylene	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	**54**	ND	ND	ND	ND
SVOCs (ug/kg)															
Acenaphthene	920	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	370	ND
Anthracene	7,000	ND	ND	ND	ND	ND	ND	1,800	ND	1,700	ND	550	ND	620	ND
Benzo [a] anthracene	28	ND	ND	ND	ND	ND	ND	**3,900**	ND	**3,500**	ND	**2,000**	ND	**2,800**	ND
Benzo [a] pyrene	110	ND	ND	ND	ND	ND	ND	**2,700**	ND	**2,000**	ND	**1,300**	ND	**1,900**	ND
Benzo [b] fluoranthene	11	ND	ND	ND	ND	ND	ND	**2,400**	ND	**2,300**	ND	**1,400**	ND	**1,800**	ND
Benzo [g,h,i] perylene	80,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	390	ND	600	ND
Benzo [k] fluoranthene	11	ND	ND	ND	ND	ND	ND	**2,900**	ND	**1,900**	ND	**1,100**	ND	**1,400**	ND
Chyrsene	4	ND	ND	ND	ND	ND	ND	**4,000**	ND	**3,300**	ND	**1,800**	ND	**2,600**	ND
Dibenze [a,h] anthracene	1,650,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	340	ND
Fluoranthene	19,000	ND	ND	ND	ND	ND	ND	11,000	ND	8,300	ND	4,600	ND	5,500	ND
Fluorene	3,650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno [1,2,3-cd] pyrene	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**500**	ND	**680**	ND
Naphthalene	130	ND	ND	ND	ND	ND	ND	**2,000**	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	2,180	ND	ND	ND	ND	ND	ND	**13,000**	ND	**8,400**	ND	**2,700**	ND	**4,000**	ND
Pyrene	6,650	ND	ND	ND	ND	ND	ND	**9,000**	ND	**7,100**	ND	4,000	ND	5,100	ND
Bis(2-ethylhexyl)phthalate	4,350	ND	ND	ND	ND	ND	190	ND	**140,000**	ND	**150,000**	ND	**12,000,000**	**4,800**	**6,800**
Di-n-octylphthalate	1,200	ND	ND	ND	ND	ND	ND	ND	**200,000**	ND	ND	ND	ND	ND	ND

Guidance value is the NYSDEC Soil Cleanup Objective based on NYSDEC's TAGM 4046, dated January 24, 1994, revised August 22, 2001.
NS – Not Sampled
ND – Not detected above laboratory's minimum detection limit.

TABLE - 1
Soil Analytical Results (ppb)

Parameter	TAGM 4046	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16	SB-17	SB-18	SB-19
VOCs (ug/kg)													
1,2,4-Trimethylbenzene	130	ND	ND	ND	ND	ND	ND	**11,000**	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	33	ND	ND	ND	ND	ND	ND	**2,300**	ND	ND	ND	ND	ND
p-Isopropyltoluene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	55	ND	ND	ND	ND	ND	ND	**860**	ND	ND	ND	ND	ND
Isopropylbenzene	23	ND	ND	ND	ND	ND	ND	**660**	ND	ND	ND	ND	ND
m,p-Xylenes	12	ND	ND	ND	ND	ND	ND	**2,300**	ND	ND	ND	ND	ND
MTBE	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	130	ND	ND	ND	ND	ND	ND	**14,000**	ND	ND	ND	ND	ND
n-Butylbenzene	120	ND	ND	ND	ND	ND	ND	**2,600**	ND	ND	ND	ND	ND
n-Propylbenzene	37	ND	ND	ND	ND	ND	ND	**1,400**	ND	ND	ND	ND	ND
o-Xylene	12	ND	ND	ND	ND	ND	ND	**650**	ND	ND	ND	ND	ND
sec-Butylbenzene	110	ND	ND	ND	ND	ND	ND	**870**	ND	ND	ND	ND	ND
Toluene	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs (ug/kg)													
Acenaphthene	920	ND	ND	ND	ND	ND	ND	ND	ND	ND	580	ND	ND
Anthracene	7,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	390	ND	ND
Benzo [a] anthracene	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [a] pyrene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [b] fluoranthene	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [g,h,i] perylene	80,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [k] fluoranthene	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chyrsene	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenze [a,h] anthracene	1,650,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	19,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	340	ND	ND
Fluorene	3,650	ND	ND	ND	ND	ND	ND	ND	ND	ND	270	ND	ND
Indeno [1,2,3-cd] pyrene	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1,500**	ND	ND
Phenanthrene	2,180	ND	ND	ND	ND	ND	ND	ND	ND	ND	710	ND	ND
Pyrene	6,650	ND	ND	ND	ND	ND	ND	ND	ND	ND	500	ND	ND
Bis(2-ethylhexyl)phthalate	4,350	280	170	ND	260	ND	370	ND	ND	300	ND	ND	ND
Di-n-octylphthalate	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Guidance value is the NYSDEC Soil Cleanup Objective based on NYSDEC's TAGM 4046, dated January 24, 1994, revised August 22, 2001.
NS – Not Sampled
ND – Not detected above laboratory's minimum detection limit.

TABLE - 1
Soil Analytical Results (ppb)

Parameter	TAGM 4046	SB-20	SB-21	SB-23	SB-24	SB-32	SB-34	SB-36	SB-37	SB-38a	SB-38b	SB-39
VOCs (ug/kg)												
1,2,4-Trimethylbenzene	130	ND	ND	ND	ND	ND	74	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	33	ND	ND	ND	ND	ND	30	ND	ND	ND	ND	ND
p-Isopropyltoluene	110	ND	ND	ND	ND	ND	11	ND	ND	ND	ND	**210**
Benzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**190**
m,p-Xylenes	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	130	ND	ND	ND	ND	ND	28	ND	ND	ND	ND	ND
n-Butylbenzene	120	ND	ND	ND	ND	ND	25	ND	ND	ND	ND	**930**
n-Propylbenzene	37	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	**740**
o-Xylene	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	110	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	**400**
Toluene	15	ND	ND	ND	ND	ND	**27**	ND	ND	ND	ND	ND
SVOCs (ug/kg)												
Acenaphthene	920	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13,000**
Anthracene	7,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**25,000**
Benzo [a] anthracene	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**44,000**
Benzo [a] pyrene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**33,000**
Benzo [b] fluoranthene	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**26,000**
Benzo [g,h,i] perylene	80,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8,600
Benzo [k] fluoranthene	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**32,000**
Chyrsene	4	ND	ND	**220**	ND	ND	ND	ND	ND	ND	ND	**48,000**
Dibenze [a,h] anthracene	1,650,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	19,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**88,000**
Fluorene	3,650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**17,000**
Indeno [1,2,3-cd] pyrene	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10,000**
Naphthalene	130	ND	ND	**1,600**	ND	ND	ND	ND	ND	ND	ND	**12,000**
Phenanthrene	2,180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**86,000**
Pyrene	6,650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**80,000**
Bis(2-ethylhexyl)phthalate	4,350	ND	ND	380	**14,000**	1,500	**610,000**	ND	**100,000**	3,500	ND	ND
Di-n-octylphthalate	1,200	ND	ND	ND	**16,000**	ND	**41,000**	1,000	**8,300**	ND	1,000	ND

Guidance value is the NYSDEC Soil Cleanup Objective based on NYSDEC's TAGM 4046, dated January 24, 1994, revised August 22, 2001.
NS – Not Sampled
ND – Not detected above laboratory's minimum detection limit.

TABLE - 1
Soil Analytical Results (ppb)

Parameter	TAGM 4046	SB-44	SB-46	SB-48	SB-49	SB-50	SB-51	SB-52	SB-56	SB-57	SB-58	SB-59
VOCs (ug/kg)												
1,2,4-Trimethylbenzene	130	73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	12	**62**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	130	170	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	120	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	37	**58**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs (ug/kg)												
Acenaphthene	920	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	7,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [a] anthracene	28	ND	ND	ND	ND	ND	ND	**840**	ND	ND	ND	ND
Benzo [a] pyrene	110	ND	ND	ND	ND	ND	ND	**780**	ND	ND	ND	ND
Benzo [b] fluoranthene	11	ND	ND	ND	ND	ND	ND	**730**	ND	ND	ND	ND
Benzo [g,h,i] perylene	80,000	ND	ND	ND	ND	ND	ND	280	ND	ND	ND	ND
Benzo [k] fluoranthene	11	ND	ND	ND	ND	ND	ND	**590**	ND	ND	ND	ND
Chyrsene	4	ND	**220**	ND	ND	ND	ND	**740**	ND	ND	ND	ND
Dibenze [a,h] anthracene	1,650,000	ND	ND	ND	ND	ND	ND	210	ND	ND	ND	ND
Fluoranthene	19,000	ND	ND	ND	ND	ND	ND	1,200	ND	ND	ND	ND
Fluorene	3,650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno [1,2,3-cd] pyrene	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	130	ND	ND	ND	**690**	**220**	ND	ND	ND	ND	ND	ND
Phenanthrene	2,180	ND	ND	ND	ND	ND	ND	570	ND	ND	ND	ND
Pyrene	6,650	ND	ND	ND	ND	ND	ND	1,300	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	4,350	**20,000,000**	340	**4,800**	230	3,700	**34,000**	3,400	ND	**52,000**	320	ND
Di-n-octylphthalate	1,200	ND	ND	ND	330	1,000	**11,000**	460	ND	**6,800**	ND	ND

Guidance value is the NYSDEC Soil Cleanup Objective based on NYSDEC's TAGM 4046, dated January 24, 1994, revised August 22, 2001.
NS – Not Sampled
ND – Not detected above laboratory's minimum detection limit.

TABLE - 1
Soil Analytical Results (ppb)

Parameter	TAGM 4046	MW-5		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11
VOCs (ug/kg)		**4-9ft**	**10-15ft**	**5-10ft**	**10-15ft**	**5-10ft**	**10-15ft**	**5-10ft**	**10-15ft**	**5-10ft**	**5-10ft**	**5-10ft**	**10-15ft**	**8-10ft**
1,2,4-Trimethylbenzene	130	ND	**420**	ND	ND	ND	35	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	**480**	ND	ND	ND
Isopropylbenzene	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	**620**	ND	ND	ND
m,p-Xylenes	12	ND	ND	ND	ND	ND	**36**	ND	ND	ND	ND	ND	ND	ND
MTBE	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	130	ND	**220**	ND	ND	ND	ND	ND	ND	**4,000**	**3,600**	ND	ND	ND
n-Butylbenzene	120	ND	ND	ND	ND	ND	ND	ND	ND	**1,100**	**1,100**	ND	ND	ND
n-Propylbenzene	37	ND	ND	ND	ND	ND	ND	ND	ND	**850**	**1,100**	ND	ND	ND
o-Xylene	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	110	ND	ND	31	ND	ND	ND	ND	ND	**720**	**690**	ND	ND	ND
Toluene	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs (ug/kg)														
Acenaphthene	920	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170
Anthracene	7,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	320
Benzo [a] anthracene	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**350**
Benzo [a] pyrene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**180**
Benzo [b] fluoranthene	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [g,h,i] perylene	80,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [k] fluoranthene	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**210**
Chyrsene	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**320**
Dibenze [a,h] anthracene	1,650,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	19,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	740
Fluorene	3,650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170
Indeno [1,2,3-cd] pyrene	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	2,180	ND	ND	ND	ND	ND	ND	ND	ND	**5,600**	**17,000**	ND	ND	890
Pyrene	6,650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
Bis(2-ethylhexyl)phthalate	4,350	ND	**6,700,000**	**9,500,000**	**1,900,000**	**3,600**	**1,700,000**	ND	**12,000**	ND	**59,000**	ND	**6,300**	ND
Di-n-octylphthalate	1,200	ND	**1,300,000**	ND	**180,000**	ND	ND	ND	ND	ND	ND	ND	ND	ND

Guidance value is the NYSDEC Soil Cleanup Objective based on NYSDEC's TAGM 4046, dated January 24, 1994, revised August 22, 2001.
NS – Not Sampled
ND – Not detected above laboratory's minimum detection limit

TABLE - 1
Soil Analytical Results (ppb)

Parameter	TAGM 4046	MW-12	MW-13	MW-14	MW-15	MW-16	ASR-11		ASR-12	
VOCs (ug/kg)		**8-10ft**	**8-10ft**	**8-10ft**	**8-10ft**	**8-10ft**	**5-10ft**	**10-15ft**	**5-10ft**	**10-15ft**
1,2,4-Trimethylbenzene	130	73	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	33	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	55	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	23	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	12	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	130	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	120	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	37	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	12	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	15	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs (ug/kg)										
Acenaphthene	920	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	7,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [a] anthracene	28	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [a] pyrene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [b] fluoranthene	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [g,h,i] perylene	80,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [k] fluoranthene	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chyrsene	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenze [a,h] anthracene	1,650,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	19,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	3,650	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno [1,2,3-cd] pyrene	32	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	130	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	2,180	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	6,650	ND	ND	ND	ND	ND	ND	190	ND	ND
Bis(2-ethylhexyl)phthalate	4,350	ND	ND	ND	**6,400**	ND	ND	ND	ND	ND
Di-n-octylphthalate	1,200	ND	ND	ND	ND	990	ND	ND	ND	ND

Guidance value is the NYSDEC Soil Cleanup Objective based on NYSDEC's TAGM 4046, dated January 24, 1994, revised August 22, 2001.
NS – Not Sampled
ND – Not detected above laboratory's minimum detection limit

Groundwater Sampling Results Tables

TABLE - 1
Soil Analytical Results (ppb)

Parameter	TAGM 4046	MW-12	MW-13	MW-14	MW-15	MW-16	ASR-11		ASR-12	
VOCs (ug/kg)		**8-10ft**	**8-10ft**	**8-10ft**	**8-10ft**	**8-10ft**	**5-10ft**	**10-15ft**	**5-10ft**	**10-15ft**
1,2,4-Trimethylbenzene	130	73	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	33	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	55	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	23	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	12	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	130	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	120	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	37	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	12	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	15	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs (ug/kg)										
Acenaphthene	920	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	7,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [a] anthracene	28	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [a] pyrene	110	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [b] fluoranthene	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [g,h,i] perylene	80,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [k] fluoranthene	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chyrsene	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenze [a,h] anthracene	1,650,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	19,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	3,650	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno [1,2,3-cd] pyrene	32	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	130	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	2,180	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	6,650	ND	ND	ND	ND	ND	ND	190	ND	ND
Bis(2-ethylhexyl)phthalate	4,350	ND	ND	ND	**6,400**	ND	ND	ND	ND	ND
Di-n-octylphthalate	1,200	ND	ND	ND	ND	990	ND	ND	ND	ND

Guidance value is the NYSDEC Soil Cleanup Objective based on NYSDEC's TAGM 4046, dated January 24, 1994, revised August 22, 2001.
NS – Not Sampled
ND – Not detected above laboratory's minimum detection limit

TABLE - 2
Groundwater Sampling Results Data

Parameter	TOGS 1.1.1	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10
VOCs (ug/L)											
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	**6**	**11**	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	**11**	ND
Isopropylbenzene	5	5	ND	ND	ND	ND	ND	ND	ND	**8**	ND
m,p-Xylenes	10	ND	ND	ND	ND	ND	ND	ND	ND	**11**	ND
MTBE	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	**75**	ND	ND	ND	**8**	ND	ND	ND	**71**	ND
n-Butylbenzene	5	**6**	ND	ND	ND	ND	ND	ND	ND	**6**	ND
n-Propylbenzene	5	**7**	ND	ND	ND	ND	ND	ND	ND	**10**	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	**9**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs (ug/L)											
Acenaphthene	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [a] anthracene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [a] pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [b] fluoranthene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [g,h,i] perylene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo [k] fluoranthene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chyrsene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenze [a,h] anthracene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50	**75**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno [1,2,3-cd] pyrene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	**99**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50	**110**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	5	ND	**60**	**31**	**120,000**	**780,000**	**1,300,000**	**370,000**	**89**	ND	**6**
Di-n-octylphthalate	50	ND	ND	ND	**160,000**	**90,000**	ND	ND	ND	ND	ND

Guidance value is the NYSDEC Groundwater Quality Standards based on NYSDEC's TOGS 1.1.1, dated October 22, 1993, revised June 1998.
NS – Not Sampled
ND – Not detected above laboratory's minimum detection limit.

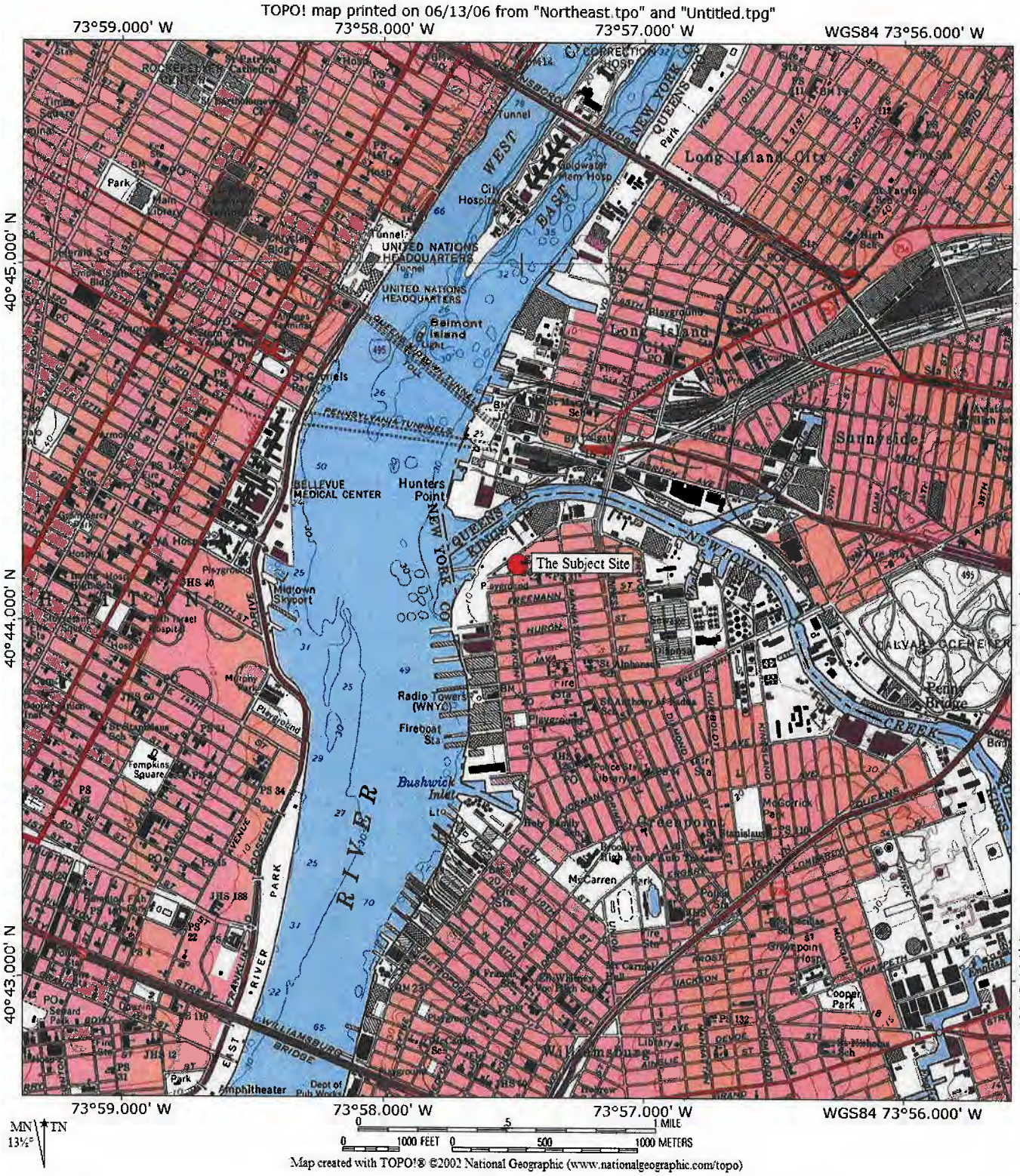
TABLE - 2
Groundwater Sampling Results Data

Parameter	TOGS 1.1.1	MW-11	MW-12	MW-13	MW-14	ASR-11	ASR-12
VOCs (ug/L)							
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	**2**	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND
m,p-Xylenes	10	ND	ND	ND	ND	ND	ND
MTBE	10	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	ND	**2,300**
n-Butylbenzene	5	ND	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND
SVOCs (ug/L)							
Acenaphthene	20	ND	ND	ND	ND	ND	ND
Anthracene	50	ND	ND	ND	ND	ND	ND
Benzo [a] anthracene	0.002	ND	ND	ND	ND	ND	ND
Benzo [a] pyrene	ND	ND	ND	ND	ND	ND	ND
Benzo [b] fluoranthene	0.002	ND	ND	ND	ND	ND	ND
Benzo [g,h,i] perylene	0.002	ND	ND	ND	ND	ND	ND
Benzo [k] fluoranthene	0.002	ND	ND	ND	ND	ND	ND
Chyrsene	0.002	ND	ND	ND	ND	ND	ND
Dibenze [a,h] anthracene	0.002	ND	ND	ND	ND	ND	ND
Fluoranthene	50	ND	ND	ND	ND	ND	ND
Fluorene	50	ND	ND	ND	ND	ND	ND
Indeno [1,2,3-cd] pyrene	0.002	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	ND	**210**
Phenanthrene	50	ND	ND	ND	ND	ND	ND
Pyrene	50	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	5	ND	**17**	ND	ND	**18**	ND
Di-n-octylphthalate	50	ND	ND	ND	ND	ND	ND

Guidance value is the NYSDEC Groundwater Quality Standards based on NYSDEC's TOGS 1.1.1, dated October 22, 1993, revised June 1998.
NS – Not Sampled
ND – Not detected above laboratory's minimum detection limit.

APPENDIX – A

Figures



Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)

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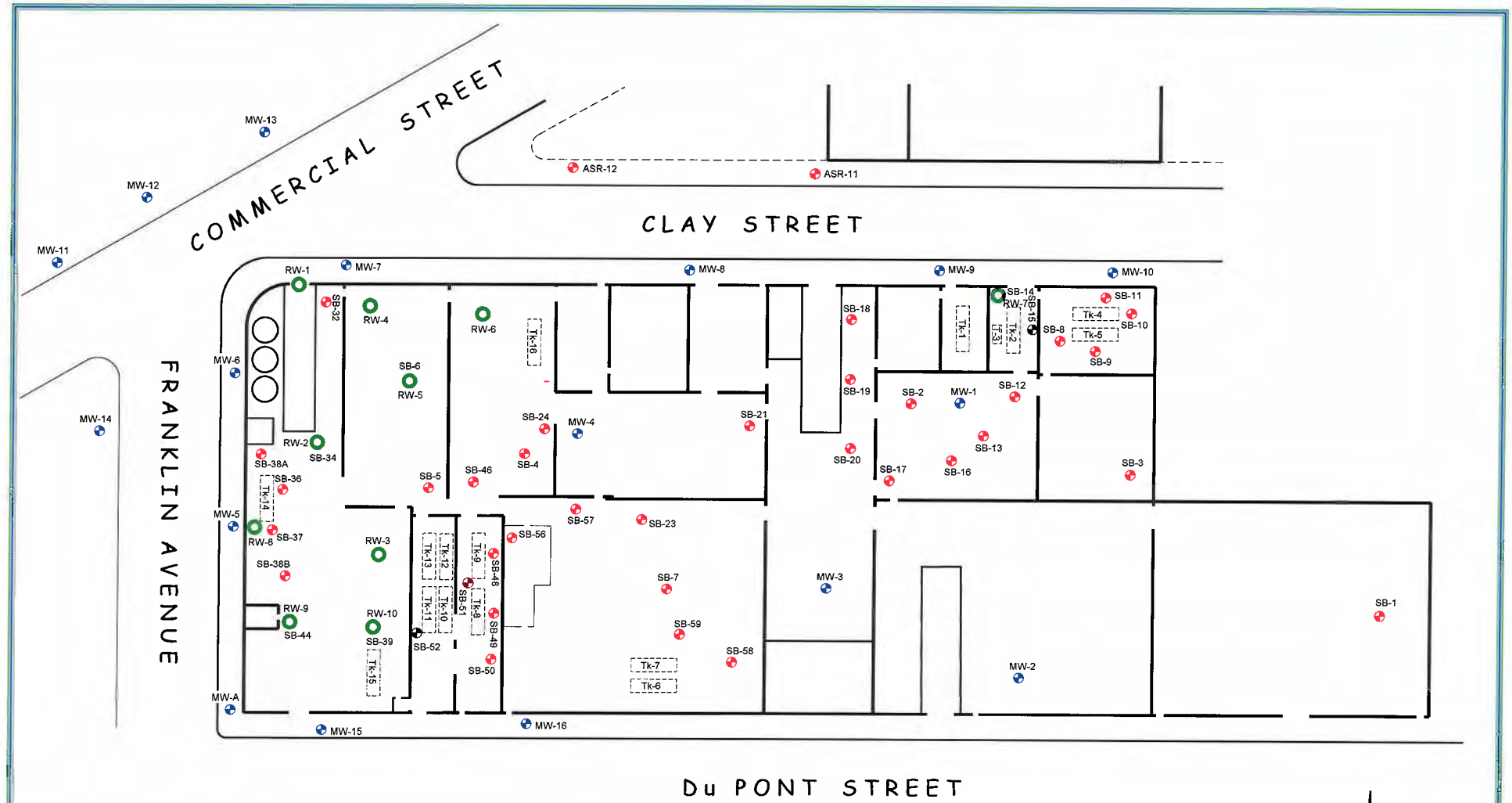
Figure - 1
Site Location Map
49-55 Dupont Street
Brooklyn, New York 11222



MW-2
Location of Groundwater Monitoring Well

SB-22
Location of Geoprobe Soil Boring

RW-3
Location of Product Recovery Wells

North

Not to Scale

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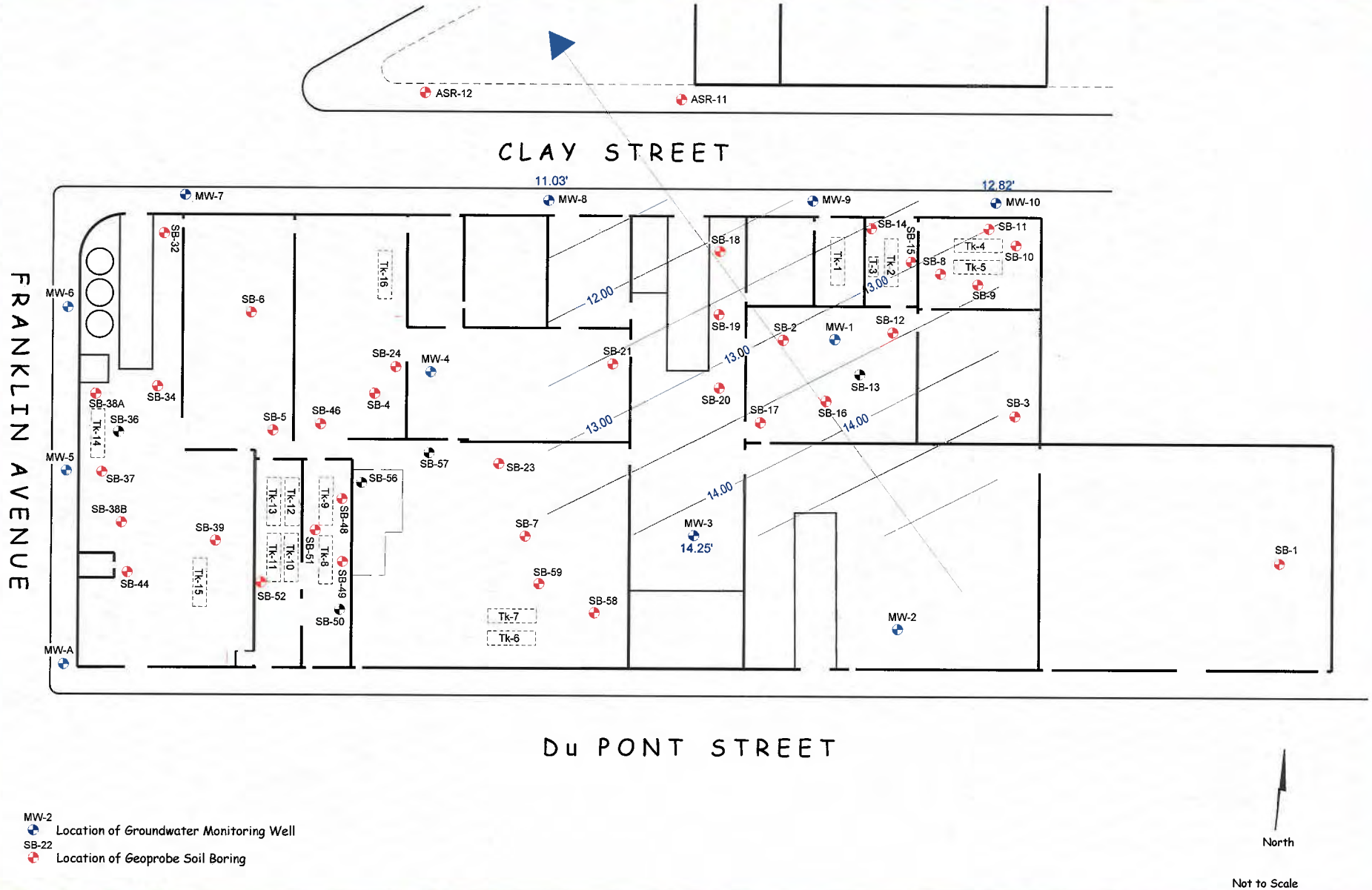
Borehole & Well Location Map
December 2006

SWM

Rev: 12/14/06

NuHart & Company, Inc.
49 - 55 Dupont Street
Brooklyn, New York



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Groundwater Gradient Map
August 1, 2006

SWM

Rev: 08/23/06

NuHart & Company, Inc.
49 - 55 Dupont Street
Brooklyn, New York

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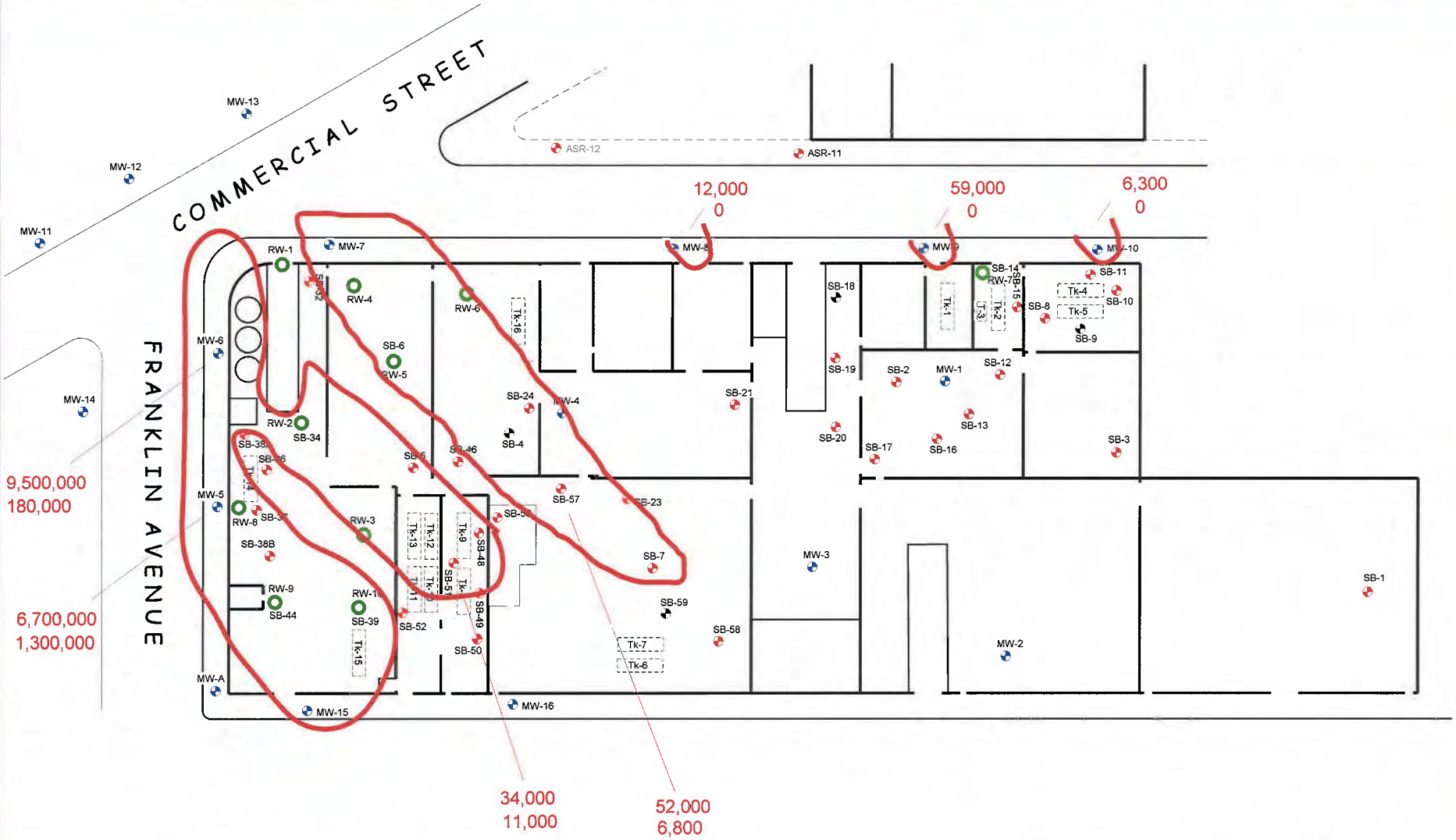
SWM

LNAPL Map
49 - 55 Dupont Street
Brooklyn, New York
April 2007

MW-2 Location of Groundwater Monitoring Well
SB-22 Location of Geoprobe Soil Boring
RW-3 Location of Product Recovery Wells
Area where LNAPL was detected

North

Not to Scale



Total Bis (2-Ethylhexyl) Phthalate
Total Di-n-Octylphthalate

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Phthalates in Soil Exceeding TAGM 4046

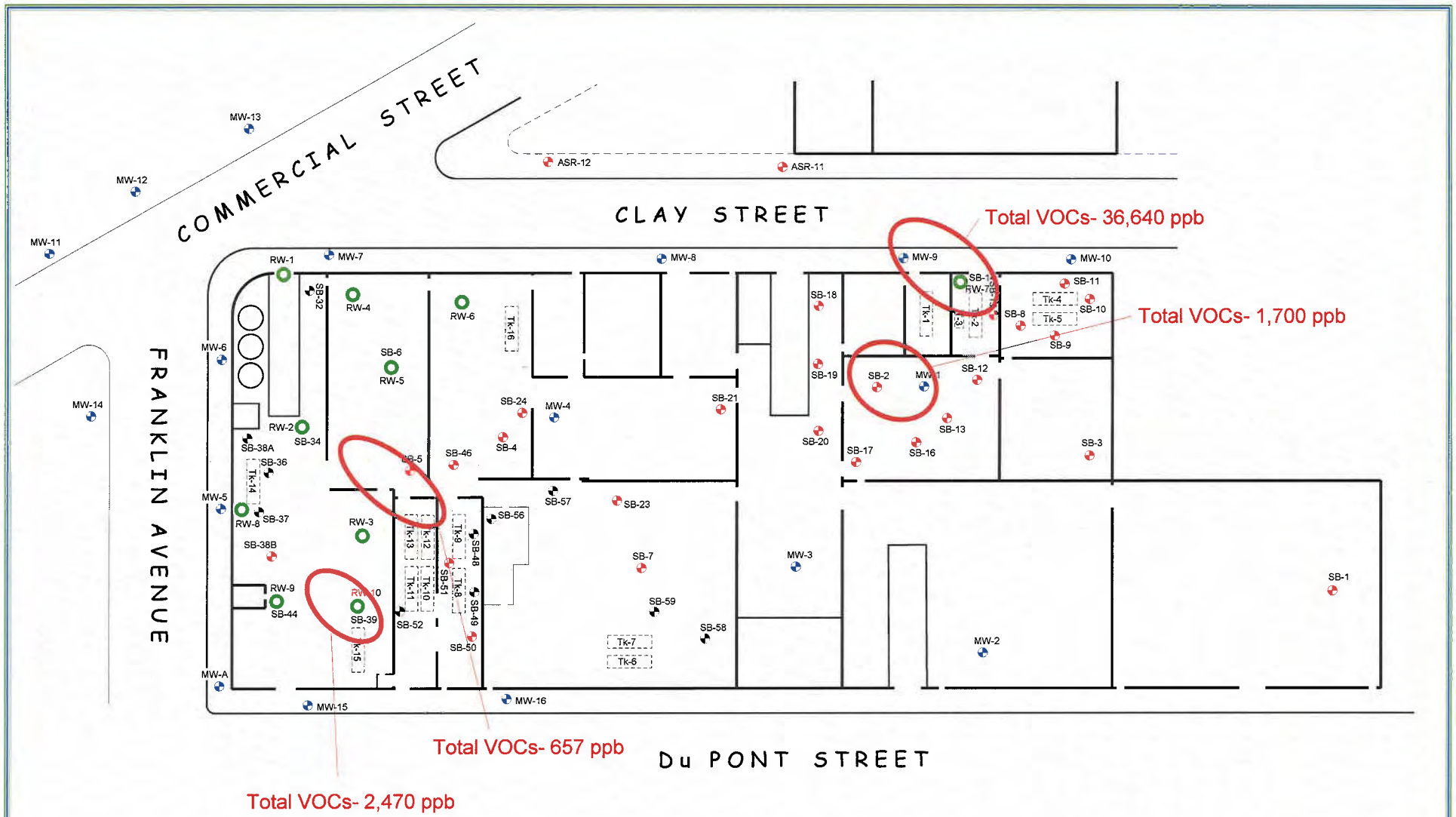
49 - 55 Dupont Street
Brooklyn, New York
April 2007

SWM

MW-2 Location of Groundwater Monitoring Well
SB-22 Location of Geoprobe Soil Boring
RW-3 Location of Product Recovery Wells
Area where Bis (2-ethylhexyl) phthalate and Di-n-octylphthalate were detected above NYCDEC TAGM 4046

North

Not to Scale



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VOCs in Soil Exceeding TAGM 4046
49 - 55 Dupont Street
Brooklyn, New York
April 2007

SWM

MW-2 Location of Groundwater Monitoring Well
SB-22 Location of Geoprobe Soil Boring
RW-3 Location of Product Recovery Wells
Area where VOCs detected above NYSDEC TAGM 4046

North
Not to Scale

APPENDIX – B

Site Photographs

54TH Ave
Vernon Blvd
53RD Ave
Borden Ave
Newtown Creek
East River
Manhattan Ave
Ash St
Box St
Commercial St
Clay St
Paidge Ave
McGuinness Blvd
Dupont St
Eagle St
Freeman St
Green St

54TH Ave
Vernon Blvd
53RD Ave
Borden Ave
Newtown Creek
East River
Manhattan Ave
Ash St
Box St
Commercial St
Clay St
Paidge Ave
McGuinness Blvd
Dupont St
Eagle St
Freeman St
Green St

CAUTION

CAUTION

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ONE WAY
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6620DT
CAUTION

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631-586-0600

APPENDIX - C

Boring Logs

Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring MW-1** Sheet 1 of 1

Date(s) Drilled **May 2006**	Logged By **Anthony Adesso**	Checked By **Steve Muller**
Drilling Method **Direct Push**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **geo probe**	Drilling Contractor **Fenley & Nicol**	Approximate Surface Elevation **15 feet**
Groundwater Level and Date Measured **10.83 feet measured on 11/20/2006**	Sampling Method(s) **None**	Hammer Data
Borehole Backfill **Multiple Backfill Materials**	Location **Northeast Section of Building, south of Acetone, Fuel Oil tanks**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			
5	10							11/20/2006 ▼			
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont
Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222
Project Number:

Log of Boring MW-2

Sheet 1 of 1

Date(s) Drilled	**May 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Direct Push**	Drill Bit Size/Type	**3 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Fenley & Nicol**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**11.78 feet measured on 05/10/2006**	Sampling Method(s)	**None**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**South east section of site, away from UST's**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			
5	10							05/10/2006 ▼			
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring MW-3** Sheet 1 of 1

Date(s) Drilled	**May 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Direct Push**	Drill Bit Size/Type	**3 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Fenley & Nicol**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**9.83 feet measured on 8/1/2006**	Sampling Method(s)	**None**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**Center of property, loading dock area, away from UST's**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			
5	10							8/1/2006 ▼			
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont
Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222
Project Number:

Log of Boring MW-4

Sheet 1 of 1

Date(s) Drilled **May 2006**	Logged By **Anthony Adesso**	Checked By **Steve Muller**
Drilling Method **Direct Push**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **geo probe**	Drilling Contractor **Fenley & Nicol**	Approximate Surface Elevation **15 feet**
Groundwater Level and Date Measured **13.56 feet measured on 11/20/2006**	Sampling Method(s) **None**	Hammer Data
Borehole Backfill **Multiple Backfill Materials**	Location **North west section of property, in vicinity of Phthalate and Hecla Oil UST's**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			
5	10							11/20/2006			
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring MW-5** Sheet 1 of 1

Date(s) Drilled **May 2006**	Logged By **Anthony Adesso**	Checked By **Steve Muller**
Drilling Method **Direct Push**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **geo probe**	Drilling Contractor **Fenley & Nicol**	Approximate Surface Elevation **15 feet**
Groundwater Level and Date Measured **10.3 feet measured on 11/20/2006**	Sampling Method(s) **Grab**	Hammer Data
Borehole Backfill **Multiple Backfill Materials**	Location **Sidewalk along the west side of the property, along Franklin Ave**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			No contamination detected
5	10							11/20/2006 ▼			Minor VOCs detected Phthalates detected @ 8,000,000 ppb
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring MW-6** Sheet 1 of 1

Date(s) Drilled **May 2006**	Logged By **Anthony Adesso**	Checked By **Steve Muller**
Drilling Method **Direct Push**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **geo probe**	Drilling Contractor **Fenley & Nicol**	Approximate Surface Elevation **15 feet**
Groundwater Level and Date Measured **8.85 feet measured on 11/20/2006**	Sampling Method(s) **Grab**	Hammer Data
Borehole Backfill **Multiple Backfill Materials**	Location **Sidewalk along the north west side of the property, along Franklin Ave**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			Minor VOCs, Phthalates detected @ 9,500,000 ppb
								11/20/2006 ▼			
5	10										Modeare VOCs, Phthalates detected @ 2,080,000 ppb
0	15					CL		Silty clays, sandy silt			
								Bottom of Boring at 19 feet bgs			
-5	20										
-10	25										
-15	30										

Figure

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Project: Dupont Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222 Project Number:	**Log of Boring MW-7** Sheet 1 of 1

Date(s) Drilled **May 2006**	Logged By **Anthony Adesso**	Checked By **Steve Muller**
Drilling Method **Direct Push**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **geo probe**	Drilling Contractor **Fenley & Nicol**	Approximate Surface Elevation **15 feet**
Groundwater Level and Date Measured **8.8 feet measured on 11/20/2006**	Sampling Method(s) **Grab**	Hammer Data
Borehole Backfill **Multiple Backfill Materials**	Location **Sidewalk along the north west side of the property, along Clay Street**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			
								11/20/2006 ▼			
5	10										Minor VOCs detected Phthalates detected @1,700,000 ppb
0	15					CL		Silty clays, sandy silt			
								Bottom of Boring at 19 feet bgs			
-5	20										
-10	25										
-15	30										

Figure

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Project: Dupont
Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222
Project Number:

Log of Boring MW-8

Sheet 1 of 1

Date(s) Drilled **May 2006**	Logged By **Anthony Adesso**	Checked By **Steve Muller**
Drilling Method **Direct Push**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **geo probe**	Drilling Contractor **Fenley & Nicol**	Approximate Surface Elevation **15 feet**
Groundwater Level and Date Measured **9.46 feet measured on 08/10/2006**	Sampling Method(s) **Grab**	Hammer Data
Borehole Backfill **Multiple Backfill Materials**	Location **Sidewalk along the north side of the property, along Clay Street**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			
5	10							08/10/2006 ▼			No VOCs detected Phthalates detected @ 12,000
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

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Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring MW-9** Sheet 1 of 1

Date(s) Drilled	**May 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Direct Push**	Drill Bit Size/Type	**3 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Fenley & Nicol**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**10.22 feet measured on 08/10/2006**	Sampling Method(s)	**Grab**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**Sidewalk along the north east side of the property, along Clay Street**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			
5	10							08/10/2006 ▼			Elevated VOCs detected Phthalates detected @ 59,000 ppb SVOCs detected
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

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Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring MW-10** Sheet 1 of 1

Date(s) Drilled	**May 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Direct Push**	Drill Bit Size/Type	**3 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Fenley & Nicol**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**8.22 feet measured on 08/01/2006**	Sampling Method(s)	**Grab**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**Sidewalk along the north east side of the property, along Clay Street**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			
								08/01/2006 ▼			
5	10										No VOCs detected Phthalates detected @ 6,300 ppb
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

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Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring MW-11** Sheet 1 of 1

Date(s) Drilled **May 2006**	Logged By **Anthony Adesso**	Checked By **Steve Muller**
Drilling Method **Direct Push**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **geo probe**	Drilling Contractor **Fenley & Nicol**	Approximate Surface Elevation **15 feet**
Groundwater Level and Date Measured **7.07 feet measured on 09/19/2006**	Sampling Method(s) **Grab**	Hammer Data
Borehole Backfill **Multiple Backfill Materials**	Location **Sidewalk across Commercial Street to the north west of the property**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand 09/19/2006			SVOCs detected
5	10										
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

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Project: Dupont
Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222
Project Number:

Log of Boring MW-12

Sheet 1 of 1

Date(s) Drilled **May 2006**	Logged By **Anthony Adesso**	Checked By **Steve Muller**
Drilling Method **Direct Push**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **geo probe**	Drilling Contractor **Fenley & Nicol**	Approximate Surface Elevation **15 feet**
Groundwater Level and Date Measured **7.1 feet measured on 09/19/2006**	Sampling Method(s) **Grab**	Hammer Data
Borehole Backfill **Multiple Backfill Materials**	Location **Sidewalk across Commercial Street to the north west of the property**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand 09/19/2006			
5	10										No contamination detected
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

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Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring MW-13** Sheet 1 of 1

Date(s) Drilled **May 2006**	Logged By **Anthony Adesso**	Checked By **Steve Muller**
Drilling Method **Direct Push**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **geo probe**	Drilling Contractor **Fenley & Nicol**	Approximate Surface Elevation **15 feet**
Groundwater Level and Date Measured **7.16 feet measured on 09/19/2006**	Sampling Method(s) **Grab**	Hammer Data
Borehole Backfill **Multiple Backfill Materials**	Location **Sidewalk across Commercial Street to the north west of the property**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand 09/19/2006 ▼			
5	10										No contamination detected
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring MW-14** Sheet 1 of 1

Date(s) Drilled **May 2006**	Logged By **Anthony Adesso**	Checked By **Steve Muller**
Drilling Method **Direct Push**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **geo probe**	Drilling Contractor **Fenley & Nicol**	Approximate Surface Elevation **15 feet**
Groundwater Level and Date Measured **8.11 feet measured on 09/19/2006**	Sampling Method(s) **Grab**	Hammer Data
Borehole Backfill **Multiple Backfill Materials**	Location **Sidewalk across Franklin Street to the west of the property**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand 09/19/2006 ▼			
5	10										No contamination detected
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

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Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring MW-15** Sheet 1 of 1

Date(s) Drilled **May 2006**	Logged By **Anthony Adesso**	Checked By **Steve Muller**
Drilling Method **Direct Push**	Drill Bit Size/Type **3 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **geo probe**	Drilling Contractor **Fenley & Nicol**	Approximate Surface Elevation **15 feet**
Groundwater Level and Date Measured **Not Measured**	Sampling Method(s) **Grab**	Hammer Data
Borehole Backfill **Multiple Backfill Materials**	Location **Sidewalk, along the Dupont Street, along the south west section of the site**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			Phthalates detected
5	10										
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring MW-16** Sheet 1 of 1

Date(s) Drilled	**May 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Direct Push**	Drill Bit Size/Type	**3 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Fenley & Nicol**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**Not Measured**	Sampling Method(s)	**Grab**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**Sidewalk, along the Dupont Street, along the south west section of the site**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			No contamination detected
5	10										Minor VOCs detected Phthalates detected @ 8,000,000 ppb
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont
Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222
Project Number:

Log of Boring RW-1

Sheet 1 of 1

Date(s) Drilled	**October 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Truck Mounted**	Drill Bit Size/Type	**6 5/8 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Aggressive Environmental Inc.**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**Not Measured**	Sampling Method(s)	**None**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**Northwest corner of the subject site**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GW		cocrete, rocks and pebbles			
10	5					CL-ML		very fine silty sand			
5	10										
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont
Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222
Project Number:

Log of Boring RW-2

Sheet 1 of 1

Date(s) Drilled **October 2006**	Logged By **Anthony Adesso**	Checked By **Steve Muller**
Drilling Method **Truck Mounted**	Drill Bit Size/Type **6 5/8 inch**	Total Depth of Borehole **19 feet bgs**
Drill Rig Type **geo probe**	Drilling Contractor **Aggressive Environmental Inc.**	Approximate Surface Elevation **15 feet**
Groundwater Level and Date Measured **Not Measured**	Sampling Method(s) **None**	Hammer Data
Borehole Backfill **Multiple Backfill Materials**	Location **Far west side of the site, in the center**	

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			
5	10										
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

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Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring RW-3** Sheet 1 of 1

Date(s) Drilled	**October 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Truck Mounted**	Drill Bit Size/Type	**6 5/8 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Aggressive Environmental Inc.**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**Not Measured**	Sampling Method(s)	**None**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**South west section of the site**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GW		cocrete, rocks and pebbles			
10	5					CL-ML		very fine silty sand			
5	10										
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont
Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222
Project Number:

Log of Boring RW-4

Sheet 1 of 1

Date(s) Drilled	**October 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Truck Mounted**	Drill Bit Size/Type	**6 5/8 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Aggressive Environmental Inc.**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**Not Measured**	Sampling Method(s)	**None**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location			

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GW		cocrete, rocks and pebbles			
10	5					CL-ML		very fine silty sand			
5	10										
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

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Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring RW-5** Sheet 1 of 1

Date(s) Drilled	**December 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Direct Push**	Drill Bit Size/Type	**6 5/8 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Longshore Environmental**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**Not Measured**	Sampling Method(s)	**None**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**North west section of the subject site**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			
5	10										
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring RW-6** Sheet 1 of 1

Date(s) Drilled	**December 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Direct Push**	Drill Bit Size/Type	**6 5/8 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Longshore Environmental**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**Not Measured**	Sampling Method(s)	**None**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**North west section of the subject site**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			
5	10										
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont
Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222
Project Number:

Log of Boring RW-7

Sheet 1 of 1

Date(s) Drilled	**December 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Direct Push**	Drill Bit Size/Type	**6 5/8 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Longshore Environmental**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**Not Measured**	Sampling Method(s)	**None**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**North east section of the subject site, around Acetone, Fuel Oil Tanks**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GM		brown dirt			
10	5					CL-ML		very fine silty sand			
5	10										
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont **Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222** **Project Number:**	**Log of Boring RW-8** Sheet 1 of 1

Date(s) Drilled	**December 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Direct Push**	Drill Bit Size/Type	**6 5/8 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Longshore Environmental**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**Not Measured**	Sampling Method(s)	**None**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**South west section of the site, to the west of Phthalate & Hecla Oil Tanks**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GW		cocrete, rocks and pebbles			
10	5					CL-ML		very fine silty sand			
5	10										
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont
Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222
Project Number:

Log of Boring RW-9

Sheet 1 of 1

Date(s) Drilled	**December 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Direct Push**	Drill Bit Size/Type	**6 5/8 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Longshore Environmental**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**Not Measured**	Sampling Method(s)	**None**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**South west section of the site, to the west of Phthalate & Hecla Oil Tanks**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GW		cocrete, rocks and pebbles			
10	5					CL-ML		very fine silty sand			
5	10										
0	15					CL		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

Project: Dupont
Project Location: 49-55 Dupont Street, Brooklyn N.Y. 11222
Project Number:

Log of Boring RW-10

Sheet 1 of 1

Date(s) Drilled	**December 2006**	Logged By	**Anthony Adesso**	Checked By	**Steve Muller**
Drilling Method	**Direct Push**	Drill Bit Size/Type	**6 5/8 inch**	Total Depth of Borehole	**19 feet bgs**
Drill Rig Type	**geo probe**	Drilling Contractor	**Longshore Environmental**	Approximate Surface Elevation	**15 feet**
Groundwater Level and Date Measured	**Not Measured**	Sampling Method(s)	**None**	Hammer Data	
Borehole Backfill	**Multiple Backfill Materials**	Location	**South west section of the site, to the west of Phthalate & Hecla Oil Tanks**		

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Water Content, %	Well Log	REMARKS AND OTHER TESTS
15	0					GW		cocrete, rocks and pebbles			
10	5					CL		very fine silty sand			
5	10										
0	15					ML		Silty clays, sandy silt			
-5	20							Bottom of Boring at 19 feet bgs			
-10	25										
-15	30										

Figure

F:\Folkman Dupont\Boring Logs-MW-1-16, RW-1-10.bgs [Well Log - 1 Lab.tpl]

APPENDIX - D

Laboratory Analytical Reports

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 5/10/2006
Re: Client Project ID: 49 Dupont
York Project No.: 06050130

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 5/10/2006
Client Project ID: 49 Dupont
York Project No.: 06050130

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 05/03/06. The project was identifed as your project "49 Dupont ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			SB-1/5-10'		SB-2/10-12'	
York Sample ID			06050130-01		06050130-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	500
1,1,1-Trichloroethane			Not detected	10	Not detected	500
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	500
1,1,2-Trichloroethane			Not detected	10	Not detected	500
1,1-Dichloroethane			Not detected	10	Not detected	500
1,1-Dichloroethylene			Not detected	10	Not detected	500
1,1-Dichloropropylene			Not detected	10	Not detected	500
1,2,3-Trichlorobenzene			Not detected	10	Not detected	500
1,2,3-Trichloropropane			Not detected	10	Not detected	500
1,2,3-Trimethylbenzene			Not detected	10	Not detected	500
1,2,4-Trichlorobenzene			Not detected	10	Not detected	500
1,2,4-Trimethylbenzene			Not detected	10	1700	500
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	500
1,2-Dibromoethane			Not detected	10	Not detected	500
1,2-Dichlorobenzene			Not detected	10	Not detected	500
1,2-Dichloroethane			Not detected	10	Not detected	500

YORK

Client Sample ID			SB-1/5-10'		SB-2/10-12'	
York Sample ID			06050130-01		06050130-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	500
1,2-Dichloropropane			Not detected	10	Not detected	500
1,3,5-Trimethylbenzene			Not detected	10	Not detected	500
1,3-Dichlorobenzene			Not detected	10	Not detected	500
1,3-Dichloropropane			Not detected	10	Not detected	500
1,4-Dichlorobenzene			Not detected	10	Not detected	500
1-Chlorohexane			Not detected	10	Not detected	500
2,2-Dichloropropane			Not detected	10	Not detected	500
2-Chlorotoluene			Not detected	10	Not detected	500
4-Chlorotoluene			Not detected	10	Not detected	500
Benzene			Not detected	10	Not detected	500
Bromobenzene			Not detected	10	Not detected	500
Bromochloromethane			Not detected	10	Not detected	500
Bromodichloromethane			Not detected	10	Not detected	500
Bromoform			Not detected	10	Not detected	500
Bromomethane			Not detected	10	Not detected	500
Carbon tetrachloride			Not detected	10	Not detected	500
Chlorobenzene			Not detected	10	Not detected	500
Chloroethane			Not detected	10	Not detected	500
Chloroform			Not detected	10	Not detected	500
Chloromethane			Not detected	10	Not detected	500
cis-1,3-Dichloropropylene			Not detected	10	Not detected	500
Dibromochloromethane			Not detected	10	Not detected	500
Dibromomethane			Not detected	10	Not detected	500
Dichlorodifluoromethane			Not detected	10	Not detected	500
Ethylbenzene			Not detected	10	Not detected	500
Hexachlorobutadiene			Not detected	10	Not detected	500
Isopropylbenzene			Not detected	10	Not detected	500
Methylene chloride			Not detected	10	Not detected	500
MTBE			Not detected	10	Not detected	500
Naphthalene			Not detected	10	Not detected	500
n-Butylbenzene			Not detected	10	Not detected	500
n-Propylbenzene			Not detected	10	Not detected	500
o-Xylene			Not detected	10	Not detected	500
p- & m-Xylenes			Not detected	10	Not detected	500
p-Isopropyltoluene			Not detected	10	Not detected	500
sec-Butylbenzene			Not detected	10	Not detected	500
Styrene			Not detected	10	Not detected	500
tert-Butylbenzene			Not detected	10	Not detected	500
Tetrachloroethylene			Not detected	10	Not detected	500
Toluene			Not detected	10	Not detected	500
trans-1,3-Dichloropropylene			Not detected	10	Not detected	500
Trichloroethylene			Not detected	10	Not detected	500
Trichlorofluoromethane			Not detected	10	Not detected	500
Vinyl chloride			Not detected	10	Not detected	500
BNA-8270 List	SW846-8270C	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	330
1,2-Dichlorobenzene			Not detected	165	Not detected	330
1,3-Dichlorobenzene			Not detected	165	Not detected	330
1,4-Dichlorobenzene			Not detected	165	Not detected	330
2,4,5-Trichlorophenol			Not detected	165	Not detected	330

YORK

Client Sample ID			SB-1/5-10'		SB-2/10-12'	
York Sample ID			06050130-01		06050130-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
2,4,6-Trichlorophenol			Not detected	165	Not detected	330
2,4-Dichlorophenol			Not detected	165	Not detected	330
2,4-Dimethylphenol			Not detected	165	Not detected	330
2,4-Dinitrophenol			Not detected	165	Not detected	330
2,4-Dinitrotoluene			Not detected	165	Not detected	330
2,6-Dinitrotoluene			Not detected	165	Not detected	330
2-Chloronaphthalene			Not detected	165	Not detected	330
2-Chlorophenol			Not detected	165	Not detected	330
2-Methylnaphthalene			Not detected	165	Not detected	330
2-Methylphenol			Not detected	165	Not detected	330
2-Nitroaniline			Not detected	165	Not detected	330
2-Nitrophenol			Not detected	165	Not detected	330
3,3'-Dichlorobenzidine			Not detected	165	Not detected	330
3-Methylphenol			Not detected	165	Not detected	330
3-Nitroaniline			Not detected	165	Not detected	330
4,6-Dinitro-2-methylphenol			Not detected	165	Not detected	330
4-Bromophenyl phenyl ether			Not detected	165	Not detected	330
4-Chloro-3-methyl phenol			Not detected	165	Not detected	330
4-Chloroaniline			Not detected	165	Not detected	330
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	330
4-Methylphenol			Not detected	165	Not detected	330
4-Nitroaniline			Not detected	165	Not detected	330
4-Nitrophenol			Not detected	165	Not detected	330
Acenaphthene			Not detected	165	Not detected	330
Acenaphthylene			Not detected	165	Not detected	330
Aniline			Not detected	165	Not detected	330
Anthracene			Not detected	165	Not detected	330
Benzidine			Not detected	165	Not detected	330
Benzo(a)anthracene			Not detected	165	Not detected	330
Benzo(a)pyrene			Not detected	165	Not detected	330
Benzo(b)fluoranthene			Not detected	165	Not detected	330
Benzo(g,h,i)perylene			Not detected	165	Not detected	330
Benzo(k)fluoranthene			Not detected	165	Not detected	330
Benzyl alcohol			Not detected	165	Not detected	330
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	330
Bis(2-chloroethyl)ether			Not detected	165	Not detected	330
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	330
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	330
Butyl benzyl phthalate			Not detected	165	Not detected	330
Chrysene			Not detected	165	Not detected	330
Dibenz(a,h)anthracene			Not detected	165	Not detected	330
Dibenzofuran			Not detected	165	Not detected	330
Diethylphthalate			Not detected	165	Not detected	330
Dimethylphthalate			Not detected	165	Not detected	330
Di-n-butylphthalate			Not detected	165	Not detected	330
Di-n-octylphthalate			Not detected	165	Not detected	330
Fluoranthene			Not detected	165	Not detected	330
Fluorene			Not detected	165	Not detected	330
Hexachlorobenzene			Not detected	165	Not detected	330
Hexachlorobutadiene			Not detected	165	Not detected	330
Hexachlorocyclopentadiene			Not detected	165	Not detected	330

YORK

Client Sample ID			SB-1/5-10'		SB-2/10-12'	
York Sample ID			06050130-01		06050130-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Hexachloroethane			Not detected	165	Not detected	330
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	330
Isophorone			Not detected	165	Not detected	330
Naphthalene			Not detected	165	Not detected	330
Nitrobenzene			Not detected	165	Not detected	330
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	330
N-Nitrosodiphenylamine			Not detected	165	Not detected	330
Pentachlorophenol			Not detected	165	Not detected	330
Phenanthrene			Not detected	165	Not detected	330
Phenol			Not detected	165	Not detected	330
Pyrene			Not detected	165	Not detected	330
Pyridine			Not detected	165	Not detected	330

Client Sample ID			SB-3/5-10'		SB-4/13-15'	
York Sample ID			06050130-03		06050130-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	10	Not detected	130
1,1,1-Trichloroethane			Not detected	10	Not detected	130
1,1,2,2-Tetrachloroethane			Not detected	10	Not detected	130
1,1,2-Trichloroethane			Not detected	10	Not detected	130
1,1-Dichloroethane			Not detected	10	Not detected	130
1,1-Dichloroethylene			Not detected	10	Not detected	130
1,1-Dichloropropylene			Not detected	10	Not detected	130
1,2,3-Trichlorobenzene			Not detected	10	Not detected	130
1,2,3-Trichloropropane			Not detected	10	Not detected	130
1,2,3-Trimethylbenzene			Not detected	10	Not detected	130
1,2,4-Trichlorobenzene			Not detected	10	Not detected	130
1,2,4-Trimethylbenzene			Not detected	10	Not detected	130
1,2-Dibromo-3-chloropropane			Not detected	10	Not detected	130
1,2-Dibromoethane			Not detected	10	Not detected	130
1,2-Dichlorobenzene			Not detected	10	Not detected	130
1,2-Dichloroethane			Not detected	10	Not detected	130
1,2-Dichloroethylene (Total)			Not detected	10	Not detected	130
1,2-Dichloropropane			Not detected	10	Not detected	130
1,3,5-Trimethylbenzene			Not detected	10	Not detected	130
1,3-Dichlorobenzene			Not detected	10	Not detected	130
1,3-Dichloropropane			Not detected	10	Not detected	130
1,4-Dichlorobenzene			Not detected	10	Not detected	130
1-Chlorohexane			Not detected	10	Not detected	130
2,2-Dichloropropane			Not detected	10	Not detected	130
2-Chlorotoluene			Not detected	10	Not detected	130
4-Chlorotoluene			Not detected	10	Not detected	130
Benzene			Not detected	10	Not detected	130
Bromobenzene			Not detected	10	Not detected	130
Bromochloromethane			Not detected	10	Not detected	130
Bromodichloromethane			Not detected	10	Not detected	130
Bromoform			Not detected	10	Not detected	130

YORK

Client Sample ID			SB-3/5-10'		SB-4/13-15'	
York Sample ID			06050130-03		06050130-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bromomethane			Not detected	10	Not detected	130
Carbon tetrachloride			Not detected	10	Not detected	130
Chlorobenzene			Not detected	10	Not detected	130
Chloroethane			Not detected	10	Not detected	130
Chloroform			Not detected	10	Not detected	130
Chloromethane			Not detected	10	Not detected	130
cis-1,3-Dichloropropylene			Not detected	10	Not detected	130
Dibromochloromethane			Not detected	10	Not detected	130
Dibromomethane			Not detected	10	Not detected	130
Dichlorodifluoromethane			Not detected	10	Not detected	130
Ethylbenzene			Not detected	10	Not detected	130
Hexachlorobutadiene			Not detected	10	Not detected	130
Isopropylbenzene			Not detected	10	Not detected	130
Methylene chloride			Not detected	10	Not detected	130
MTBE			Not detected	10	Not detected	130
Naphthalene			Not detected	10	Not detected	130
n-Butylbenzene			Not detected	10	Not detected	130
n-Propylbenzene			Not detected	10	Not detected	130
o-Xylene			Not detected	10	Not detected	130
p- & m-Xylenes			Not detected	10	Not detected	130
p-Isopropyltoluene			Not detected	10	Not detected	130
sec-Butylbenzene			Not detected	10	Not detected	130
Styrene			Not detected	10	Not detected	130
tert-Butylbenzene			Not detected	10	Not detected	130
Tetrachloroethylene			Not detected	10	Not detected	130
Toluene			Not detected	10	Not detected	130
trans-1,3-Dichloropropylene			Not detected	10	Not detected	130
Trichloroethylene			Not detected	10	Not detected	130
Trichlorofluoromethane			Not detected	10	Not detected	130
Vinyl chloride			Not detected	10	Not detected	130
BNA-8270 List	SW846-8270C	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	17000
1,2-Dichlorobenzene			Not detected	165	Not detected	17000
1,3-Dichlorobenzene			Not detected	165	Not detected	17000
1,4-Dichlorobenzene			Not detected	165	Not detected	17000
2,4,5-Trichlorophenol			Not detected	165	Not detected	17000
2,4,6-Trichlorophenol			Not detected	165	Not detected	17000
2,4-Dichlorophenol			Not detected	165	Not detected	17000
2,4-Dimethylphenol			Not detected	165	Not detected	17000
2,4-Dinitrophenol			Not detected	165	Not detected	17000
2,4-Dinitrotoluene			Not detected	165	Not detected	17000
2,6-Dinitrotoluene			Not detected	165	Not detected	17000
2-Chloronaphthalene			Not detected	165	Not detected	17000
2-Chlorophenol			Not detected	165	Not detected	17000
2-Methylnaphthalene			Not detected	165	Not detected	17000
2-Methylphenol			Not detected	165	Not detected	17000
2-Nitroaniline			Not detected	165	Not detected	17000
2-Nitrophenol			Not detected	165	Not detected	17000
3,3'-Dichlorobenzidine			Not detected	165	Not detected	17000
3-Methylphenol			Not detected	165	Not detected	17000
3-Nitroaniline			Not detected	165	Not detected	17000

YORK

Client Sample ID			SB-3/5-10'		SB-4/13-15'	
York Sample ID			06050130-03		06050130-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
4,6-Dinitro-2-methylphenol			Not detected	165	Not detected	17000
4-Bromophenyl phenyl ether			Not detected	165	Not detected	17000
4-Chloro-3-methyl phenol			Not detected	165	Not detected	17000
4-Chloroaniline			Not detected	165	Not detected	17000
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	17000
4-Methylphenol			Not detected	165	Not detected	17000
4-Nitroaniline			Not detected	165	Not detected	17000
4-Nitrophenol			Not detected	165	Not detected	17000
Acenaphthene			Not detected	165	Not detected	17000
Acenaphthylene			Not detected	165	Not detected	17000
Aniline			Not detected	165	Not detected	17000
Anthracene			Not detected	165	Not detected	17000
Benzidine			Not detected	165	Not detected	17000
Benzo(a)anthracene			Not detected	165	Not detected	17000
Benzo(a)pyrene			Not detected	165	Not detected	17000
Benzo(b)fluoranthene			Not detected	165	Not detected	17000
Benzo(g,h,i)perylene			Not detected	165	Not detected	17000
Benzo(k)fluoranthene			Not detected	165	Not detected	17000
Benzyl alcohol			Not detected	165	Not detected	17000
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	17000
Bis(2-chloroethyl)ether			Not detected	165	Not detected	17000
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	17000
Bis(2-ethylhexyl)phthalate			190	165	140000	17000
Butyl benzyl phthalate			Not detected	165	Not detected	17000
Chrysene			Not detected	165	Not detected	17000
Dibenz(a,h)anthracene			Not detected	165	Not detected	17000
Dibenzofuran			Not detected	165	Not detected	17000
Diethylphthalate			Not detected	165	Not detected	17000
Dimethylphthalate			Not detected	165	Not detected	17000
Di-n-butylphthalate			Not detected	165	Not detected	17000
Di-n-octylphthalate			Not detected	165	Not detected	17000
Fluoranthene			Not detected	165	200000	17000
Fluorene			Not detected	165	Not detected	17000
Hexachlorobenzene			Not detected	165	Not detected	17000
Hexachlorobutadiene			Not detected	165	Not detected	17000
Hexachlorocyclopentadiene			Not detected	165	Not detected	17000
Hexachloroethane			Not detected	165	Not detected	17000
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	17000
Isophorone			Not detected	165	Not detected	17000
Naphthalene			Not detected	165	Not detected	17000
Nitrobenzene			Not detected	165	Not detected	17000
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	17000
N-Nitrosodiphenylamine			Not detected	165	Not detected	17000
Pentachlorophenol			Not detected	165	Not detected	17000
Phenanthrene			Not detected	165	Not detected	17000
Phenol			Not detected	165	Not detected	17000
Pyrene			Not detected	165	Not detected	17000
Pyridine			Not detected	165	Not detected	17000

YORK

Client Sample ID			SB-5/10-12'		SB-6/14-16'	
York Sample ID			06050130-05		06050130-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8260 list	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	25	Not detected	130
1,1,1-Trichloroethane			Not detected	25	Not detected	130
1,1,2,2-Tetrachloroethane			Not detected	25	Not detected	130
1,1,2-Trichloroethane			Not detected	25	Not detected	130
1,1-Dichloroethane			Not detected	25	Not detected	130
1,1-Dichloroethylene			Not detected	25	Not detected	130
1,1-Dichloropropylene			Not detected	25	Not detected	130
1,2,3-Trichlorobenzene			Not detected	25	Not detected	130
1,2,3-Trichloropropane			Not detected	25	Not detected	130
1,2,3-Trimethylbenzene			Not detected	25	Not detected	130
1,2,4-Trichlorobenzene			Not detected	25	Not detected	130
1,2,4-Trimethylbenzene			260	25	Not detected	130
1,2-Dibromo-3-chloropropane			Not detected	25	Not detected	130
1,2-Dibromoethane			Not detected	25	Not detected	130
1,2-Dichlorobenzene			Not detected	25	Not detected	130
1,2-Dichloroethane			Not detected	25	Not detected	130
1,2-Dichloroethylene (Total)			Not detected	25	Not detected	130
1,2-Dichloropropane			Not detected	25	Not detected	130
1,3,5-Trimethylbenzene			100	25	Not detected	130
1,3-Dichlorobenzene			Not detected	25	Not detected	130
1,3-Dichloropropane			Not detected	25	Not detected	130
1,4-Dichlorobenzene			Not detected	25	Not detected	130
1-Chlorohexane			Not detected	25	Not detected	130
2,2-Dichloropropane			Not detected	25	Not detected	130
2-Chlorotoluene			Not detected	25	Not detected	130
4-Chlorotoluene			Not detected	25	Not detected	130
Benzene			Not detected	25	Not detected	130
Bromobenzene			Not detected	25	Not detected	130
Bromochloromethane			Not detected	25	Not detected	130
Bromodichloromethane			Not detected	25	Not detected	130
Bromoform			Not detected	25	Not detected	130
Bromomethane			Not detected	25	Not detected	130
Carbon tetrachloride			Not detected	25	Not detected	130
Chlorobenzene			Not detected	25	Not detected	130
Chloroethane			Not detected	25	Not detected	130
Chloroform			Not detected	25	Not detected	130
Chloromethane			Not detected	25	Not detected	130
cis-1,3-Dichloropropylene			Not detected	25	Not detected	130
Dibromochloromethane			Not detected	25	Not detected	130
Dibromomethane			Not detected	25	Not detected	130
Dichlorodifluoromethane			Not detected	25	Not detected	130
Ethylbenzene			Not detected	25	Not detected	130
Hexachlorobutadiene			Not detected	25	Not detected	130
Isopropylbenzene			Not detected	25	Not detected	130
Methylene chloride			Not detected	25	Not detected	130
MTBE			Not detected	25	Not detected	130
Naphthalene			70	25	Not detected	130
n-Butylbenzene			56	25	Not detected	130
n-Propylbenzene			35	25	Not detected	130
o-Xylene			Not detected	25	Not detected	130

YORK

Client Sample ID			SB-5/10-12'		SB-6/14-16'	
York Sample ID			06050130-05		06050130-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
p- & m-Xylenes			45	25	Not detected	130
p-Isopropyltoluene			37	25	Not detected	130
sec-Butylbenzene			Not detected	25	Not detected	130
Styrene			Not detected	25	Not detected	130
tert-Butylbenzene			Not detected	25	Not detected	130
Tetrachloroethylene			Not detected	25	Not detected	130
Toluene			54	25	Not detected	130
trans-1,3-Dichloropropylene			Not detected	25	Not detected	130
Trichloroethylene			Not detected	25	Not detected	130
Trichlorofluoromethane			Not detected	25	Not detected	130
Vinyl chloride			Not detected	25	Not detected	130
BNA-8270 List	SW846-8270C	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	83000	Not detected	830000
1,2-Dichlorobenzene			Not detected	83000	Not detected	830000
1,3-Dichlorobenzene			Not detected	83000	Not detected	830000
1,4-Dichlorobenzene			Not detected	83000	Not detected	830000
2,4,5-Trichlorophenol			Not detected	83000	Not detected	830000
2,4,6-Trichlorophenol			Not detected	83000	Not detected	830000
2,4-Dichlorophenol			Not detected	83000	Not detected	830000
2,4-Dimethylphenol			Not detected	83000	Not detected	830000
2,4-Dinitrophenol			Not detected	83000	Not detected	830000
2,4-Dinitrotoluene			Not detected	83000	Not detected	830000
2,6-Dinitrotoluene			Not detected	83000	Not detected	830000
2-Chloronaphthalene			Not detected	83000	Not detected	830000
2-Chlorophenol			Not detected	83000	Not detected	830000
2-Methylnaphthalene			Not detected	83000	Not detected	830000
2-Methylphenol			Not detected	83000	Not detected	830000
2-Nitroaniline			Not detected	83000	Not detected	830000
2-Nitrophenol			Not detected	83000	Not detected	830000
3,3'-Dichlorobenzidine			Not detected	83000	Not detected	830000
3-Methylphenol			Not detected	83000	Not detected	830000
3-Nitroaniline			Not detected	83000	Not detected	830000
4,6-Dinitro-2-methylphenol			Not detected	83000	Not detected	830000
4-Bromophenyl phenyl ether			Not detected	83000	Not detected	830000
4-Chloro-3-methyl phenol			Not detected	83000	Not detected	830000
4-Chloroaniline			Not detected	83000	Not detected	830000
4-Chlorophenyl phenyl ether			Not detected	83000	Not detected	830000
4-Methylphenol			Not detected	83000	Not detected	830000
4-Nitroaniline			Not detected	83000	Not detected	830000
4-Nitrophenol			Not detected	83000	Not detected	830000
Acenaphthene			Not detected	83000	Not detected	830000
Acenaphthylene			Not detected	83000	Not detected	830000
Aniline			Not detected	83000	Not detected	830000
Anthracene			Not detected	83000	Not detected	830000
Benzidine			Not detected	83000	Not detected	830000
Benzo(a)anthracene			Not detected	83000	Not detected	830000
Benzo(a)pyrene			Not detected	83000	Not detected	830000
Benzo(b)fluoranthene			Not detected	83000	Not detected	830000
Benzo(g,h,i)perylene			Not detected	83000	Not detected	830000
Benzo(k)fluoranthene			Not detected	83000	Not detected	830000
Benzyl alcohol			Not detected	83000	Not detected	830000

YORK

Client Sample ID			SB-5/10-12'		SB-6/14-16'	
York Sample ID			06050130-05		06050130-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Bis(2-chloroethoxy)methane			Not detected	83000	Not detected	830000
Bis(2-chloroethyl)ether			Not detected	83000	Not detected	830000
Bis(2-chloroisopropyl)ether			Not detected	83000	Not detected	830000
Bis(2-ethylhexyl)phthalate			510000	83000	12000000	830000
Butyl benzyl phthalate			Not detected	83000	Not detected	830000
Chrysene			Not detected	83000	Not detected	830000
Dibenz(a,h)anthracene			Not detected	83000	Not detected	830000
Dibenzofuran			Not detected	83000	Not detected	830000
Diethylphthalate			Not detected	83000	Not detected	830000
Dimethylphthalate			Not detected	83000	Not detected	830000
Di-n-butylphthalate			Not detected	83000	Not detected	830000
Di-n-octylphthalate			Not detected	83000	Not detected	830000
Fluoranthene			Not detected	83000	Not detected	830000
Fluorene			Not detected	83000	Not detected	830000
Hexachlorobenzene			Not detected	83000	Not detected	830000
Hexachlorobutadiene			Not detected	83000	Not detected	830000
Hexachlorocyclopentadiene			Not detected	83000	Not detected	830000
Hexachloroethane			Not detected	83000	Not detected	830000
Indeno(1,2,3-cd)pyrene			Not detected	83000	Not detected	830000
Isophorone			Not detected	83000	Not detected	830000
Naphthalene			Not detected	83000	Not detected	830000
Nitrobenzene			Not detected	83000	Not detected	830000
N-Nitrosodi-n-propylamine			Not detected	83000	Not detected	830000
N-Nitrosodiphenylamine			Not detected	83000	Not detected	830000
Pentachlorophenol			Not detected	83000	Not detected	830000
Phenanthrene			Not detected	83000	Not detected	830000
Phenol			Not detected	83000	Not detected	830000
Pyrene			Not detected	83000	Not detected	830000
Pyridine			Not detected	83000	Not detected	830000

Client Sample ID			SB-7/11-13'	
York Sample ID			06050130-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles-8260 list	SW846-8260	ug/Kg	---	---
1,1,1,2-Tetrachloroethane			Not detected	10
1,1,1-Trichloroethane			Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10
1,1,2-Trichloroethane			Not detected	10
1,1-Dichloroethane			Not detected	10
1,1-Dichloroethylene			Not detected	10
1,1-Dichloropropylene			Not detected	10
1,2,3-Trichlorobenzene			Not detected	10
1,2,3-Trichloropropane			Not detected	10
1,2,3-Trimethylbenzene			Not detected	10
1,2,4-Trichlorobenzene			Not detected	10
1,2,4-Trimethylbenzene			Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10
1,2-Dibromoethane			Not detected	10

YORK

Client Sample ID			SB-7/11-13'	
York Sample ID			06050130-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
1,2-Dichlorobenzene			Not detected	10
1,2-Dichloroethane			Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10
1,2-Dichloropropane			Not detected	10
1,3,5-Trimethylbenzene			Not detected	10
1,3-Dichlorobenzene			Not detected	10
1,3-Dichloropropane			Not detected	10
1,4-Dichlorobenzene			Not detected	10
1-Chlorohexane			Not detected	10
2,2-Dichloropropane			Not detected	10
2-Chlorotoluene			Not detected	10
4-Chlorotoluene			Not detected	10
Benzene			Not detected	10
Bromobenzene			Not detected	10
Bromochloromethane			Not detected	10
Bromodichloromethane			Not detected	10
Bromoform			Not detected	10
Bromomethane			Not detected	10
Carbon tetrachloride			Not detected	10
Chlorobenzene			Not detected	10
Chloroethane			Not detected	10
Chloroform			Not detected	10
Chloromethane			Not detected	10
cis-1,3-Dichloropropylene			Not detected	10
Dibromochloromethane			Not detected	10
Dibromomethane			Not detected	10
Dichlorodifluoromethane			Not detected	10
Ethylbenzene			Not detected	10
Hexachlorobutadiene			Not detected	10
Isopropylbenzene			Not detected	10
Methylene chloride			Not detected	10
MTBE			Not detected	10
Naphthalene			Not detected	10
n-Butylbenzene			Not detected	10
n-Propylbenzene			Not detected	10
o-Xylene			Not detected	10
p- & m-Xylenes			Not detected	10
p-Isopropyltoluene			Not detected	10
sec-Butylbenzene			Not detected	10
Styrene			Not detected	10
tert-Butylbenzene			Not detected	10
Tetrachloroethylene			Not detected	10
Toluene			Not detected	10
trans-1,3-Dichloropropylene			Not detected	10
Trichloroethylene			Not detected	10
Trichlorofluoromethane			Not detected	10
Vinyl chloride			Not detected	10
BNA-8270 List	SW846-8270C	ug/Kg	---	---
1,2,4-Trichlorobenzene			Not detected	330
1,2-Dichlorobenzene			Not detected	330
1,3-Dichlorobenzene			Not detected	330

YORK

Client Sample ID			SB-7/11-13'	
York Sample ID			06050130-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
1,4-Dichlorobenzene			Not detected	330
2,4,5-Trichlorophenol			Not detected	330
2,4,6-Trichlorophenol			Not detected	330
2,4-Dichlorophenol			Not detected	330
2,4-Dimethylphenol			Not detected	330
2,4-Dinitrophenol			Not detected	330
2,4-Dinitrotoluene			Not detected	330
2,6-Dinitrotoluene			Not detected	330
2-Chloronaphthalene			Not detected	330
2-Chlorophenol			Not detected	330
2-Methylnaphthalene			Not detected	330
2-Methylphenol			Not detected	330
2-Nitroaniline			Not detected	330
2-Nitrophenol			Not detected	330
3,3'-Dichlorobenzidine			Not detected	330
3-Methylphenol			Not detected	330
3-Nitroaniline			Not detected	330
4,6-Dinitro-2-methylphenol			Not detected	330
4-Bromophenyl phenyl ether			Not detected	330
4-Chloro-3-methyl phenol			Not detected	330
4-Chloroaniline			Not detected	330
4-Chlorophenyl phenyl ether			Not detected	330
4-Methylphenol			Not detected	330
4-Nitroaniline			Not detected	330
4-Nitrophenol			Not detected	330
Acenaphthene			Not detected	330
Acenaphthylene			Not detected	330
Aniline			Not detected	330
Anthracene			Not detected	330
Benzidine			Not detected	330
Benzo(a)anthracene			Not detected	330
Benzo(a)pyrene			Not detected	330
Benzo(b)fluoranthene			Not detected	330
Benzo(g,h,i)perylene			Not detected	330
Benzo(k)fluoranthene			Not detected	330
Benzyl alcohol			Not detected	330
Bis(2-chloroethoxy)methane			Not detected	330
Bis(2-chloroethyl)ether			Not detected	330
Bis(2-chloroisopropyl)ether			Not detected	330
Bis(2-ethylhexyl)phthalate			6800	330
Butyl benzyl phthalate			Not detected	330
Chrysene			Not detected	330
Dibenz(a,h)anthracene			Not detected	330
Dibenzofuran			Not detected	330
Diethylphthalate			Not detected	330
Dimethylphthalate			Not detected	330
Di-n-butylphthalate			Not detected	330
Di-n-octylphthalate			Not detected	330
Fluoranthene			Not detected	330
Fluorene			Not detected	330
Hexachlorobenzene			Not detected	330

YORK

Client Sample ID			SB-7/11-13'	
York Sample ID			06050130-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Hexachlorobutadiene			Not detected	330
Hexachlorocyclopentadiene			Not detected	330
Hexachloroethane			Not detected	330
Indeno(1,2,3-cd)pyrene			Not detected	330
Isophorone			Not detected	330
Naphthalene			Not detected	330
Nitrobenzene			Not detected	330
N-Nitrosodi-n-propylamine			Not detected	330
N-Nitrosodiphenylamine			Not detected	330
Pentachlorophenol			Not detected	330
Phenanthrene			Not detected	330
Phenol			Not detected	330
Pyrene			Not detected	330
Pyridine			Not detected	330

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06050130

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ **Date:** 5/10/2006

Robert Q. Bradley
Managing Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

0605 0130

Company Name	Report To:	Invoice To:	Project ID/No.	
Advanced Site Restoration 62 William ST NY NY 10005	Steve M.	ASR	49 Dupont	Samples Collected By (Signature): [signature] Name (Printed): Anthony Acosta

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
SB-1	5-10'	5/2/06		X			8260/8270 full	1 8oz / 4oz
SB-2	10-12'			X				
SB-3	5-10'			X				
SB-4	13-15'			X				
SB-5	10-12'			X				
SB-6	14-16'			X				
SB-7	11-13'			X				

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
		[signature]	5/3/06	[signature] 5301	1000
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time
				[signature] 5/3/06 P.U.K	

Comments/Special Instructions

Turn-Around Time

____Standard ____RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 6/19/2006
Re: Client Project ID: 49 Dupont St., Bklyn
York Project No.: 06060385

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 6/19/2006
Client Project ID: 49 Dupont St., Bklyn
York Project No.: 06060385

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 06/12/06. The project was identifed as your project "49 Dupont St., Bklyn."

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			SB-8		SB-9	
York Sample ID			06060385-01		06060385-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methyl-tert-butyl ether (MTBE)			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
Total Xylenes			Not detected	10	Not detected	10

YORK

Client Sample ID			SB-8		SB-9	
York Sample ID			06060385-01		06060385-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			280	165	170	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165

YORK

Client Sample ID			SB-10		SB-11	
York Sample ID			06060385-03		06060385-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methyl-tert-butyl ether (MTBE)			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
Total Xylenes			Not detected	10	Not detected	10
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	260	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165

YORK

Client Sample ID			SB-10		SB-11	
York Sample ID			06060385-03		06060385-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165

Client Sample ID			SB-12		SB-13	
York Sample ID			06060385-05		06060385-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methyl-tert-butyl ether (MTBE)			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
Total Xylenes			Not detected	10	Not detected	10
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165

YORK

Client Sample ID			SB-12		SB-13	
York Sample ID			06060385-05		06060385-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	370	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

Notes for York Project No. 06060385

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 6/19/2006

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

06060385

Company Name	Report To:	Invoice To:	Project ID/No.	
ASR 62 Williams St NY NY. 10005	Steve	ASR	49 Dupont St Bklyn	Samples Collected By (Signature): [signature] Name (Printed): Anthony Adesso

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
SB-8	8-9'	6-9-06		Y			8260 STARS 8270 BN	1 802 / 402
SB-9	8-9'			Y				
SB-10	8'			Y				
SB-11	8'			Y				
SB-12	9-10'			Y				
SB-13	9-10'			Y				

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	[signature] Sample Relinquished by	6-12-06 Date/Time	[signature] Sample Received by	6/12/06 1130A Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	[signature] Sample Received in LAB by	6/12 4:45 Date/Time

Comments/Special Instructions

4.5°C

Turn-Around Time

____Standard ____RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 6/29/2006
Re: Client Project ID: 49 Dupont St., Bklyn
York Project No.: 06060758

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 6/29/2006
Client Project ID: 49 Dupont St., Bklyn
York Project No.: 06060758

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 06/22/06. The project was identifed as your project "49 Dupont St., Bklyn."

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			**11-12' SB-14**		**12' SB-44**	
York Sample ID			**06060758-01**		**06060758-02**	
Matrix			**SOIL**		**SOIL**	
Parameter	**Method**	**Units**	**Results**	**MDL**	**Results**	**MDL**
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			11000	500	73	50
1,3,5-Trimethylbenzene			2300	500	Not detected	50
Benzene			Not detected	500	Not detected	50
Ethylbenzene			860	500	Not detected	50
Isopropylbenzene			660	500	Not detected	50
Methyl-tert-butyl ether (MTBE)			Not detected	500	Not detected	50
Naphthalene			14000	500	170	50
n-Butylbenzene			2600	500	130	50
n-Propylbenzene			1400	500	58	50
o-Xylene			650	500	Not detected	50
p- & m-Xylenes			2300	500	62	50
p-Isopropyltoluene			990	500	Not detected	50
sec-Butylbenzene			870	500	Not detected	50
tert-Butylbenzene			Not detected	500	Not detected	50
Toluene			Not detected	500	Not detected	50
Total Xylenes			2950	500	62	50
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	4100	Not detected	830000

YORK

Client Sample ID			11-12' SB-14		12' SB-44	
York Sample ID			06060758-01		06060758-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,2-Dichlorobenzene			Not detected	4100	Not detected	830000
1,3-Dichlorobenzene			Not detected	4100	Not detected	830000
1,4-Dichlorobenzene			Not detected	4100	Not detected	830000
2,4-Dinitrotoluene			Not detected	4100	Not detected	830000
2,6-Dinitrotoluene			Not detected	4100	Not detected	830000
2-Chloronaphthalene			Not detected	4100	Not detected	830000
2-Methylnaphthalene			21000	4100	Not detected	830000
2-Nitroaniline			Not detected	4100	Not detected	830000
3,3'-Dichlorobenzidine			Not detected	4100	Not detected	830000
3-Nitroaniline			Not detected	4100	Not detected	830000
4-Bromophenyl phenyl ether			Not detected	4100	Not detected	830000
4-Chloroaniline			Not detected	4100	Not detected	830000
4-Chlorophenyl phenyl ether			Not detected	4100	Not detected	830000
4-Nitroaniline			Not detected	4100	Not detected	830000
Acenaphthene			Not detected	4100	Not detected	830000
Acenaphthylene			Not detected	4100	Not detected	830000
Anthracene			Not detected	4100	Not detected	830000
Benzo(a)anthracene			Not detected	4100	Not detected	830000
Benzo(a)pyrene			Not detected	4100	Not detected	830000
Benzo(b)fluoranthene			Not detected	4100	Not detected	830000
Benzo(g,h,i)perylene			Not detected	4100	Not detected	830000
Benzo(k)fluoranthene			Not detected	4100	Not detected	830000
Bis(2-chloroethoxy)methane			Not detected	4100	Not detected	830000
Bis(2-chloroethyl)ether			Not detected	4100	Not detected	830000
Bis(2-chloroisopropyl)ether			Not detected	4100	Not detected	830000
Bis(2-ethylhexyl)phthalate			Not detected	4100	20000000	830000
Butyl benzyl phthalate			Not detected	4100	Not detected	830000
Carbazole			Not detected	4100	Not detected	830000
Chrysene			Not detected	4100	Not detected	830000
Dibenzo(a,h)anthracene			Not detected	4100	Not detected	830000
Dibenzofuran			Not detected	4100	Not detected	830000
Diethylphthalate			Not detected	4100	Not detected	830000
Dimethylphthalate			Not detected	4100	Not detected	830000
Di-n-butylphthalate			Not detected	4100	Not detected	830000
Di-n-octylphthalate			Not detected	4100	Not detected	830000
Fluoranthene			Not detected	4100	Not detected	830000
Fluorene			Not detected	4100	Not detected	830000
Hexachlorobenzene			Not detected	4100	Not detected	830000
Hexachlorobutadiene			Not detected	4100	Not detected	830000
Hexachlorocyclopentadiene			Not detected	4100	Not detected	830000
Hexachloroethane			Not detected	4100	Not detected	830000
Indeno(1,2,3-cd)pyrene			Not detected	4100	Not detected	830000
Isophorone			Not detected	4100	Not detected	830000
Naphthalene			4400	4100	Not detected	830000
Nitrobenzene			Not detected	4100	Not detected	830000
N-Nitrosodi-n-propylamine			Not detected	4100	Not detected	830000
N-Nitrosodiphenylamine			Not detected	4100	Not detected	830000
Phenanthrene			7500	4100	Not detected	830000
Pyrene			Not detected	4100	Not detected	830000

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

Report Date: 6/29/2006
Client Project ID: 49 Dupont St., Bklyn
York Project No.: 06060758

Notes for York Project No. 06060758

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 6/29/2006

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

0601007758

Company Name	Report To:	Invoice To:	Project ID/No.	
ASR 62 William St NY NY 10005	Steve M.	ASR	49 DuPont St Bklyn	Samples Collected By (Signature): [signature] Name (Printed): Anthony Adesso

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
~~SB 14~~	11-12' SB-14	6/20/06		X			8270 BN	8 oz
~~SB 14~~	11-12' SB-14	6/20/06		X			8260 STARS	4 oz
~~SB 44~~	12' SB-44	6/21/06		X			8270 BN	8 oz
~~SB 44~~	12' SB-44	6/21/06		X			8260 STARS	4 oz

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	[signature] Sample Relinquished by	6/21/06 Date/Time	[signature] Sample Received by	6/22/06 1040A Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	[signature] Sample Received in LAB by	6/22 4P 4:5 Date/Time

Comments/Special Instructions

Turn-Around Time

____Standard ____RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 6/21/2006
Re: Client Project ID: 49 Dupont St.
York Project No.: 06060481 Revised

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 6/21/2006
Client Project ID: 49 Dupont St.
York Project No.: 06060481 R

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 06/14/06. The project was identifed as your project "49 Dupont St. ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			SB-15		SB-16	
York Sample ID			06060481-01		06060481-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165

YORK

Client Sample ID			SB-15		SB-16	
York Sample ID			06060481-01		06060481-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	300	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165

Client Sample ID			SB-17		SB-18	
York Sample ID			06060481-03		06060481-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			290	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165

YORK

Client Sample ID			SB-17		SB-18	
York Sample ID			06060481-03		06060481-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			580	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			390	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			340	165	Not detected	165
Fluorene			270	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			1500	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			710	165	Not detected	165
Pyrene			500	165	Not detected	165

Client Sample ID			SB-19		SB-20	
York Sample ID			06060481-05		06060481-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165

YORK

Client Sample ID			SB-19		SB-20	
York Sample ID			06060481-05		06060481-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165

YORK

Client Sample ID			SB-21		SB-24	
York Sample ID			06060481-07		06060481-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	1700
1,2-Dichlorobenzene			Not detected	165	Not detected	1700
1,3-Dichlorobenzene			Not detected	165	Not detected	1700
1,4-Dichlorobenzene			Not detected	165	Not detected	1700
2,4-Dinitrotoluene			Not detected	165	Not detected	1700
2,6-Dinitrotoluene			Not detected	165	Not detected	1700
2-Chloronaphthalene			Not detected	165	Not detected	1700
2-Methylnaphthalene			Not detected	165	Not detected	1700
2-Nitroaniline			Not detected	165	Not detected	1700
3,3'-Dichlorobenzidine			Not detected	165	Not detected	1700
3-Nitroaniline			Not detected	165	Not detected	1700
4-Bromophenyl phenyl ether			Not detected	165	Not detected	1700
4-Chloroaniline			Not detected	165	Not detected	1700
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	1700
4-Nitroaniline			Not detected	165	Not detected	1700
Acenaphthene			Not detected	165	Not detected	1700
Acenaphthylene			Not detected	165	Not detected	1700
Anthracene			Not detected	165	Not detected	1700
Benzo(a)anthracene			Not detected	165	Not detected	1700
Benzo(a)pyrene			Not detected	165	Not detected	1700
Benzo(b)fluoranthene			Not detected	165	Not detected	1700
Benzo(g,h,i)perylene			Not detected	165	Not detected	1700
Benzo(k)fluoranthene			Not detected	165	Not detected	1700
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	1700
Bis(2-chloroethyl)ether			Not detected	165	Not detected	1700
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	1700
Bis(2-ethylhexyl)phthalate			Not detected	165	14000	1700
Butyl benzyl phthalate			Not detected	165	Not detected	1700
Carbazole			Not detected	165	Not detected	1700
Chrysene			Not detected	165	Not detected	1700
Dibenzo(a,h)anthracene			Not detected	165	Not detected	1700
Dibenzofuran			Not detected	165	Not detected	1700
Diethylphthalate			Not detected	165	Not detected	1700
Dimethylphthalate			Not detected	165	Not detected	1700
Di-n-butylphthalate			Not detected	165	Not detected	1700
Di-n-octylphthalate			Not detected	165	16000	1700
Fluoranthene			Not detected	165	Not detected	1700
Fluorene			Not detected	165	Not detected	1700
Hexachlorobenzene			Not detected	165	Not detected	1700
Hexachlorobutadiene			Not detected	165	Not detected	1700
Hexachlorocyclopentadiene			Not detected	165	Not detected	1700
Hexachloroethane			Not detected	165	Not detected	1700
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	1700
Isophorone			Not detected	165	Not detected	1700
Naphthalene			Not detected	165	Not detected	1700
Nitrobenzene			Not detected	165	Not detected	1700
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	1700
N-Nitrosodiphenylamine			Not detected	165	Not detected	1700
Phenanthrene			Not detected	165	Not detected	1700
Pyrene			Not detected	165	Not detected	1700

YORK

Report Date: 6/21/2006
Client Project ID: 49 Dupont St.
York Project No.: 06060481 R

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06060481 R

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: For Robert Q. Bradley
Managing Director

Date: 6/21/2006

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

06060481

Company Name	Report To:	Invoice To:	Project ID/No.	
ADVANCED SITE RESTORATION 62 WILLIAM ST N.Y N.Y 10005	STEVE MULLER	A SR	49 DUPONT ST BROOKLYN NY	Efram Vazquez Samples Collected By (Signature) Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	SB-15	6/13/06		X			EPA 8260 & 8270 STARS	1(8oz) 1(4oz)
	SB-16							
	SB-17							
	SB-18							
	SB-19							
	SB-20							
	SB-21							
	SB-24							

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	6/14/06 Date/Time	Sample Received by	6/14/06 11:00 A Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time

Comments/Special Instructions 4.2C

Turn-Around Time
X Standard ____ RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 6/23/2006
Re: Client Project ID: 49 Dupont St., Bklyn, NY
York Project No.: 06060587

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 6/23/2006
Client Project ID: 49 Dupont St., Bklyn, NY
York Project No.: 06060587

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 06/16/06. The project was identifed as your project "49 Dupont St., Bklyn, NY."

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			SB-23		SB-46	
York Sample ID			06060587-01		06060587-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methyl-tert-butyl ether (MTBE)			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
Total Xylenes			Not detected	10	Not detected	10

YORK

Client Sample ID			SB-23		SB-46	
York Sample ID			06060587-01		06060587-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			380	165	340	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			220	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			1600	165	330	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165

YORK

Client Sample ID			SB-56		SB-57	
York Sample ID			06060587-03		06060587-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	130
1,3,5-Trimethylbenzene			Not detected	10	Not detected	130
Benzene			Not detected	10	Not detected	130
Ethylbenzene			Not detected	10	Not detected	130
Isopropylbenzene			Not detected	10	Not detected	130
Methyl-tert-butyl ether (MTBE)			Not detected	10	Not detected	130
Naphthalene			Not detected	10	Not detected	130
n-Butylbenzene			Not detected	10	Not detected	130
n-Propylbenzene			Not detected	10	Not detected	130
o-Xylene			Not detected	10	Not detected	130
p- & m-Xylenes			Not detected	10	Not detected	130
p-Isopropyltoluene			Not detected	10	Not detected	130
sec-Butylbenzene			Not detected	10	Not detected	130
tert-Butylbenzene			Not detected	10	Not detected	130
Toluene			Not detected	10	Not detected	130
Total Xylenes			Not detected	10	Not detected	130
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	4100
1,2-Dichlorobenzene			Not detected	165	Not detected	4100
1,3-Dichlorobenzene			Not detected	165	Not detected	4100
1,4-Dichlorobenzene			Not detected	165	Not detected	4100
2,4-Dinitrotoluene			Not detected	165	Not detected	4100
2,6-Dinitrotoluene			Not detected	165	Not detected	4100
2-Chloronaphthalene			Not detected	165	Not detected	4100
2-Methylnaphthalene			Not detected	165	Not detected	4100
2-Nitroaniline			Not detected	165	Not detected	4100
3,3'-Dichlorobenzidine			Not detected	165	Not detected	4100
3-Nitroaniline			Not detected	165	Not detected	4100
4-Bromophenyl phenyl ether			Not detected	165	Not detected	4100
4-Chloroaniline			Not detected	165	Not detected	4100
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	4100
4-Nitroaniline			Not detected	165	Not detected	4100
Acenaphthene			Not detected	165	Not detected	4100
Acenaphthylene			Not detected	165	Not detected	4100
Anthracene			Not detected	165	Not detected	4100
Benzo(a)anthracene			Not detected	165	Not detected	4100
Benzo(a)pyrene			Not detected	165	Not detected	4100
Benzo(b)fluoranthene			Not detected	165	Not detected	4100
Benzo(g,h,i)perylene			Not detected	165	Not detected	4100
Benzo(k)fluoranthene			Not detected	165	Not detected	4100
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	4100
Bis(2-chloroethyl)ether			Not detected	165	Not detected	4100
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	4100
Bis(2-ethylhexyl)phthalate			Not detected	165	52000	4100
Butyl benzyl phthalate			Not detected	165	Not detected	4100
Carbazole			Not detected	165	Not detected	4100
Chrysene			Not detected	165	Not detected	4100
Dibenzo(a,h)anthracene			Not detected	165	Not detected	4100
Dibenzofuran			Not detected	165	Not detected	4100

YORK

Client Sample ID			SB-56		SB-57	
York Sample ID			06060587-03		06060587-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Diethylphthalate			Not detected	165	Not detected	4100
Dimethylphthalate			Not detected	165	Not detected	4100
Di-n-butylphthalate			Not detected	165	Not detected	4100
Di-n-octylphthalate			Not detected	165	6800	4100
Fluoranthene			Not detected	165	Not detected	4100
Fluorene			Not detected	165	Not detected	4100
Hexachlorobenzene			Not detected	165	Not detected	4100
Hexachlorobutadiene			Not detected	165	Not detected	4100
Hexachlorocyclopentadiene			Not detected	165	Not detected	4100
Hexachloroethane			Not detected	165	Not detected	4100
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	4100
Isophorone			Not detected	165	Not detected	4100
Naphthalene			Not detected	165	Not detected	4100
Nitrobenzene			Not detected	165	Not detected	4100
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	4100
N-Nitrosodiphenylamine			Not detected	165	Not detected	4100
Phenanthrene			Not detected	165	Not detected	4100
Pyrene			Not detected	165	Not detected	4100

Client Sample ID			SB-58		SB-59	
York Sample ID			06060587-05		06060587-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
Benzene			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methyl-tert-butyl ether (MTBE)			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10
Total Xylenes			Not detected	10	Not detected	10
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165

YORK

Client Sample ID			SB-58		SB-59	
York Sample ID			06060587-05		06060587-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			320	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

Notes for York Project No. 06060587

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: for Robert Q. Bradley
Managing Director

Date: 6/23/2006

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

06060587

Company Name	Report To:	Invoice To:	Project ID/No.	
A S R 62 WILLIAM ST NY NY 10005	STEVE MULLER	ASR	49 DUPONT ST BKLYN N.Y.	E. Vazquez Samples Collected By (Signature) E. VAZQUEZ Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	SB-23	6/14/06		X			EPA ~~8260~~ 8260C & 8270 STARS	1(4oz) 1(8oz)
	SB-46							
	SB-56							
	SB-57							
	SB-58							
	SB-59							

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	E. Vazquez Sample Relinquished by	6/16/06 Date/Time	61606 Sample Received by	1145A Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	6/16 4:45 Date/Time

Comments/Special Instructions

42 C

Turn-Around Time

X Standard ____ RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 6/26/2006
Re: Client Project ID: 49 Dupont St.
York Project No.: 06060636

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 6/26/2006
Client Project ID: 49 Dupont St.
York Project No.: 06060636

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 06/19/06. The project was identifed as your project "49 Dupont St. ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			SB-32		SB-34	
York Sample ID			06060636-01		06060636-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	74	10
1,3,5-Trimethylbenzene			Not detected	10	30	10
Benzene			Not detected	10	Not detected	10
Ethylbenzene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methyl-tert-butyl ether (MTBE)			Not detected	10	Not detected	10
Naphthalene			Not detected	10	28	10
n-Butylbenzene			Not detected	10	25	10
n-Propylbenzene			Not detected	10	10	10
o-Xylene			Not detected	10	Not detected	10
p- & m-Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	11	10
sec-Butylbenzene			Not detected	10	12	10
tert-Butylbenzene			Not detected	10	Not detected	10
Toluene			Not detected	10	27	10
Total Xylenes			Not detected	10	Not detected	10

YORK

Client Sample ID			SB-32		SB-34	
York Sample ID			06060636-01		06060636-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	17000
1,2-Dichlorobenzene			Not detected	165	Not detected	17000
1,3-Dichlorobenzene			Not detected	165	Not detected	17000
1,4-Dichlorobenzene			Not detected	165	Not detected	17000
2,4-Dinitrotoluene			Not detected	165	Not detected	17000
2,6-Dinitrotoluene			Not detected	165	Not detected	17000
2-Chloronaphthalene			Not detected	165	Not detected	17000
2-Methylnaphthalene			Not detected	165	Not detected	17000
2-Nitroaniline			Not detected	165	Not detected	17000
3,3'-Dichlorobenzidine			Not detected	165	Not detected	17000
3-Nitroaniline			Not detected	165	Not detected	17000
4-Bromophenyl phenyl ether			Not detected	165	Not detected	17000
4-Chloroaniline			Not detected	165	Not detected	17000
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	17000
4-Nitroaniline			Not detected	165	Not detected	17000
Acenaphthene			Not detected	165	Not detected	17000
Acenaphthylene			Not detected	165	Not detected	17000
Anthracene			Not detected	165	Not detected	17000
Benzo(a)anthracene			Not detected	165	Not detected	17000
Benzo(a)pyrene			Not detected	165	Not detected	17000
Benzo(b)fluoranthene			Not detected	165	Not detected	17000
Benzo(g,h,i)perylene			Not detected	165	Not detected	17000
Benzo(k)fluoranthene			Not detected	165	Not detected	17000
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	17000
Bis(2-chloroethyl)ether			Not detected	165	Not detected	17000
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	17000
Bis(2-ethylhexyl)phthalate			1500	165	610000	17000
Butyl benzyl phthalate			Not detected	165	Not detected	17000
Carbazole			Not detected	165	Not detected	17000
Chrysene			Not detected	165	Not detected	17000
Dibenzo(a,h)anthracene			Not detected	165	Not detected	17000
Dibenzofuran			Not detected	165	Not detected	17000
Diethylphthalate			Not detected	165	Not detected	17000
Dimethylphthalate			Not detected	165	Not detected	17000
Di-n-butylphthalate			Not detected	165	Not detected	17000
Di-n-octylphthalate			Not detected	165	41000	17000
Fluoranthene			Not detected	165	Not detected	17000
Fluorene			Not detected	165	Not detected	17000
Hexachlorobenzene			Not detected	165	Not detected	17000
Hexachlorobutadiene			Not detected	165	Not detected	17000
Hexachlorocyclopentadiene			Not detected	165	Not detected	17000
Hexachloroethane			Not detected	165	Not detected	17000
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	17000
Isophorone			Not detected	165	Not detected	17000
Naphthalene			Not detected	165	Not detected	17000
Nitrobenzene			Not detected	165	Not detected	17000
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	17000
N-Nitrosodiphenylamine			Not detected	165	Not detected	17000
Phenanthrene			Not detected	165	Not detected	17000
Pyrene			Not detected	165	Not detected	17000

YORK

Client Sample ID			SB-36		SB-37	
York Sample ID			06060636-03		06060636-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	130
1,3,5-Trimethylbenzene			Not detected	10	Not detected	130
Benzene			Not detected	10	Not detected	130
Ethylbenzene			Not detected	10	Not detected	130
Isopropylbenzene			Not detected	10	Not detected	130
Methyl-tert-butyl ether (MTBE)			Not detected	10	Not detected	130
Naphthalene			Not detected	10	Not detected	130
n-Butylbenzene			Not detected	10	Not detected	130
n-Propylbenzene			Not detected	10	Not detected	130
o-Xylene			Not detected	10	Not detected	130
p- & m-Xylenes			Not detected	10	Not detected	130
p-Isopropyltoluene			Not detected	10	Not detected	130
sec-Butylbenzene			Not detected	10	Not detected	130
tert-Butylbenzene			Not detected	10	Not detected	130
Toluene			Not detected	10	Not detected	130
Total Xylenes			Not detected	10	Not detected	130
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	4100
1,2-Dichlorobenzene			Not detected	165	Not detected	4100
1,3-Dichlorobenzene			Not detected	165	Not detected	4100
1,4-Dichlorobenzene			Not detected	165	Not detected	4100
2,4-Dinitrotoluene			Not detected	165	Not detected	4100
2,6-Dinitrotoluene			Not detected	165	Not detected	4100
2-Chloronaphthalene			Not detected	165	Not detected	4100
2-Methylnaphthalene			Not detected	165	Not detected	4100
2-Nitroaniline			Not detected	165	Not detected	4100
3,3'-Dichlorobenzidine			Not detected	165	Not detected	4100
3-Nitroaniline			Not detected	165	Not detected	4100
4-Bromophenyl phenyl ether			Not detected	165	Not detected	4100
4-Chloroaniline			Not detected	165	Not detected	4100
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	4100
4-Nitroaniline			Not detected	165	Not detected	4100
Acenaphthene			Not detected	165	Not detected	4100
Acenaphthylene			Not detected	165	Not detected	4100
Anthracene			Not detected	165	Not detected	4100
Benzo(a)anthracene			Not detected	165	Not detected	4100
Benzo(a)pyrene			Not detected	165	Not detected	4100
Benzo(b)fluoranthene			Not detected	165	Not detected	4100
Benzo(g,h,i)perylene			Not detected	165	Not detected	4100
Benzo(k)fluoranthene			Not detected	165	Not detected	4100
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	4100
Bis(2-chloroethyl)ether			Not detected	165	Not detected	4100
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	4100
Bis(2-ethylhexyl)phthalate			Not detected	165	100000	4100
Butyl benzyl phthalate			Not detected	165	Not detected	4100
Carbazole			Not detected	165	Not detected	4100
Chrysene			Not detected	165	Not detected	4100
Dibenzo(a,h)anthracene			Not detected	165	Not detected	4100

YORK

Client Sample ID			SB-36		SB-37	
York Sample ID			06060636-03		06060636-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Dibenzofuran			Not detected	165	Not detected	4100
Diethylphthalate			Not detected	165	Not detected	4100
Dimethylphthalate			Not detected	165	Not detected	4100
Di-n-butylphthalate			Not detected	165	Not detected	4100
Di-n-octylphthalate			1200	165	8300	4100
Fluoranthene			Not detected	165	Not detected	4100
Fluorene			Not detected	165	Not detected	4100
Hexachlorobenzene			Not detected	165	Not detected	4100
Hexachlorobutadiene			Not detected	165	Not detected	4100
Hexachlorocyclopentadiene			Not detected	165	Not detected	4100
Hexachloroethane			Not detected	165	Not detected	4100
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	4100
Isophorone			Not detected	165	Not detected	4100
Naphthalene			Not detected	165	Not detected	4100
Nitrobenzene			Not detected	165	Not detected	4100
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	4100
N-Nitrosodiphenylamine			Not detected	165	Not detected	4100
Phenanthrene			Not detected	165	Not detected	4100
Pyrene			Not detected	165	Not detected	4100

Client Sample ID			SB-38A		SB-38B	
York Sample ID			06060636-05		06060636-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	130	Not detected	25
1,3,5-Trimethylbenzene			Not detected	130	Not detected	25
Benzene			Not detected	130	Not detected	25
Ethylbenzene			Not detected	130	Not detected	25
Isopropylbenzene			Not detected	130	Not detected	25
Methyl-tert-butyl ether (MTBE)			Not detected	130	Not detected	25
Naphthalene			Not detected	130	Not detected	25
n-Butylbenzene			Not detected	130	Not detected	25
n-Propylbenzene			Not detected	130	Not detected	25
o-Xylene			Not detected	130	Not detected	25
p- & m-Xylenes			Not detected	130	Not detected	25
p-Isopropyltoluene			Not detected	130	Not detected	25
sec-Butylbenzene			Not detected	130	Not detected	25
tert-Butylbenzene			Not detected	130	Not detected	25
Toluene			Not detected	130	Not detected	25
Total Xylenes			Not detected	130	Not detected	25
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165

YORK

Client Sample ID			SB-38A		SB-38B	
York Sample ID			06060636-05		06060636-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			3500	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	1000	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165

YORK

Client Sample ID			SB-39	
York Sample ID			06060636-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---
1,2,4-Trimethylbenzene			Not detected	130
1,3,5-Trimethylbenzene			Not detected	130
Benzene			Not detected	130
Ethylbenzene			Not detected	130
Isopropylbenzene			190	130
Methyl-tert-butyl ether (MTBE)			Not detected	130
Naphthalene			Not detected	130
n-Butylbenzene			930	130
n-Propylbenzene			740	130
o-Xylene			Not detected	130
p- & m-Xylenes			Not detected	130
p-Isopropyltoluene			210	130
sec-Butylbenzene			400	130
tert-Butylbenzene			Not detected	130
Toluene			Not detected	130
Total Xylenes			Not detected	130
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---
1,2,4-Trichlorobenzene			Not detected	8300
1,2-Dichlorobenzene			Not detected	8300
1,3-Dichlorobenzene			Not detected	8300
1,4-Dichlorobenzene			Not detected	8300
2,4-Dinitrotoluene			Not detected	8300
2,6-Dinitrotoluene			Not detected	8300
2-Chloronaphthalene			Not detected	8300
2-Methylnaphthalene			8600	8300
2-Nitroaniline			Not detected	8300
3,3'-Dichlorobenzidine			Not detected	8300
3-Nitroaniline			Not detected	8300
4-Bromophenyl phenyl ether			Not detected	8300
4-Chloroaniline			Not detected	8300
4-Chlorophenyl phenyl ether			Not detected	8300
4-Nitroaniline			Not detected	8300
Acenaphthene			13000	8300
Acenaphthylene			Not detected	8300
Anthracene			25000	8300
Benzo(a)anthracene			44000	8300
Benzo(a)pyrene			33000	8300
Benzo(b)fluoranthene			26000	8300
Benzo(g,h,i)perylene			8600	8300
Benzo(k)fluoranthene			32000	8300
Bis(2-chloroethoxy)methane			Not detected	8300
Bis(2-chloroethyl)ether			Not detected	8300
Bis(2-chloroisopropyl)ether			Not detected	8300
Bis(2-ethylhexyl)phthalate			Not detected	8300
Butyl benzyl phthalate			Not detected	8300
Carbazole			Not detected	8300
Chrysene			48000	8300
Dibenzo(a,h)anthracene			Not detected	8300

YORK

Client Sample ID			SB-39	
York Sample ID			06060636-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Dibenzofuran			10000	8300
Diethylphthalate			Not detected	8300
Dimethylphthalate			Not detected	8300
Di-n-butylphthalate			Not detected	8300
Di-n-octylphthalate			Not detected	8300
Fluoranthene			88000	8300
Fluorene			17000	8300
Hexachlorobenzene			Not detected	8300
Hexachlorobutadiene			Not detected	8300
Hexachlorocyclopentadiene			Not detected	8300
Hexachloroethane			Not detected	8300
Indeno(1,2,3-cd)pyrene			10000	8300
Isophorone			Not detected	8300
Naphthalene			12000	8300
Nitrobenzene			Not detected	8300
N-Nitrosodi-n-propylamine			Not detected	8300
N-Nitrosodiphenylamine			Not detected	8300
Phenanthrene			86000	8300
Pyrene			80000	8300

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06060636

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 6/26/2006

YORK

YORK
ANALYTICAL LABORATORIES, INC.

Field Chain-of-Custody Record

06060636

120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Company Name	Report To:	Invoice To:	Project ID/No.	
ASR 62 WILLIAMS ST N.Y N.Y 10005	STEVE MULLER	ASR	49 DUPONT ST BKLYN N.Y	E. Vazquez Samples Collected By (Signature) E. VAZQUEZ Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	SB-32	6-16-06		X			EPA 8260 + 8270 STARS	1(4oz) 1(8oz)
	SB-34							
	SB-36							
	SB-37							
	SB-38A							
	SB-38B							
	SB-39							

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by: Suhanda	6/9/06 1130A
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by: Celia	6/9 5:00 Date/Time

4.2°C

Turn-Around Time
✓ Standard ____ RUSH(define)_____

Comments/Special Instructions

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 8/1/2006
Re: Client Project ID: 49 Dupont St., Brooklyn, NY
York Project No.: 06070643

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 8/1/2006
Client Project ID: 49 Dupont St., Brooklyn, NY
York Project No.: 06070643

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/24/06. The project was identifed as your project "49 Dupont St., Brooklyn, NY ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-5 4-9'		MW-6 5-10'	
York Sample ID			06070643-01		06070643-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	25
1,3,5-Trimethylbenzene			Not detected	10	Not detected	25
Benzene			Not detected	2.0	Not detected	5.0
Ethylbenzene			Not detected	10	Not detected	25
Isopropylbenzene			Not detected	10	Not detected	25
Methyl-tert-butyl ether			Not detected	10	Not detected	25
Naphthalene			Not detected	10	Not detected	25
n-Butylbenzene			Not detected	10	Not detected	25
n-Propylbenzene			Not detected	10	Not detected	25
o-Xylene			Not detected	10	Not detected	25
p- & m- Xylenes			Not detected	10	Not detected	25
p-Isopropyltoluene			Not detected	10	Not detected	25
sec-Butylbenzene			Not detected	10	31	25
tert-Butylbenzene			Not detected	10	Not detected	25
Toluene			Not detected	10	Not detected	25

YORK

Client Sample ID			MW-5 4-9'		MW-6 5-10'	
York Sample ID			06070643-01		06070643-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	830000
1,2-Dichlorobenzene			Not detected	165	Not detected	830000
1,3-Dichlorobenzene			Not detected	165	Not detected	830000
1,4-Dichlorobenzene			Not detected	165	Not detected	830000
2,4-Dinitrotoluene			Not detected	165	Not detected	830000
2,6-Dinitrotoluene			Not detected	165	Not detected	830000
2-Chloronaphthalene			Not detected	165	Not detected	830000
2-Methylnaphthalene			Not detected	165	Not detected	830000
2-Nitroaniline			Not detected	165	Not detected	830000
3,3'-Dichlorobenzidine			Not detected	165	Not detected	830000
3-Nitroaniline			Not detected	165	Not detected	830000
4-Bromophenyl phenyl ether			Not detected	165	Not detected	830000
4-Chloroaniline			Not detected	165	Not detected	830000
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	830000
4-Nitroaniline			Not detected	165	Not detected	830000
Acenaphthene			Not detected	165	Not detected	830000
Acenaphthylene			Not detected	165	Not detected	830000
Anthracene			Not detected	165	Not detected	830000
Benzo(a)anthracene			Not detected	165	Not detected	830000
Benzo(a)pyrene			Not detected	165	Not detected	830000
Benzo(b)fluoranthene			Not detected	165	Not detected	830000
Benzo(g,h,i)perylene			Not detected	165	Not detected	830000
Benzo(k)fluoranthene			Not detected	165	Not detected	830000
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	830000
Bis(2-chloroethyl)ether			Not detected	165	Not detected	830000
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	830000
Bis(2-ethylhexyl)phthalate			Not detected	165	9500000	830000
Butyl benzyl phthalate			Not detected	165	Not detected	830000
Carbazole			Not detected	165	Not detected	830000
Chrysene			Not detected	165	Not detected	830000
Dibenzo(a,h)anthracene			Not detected	165	Not detected	830000
Dibenzofuran			Not detected	165	Not detected	830000
Diethylphthalate			Not detected	165	Not detected	830000
Dimethylphthalate			Not detected	165	Not detected	830000
Di-n-butylphthalate			Not detected	165	Not detected	830000
Di-n-octylphthalate			Not detected	165	Not detected	830000
Fluoranthene			Not detected	165	Not detected	830000
Fluorene			Not detected	165	Not detected	830000
Hexachlorobenzene			Not detected	165	Not detected	830000
Hexachlorobutadiene			Not detected	165	Not detected	830000
Hexachlorocyclopentadiene			Not detected	165	Not detected	830000
Hexachloroethane			Not detected	165	Not detected	830000
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	830000

YORK

Client Sample ID			MW-5 4-9'		MW-6 5-10'	
York Sample ID			06070643-01		06070643-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Isophorone			Not detected	165	Not detected	830000
Naphthalene			Not detected	165	Not detected	830000
Nitrobenzene			Not detected	165	Not detected	830000
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	830000
N-Nitrosodiphenylamine			Not detected	165	Not detected	830000
Phenanthrene			Not detected	165	Not detected	830000
Pyrene			Not detected	165	Not detected	830000

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06070643

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 8/1/2006

YORK

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ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

06070643

Field Chain-of-Custody Record

Page ___ of ___

Company Name	Report To:	Invoice To:	Project ID/No.	
ASR 62 William ST NY NY 10005	ASR Steve Miller	ASR	49 Dupont ST. BKLYN NY	Anthony Iocesso Samples Collected By (Signature) Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	MW-5 4'-9'	7/20/06		X			8260 STARS 8270 BN	1 8oz 1 4oz
	MW-6 5'-10'	7/20/06		X			8260 STARS 8270 BN	1 8oz 1 4oz

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	7/21/06 12:00 AM Date/Time	Sample Received by	7/21/06 Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	7/24 4:00 Date/Time

Comments/Special Instructions

4.2°C

Turn-Around Time

___Standard ___RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 8/1/2006
Re: Client Project ID: 49 Dupont St., Brooklyn, NY
York Project No.: 06070644

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 8/1/2006
Client Project ID: 49 Dupont St., Brooklyn, NY
York Project No.: 06070644

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/24/06. The project was identifed as your project "49 Dupont St., Brooklyn, NY ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-5 10-15'		MW-6 10-15'	
York Sample ID			06070644-01		06070644-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			420	130	540	130
1,3,5-Trimethylbenzene			Not detected	130	220	130
Benzene			Not detected	25	Not detected	25
Ethylbenzene			Not detected	130	Not detected	130
Isopropylbenzene			Not detected	130	Not detected	130
Methyl-tert-butyl ether			Not detected	130	Not detected	130
Naphthalene			220	130	Not detected	130
n-Butylbenzene			Not detected	130	Not detected	130
n-Propylbenzene			Not detected	130	Not detected	130
o-Xylene			Not detected	130	Not detected	130
p- & m- Xylenes			Not detected	130	Not detected	130
p-Isopropyltoluene			Not detected	130	Not detected	130
sec-Butylbenzene			Not detected	130	Not detected	130
tert-Butylbenzene			Not detected	130	Not detected	130
Toluene			Not detected	130	Not detected	130

YORK

Client Sample ID			MW-5 10-15'		MW-6 10-15'	
York Sample ID			06070644-01		06070644-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	410000	Not detected	83000
1,2-Dichlorobenzene			Not detected	410000	Not detected	83000
1,3-Dichlorobenzene			Not detected	410000	Not detected	83000
1,4-Dichlorobenzene			Not detected	410000	Not detected	83000
2,4-Dinitrotoluene			Not detected	410000	Not detected	83000
2,6-Dinitrotoluene			Not detected	410000	Not detected	83000
2-Chloronaphthalene			Not detected	410000	Not detected	83000
2-Methylnaphthalene			Not detected	410000	Not detected	83000
2-Nitroaniline			Not detected	410000	Not detected	83000
3,3'-Dichlorobenzidine			Not detected	410000	Not detected	83000
3-Nitroaniline			Not detected	410000	Not detected	83000
4-Bromophenyl phenyl ether			Not detected	410000	Not detected	83000
4-Chloroaniline			Not detected	410000	Not detected	83000
4-Chlorophenyl phenyl ether			Not detected	410000	Not detected	83000
4-Nitroaniline			Not detected	410000	Not detected	83000
Acenaphthene			Not detected	410000	Not detected	83000
Acenaphthylene			Not detected	410000	Not detected	83000
Anthracene			Not detected	410000	Not detected	83000
Benzo(a)anthracene			Not detected	410000	Not detected	83000
Benzo(a)pyrene			Not detected	410000	Not detected	83000
Benzo(b)fluoranthene			Not detected	410000	Not detected	83000
Benzo(g,h,i)perylene			Not detected	410000	Not detected	83000
Benzo(k)fluoranthene			Not detected	410000	Not detected	83000
Bis(2-chloroethoxy)methane			Not detected	410000	Not detected	83000
Bis(2-chloroethyl)ether			Not detected	410000	Not detected	83000
Bis(2-chloroisopropyl)ether			Not detected	410000	Not detected	83000
Bis(2-ethylhexyl)phthalate			6700000	410000	1900000	83000
Butyl benzyl phthalate			Not detected	410000	Not detected	83000
Carbazole			Not detected	410000	Not detected	83000
Chrysene			Not detected	410000	Not detected	83000
Dibenzo(a,h)anthracene			Not detected	410000	Not detected	83000
Dibenzofuran			Not detected	410000	Not detected	83000
Diethylphthalate			Not detected	410000	Not detected	83000
Dimethylphthalate			Not detected	410000	Not detected	83000
Di-n-butylphthalate			Not detected	410000	Not detected	83000
Di-n-octylphthalate			1300000	410000	180000	83000
Fluoranthene			Not detected	410000	Not detected	83000
Fluorene			Not detected	410000	Not detected	83000
Hexachlorobenzene			Not detected	410000	Not detected	83000
Hexachlorobutadiene			Not detected	410000	Not detected	83000
Hexachlorocyclopentadiene			Not detected	410000	Not detected	83000

YORK

Client Sample ID			MW-5 10-15'		MW-6 10-15'	
York Sample ID			06070644-01		06070644-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Hexachloroethane			Not detected	410000	Not detected	83000
Indeno(1,2,3-cd)pyrene			Not detected	410000	Not detected	83000
Isophorone			Not detected	410000	Not detected	83000
Naphthalene			Not detected	410000	Not detected	83000
Nitrobenzene			Not detected	410000	Not detected	83000
N-Nitrosodi-n-propylamine			Not detected	410000	Not detected	83000
N-Nitrosodiphenylamine			Not detected	410000	Not detected	83000
Phenanthrene			Not detected	410000	Not detected	83000
Pyrene			Not detected	410000	Not detected	83000

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06070644

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 8/1/2006

YORK

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ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

0010644

Page ___ of ___

Company Name	Report To:	Invoice To:	Project ID/No.	
ASR 62 William ST NY, N.Y. 10005	Steve Muller	ASR	49 Dupont ST Bklyn NY	Anthony Adesso (Samples Collected By (Signature)) / Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	MW-5 4'-9' *	7/20/06		X			8260 STARS 8270 BN	1 8oz / 4oz
	MW-6 10'-15'	7/20/06		X			8260 STARS 8270 BN.	1 8oz / 4oz
	* 10'-15'							

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	7/21/06 Date/Time	Sample Received by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	7/24 4:00 Date/Time

Comments/Special Instructions

4.2°C

Turn-Around Time

____Standard ____RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 7/31/2006
Re: Client Project ID: 49 Dupont St., Brooklyn, NY
York Project No.: 06070642

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 7/31/2006
Client Project ID: 49 Dupont St., Brooklyn, NY
York Project No.: 06070642

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/24/06. The project was identifed as your project "49 Dupont St., Booklyn, NY ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-7@5-10'		MW-8@5-10'	
York Sample ID			06070642-01		06070642-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
Benzene			Not detected	2.0	Not detected	2.0
Ethylbenzene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methyl-tert-butyl ether			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m- Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10

YORK

Client Sample ID			MW-7@5-10'		MW-8@5-10'	
York Sample ID			06070642-01		06070642-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			3600	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165

YORK

Client Sample ID			MW-9@5-10'		MW-10@5-10'	
York Sample ID			06070642-03		06070642-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	500	Not detected	10
1,3,5-Trimethylbenzene			Not detected	500	Not detected	10
Benzene			Not detected	100	Not detected	2.0
Ethylbenzene			Not detected	500	Not detected	10
Isopropylbenzene			Not detected	500	Not detected	10
Methyl-tert-butyl ether			Not detected	500	Not detected	10
Naphthalene			4400	500	Not detected	10
n-Butylbenzene			1100	500	Not detected	10
n-Propylbenzene			850	500	Not detected	10
o-Xylene			Not detected	500	Not detected	10
p- & m- Xylenes			Not detected	500	Not detected	10
p-Isopropyltoluene			Not detected	500	Not detected	10
sec-Butylbenzene			720	500	Not detected	10
tert-Butylbenzene			Not detected	500	Not detected	10
Toluene			Not detected	500	Not detected	10
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	4100	Not detected	165
1,2-Dichlorobenzene			Not detected	4100	Not detected	165
1,3-Dichlorobenzene			Not detected	4100	Not detected	165
1,4-Dichlorobenzene			Not detected	4100	Not detected	165
2,4-Dinitrotoluene			Not detected	4100	Not detected	165
2,6-Dinitrotoluene			Not detected	4100	Not detected	165
2-Chloronaphthalene			Not detected	4100	Not detected	165
2-Methylnaphthalene			Not detected	4100	Not detected	165
2-Nitroaniline			Not detected	4100	Not detected	165
3,3'-Dichlorobenzidine			Not detected	4100	Not detected	165
3-Nitroaniline			Not detected	4100	Not detected	165
4-Bromophenyl phenyl ether			Not detected	4100	Not detected	165
4-Chloroaniline			Not detected	4100	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	4100	Not detected	165
4-Nitroaniline			Not detected	4100	Not detected	165
Acenaphthene			Not detected	4100	Not detected	165
Acenaphthylene			Not detected	4100	Not detected	165
Anthracene			Not detected	4100	Not detected	165
Benzo(a)anthracene			Not detected	4100	Not detected	165
Benzo(a)pyrene			Not detected	4100	Not detected	165
Benzo(b)fluoranthene			Not detected	4100	Not detected	165
Benzo(g,h,i)perylene			Not detected	4100	Not detected	165
Benzo(k)fluoranthene			Not detected	4100	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	4100	Not detected	165
Bis(2-chloroethyl)ether			Not detected	4100	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	4100	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	4100	Not detected	165
Butyl benzyl phthalate			Not detected	4100	Not detected	165
Carbazole			Not detected	4100	Not detected	165
Chrysene			Not detected	4100	Not detected	165
Dibenzo(a,h)anthracene			Not detected	4100	Not detected	165
Dibenzofuran			Not detected	4100	Not detected	165

YORK

Client Sample ID			MW-9@5-10'		MW-10@5-10'	
York Sample ID			06070642-03		06070642-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Diethylphthalate			Not detected	4100	Not detected	165
Dimethylphthalate			Not detected	4100	Not detected	165
Di-n-butylphthalate			Not detected	4100	Not detected	165
Di-n-octylphthalate			Not detected	4100	Not detected	165
Fluoranthene			Not detected	4100	Not detected	165
Fluorene			Not detected	4100	Not detected	165
Hexachlorobenzene			Not detected	4100	Not detected	165
Hexachlorobutadiene			Not detected	4100	Not detected	165
Hexachlorocyclopentadiene			Not detected	4100	Not detected	165
Hexachloroethane			Not detected	4100	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	4100	Not detected	165
Isophorone			Not detected	4100	Not detected	165
Naphthalene			Not detected	4100	Not detected	165
Nitrobenzene			Not detected	4100	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	4100	Not detected	165
N-Nitrosodiphenylamine			Not detected	4100	Not detected	165
Phenanthrene			5600	4100	Not detected	165
Pyrene			Not detected	4100	Not detected	165

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06070642

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 7/31/2006

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

E600706042

Company Name	Report To:	Invoice To:	Project ID/No.	
ASR	STEVE MULLER	ASR	49 DUPONT ST BKLYN NY	E. Vazquez (Signature) / E. VAZQUEZ (Name Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	MW-7@5' TO 10'	7/21/06		X			EPA 8260 STARS	4 oz
	MW-7@5'-10'	7/21/06		X			EPA 8270 BN	8 oz
	MW-8@5'-10'	7/21/06		X			EPA 8260 STARS	4 oz
	MW-8@5'-10'	7/21/06		X			EPA 8270 BN	8 oz
	MW-9@5'-10'	7/21/06		X			EPA 8260 STARS	4 oz
	MW-9@5'-10'	7/21/06		X			EPA 8270 BN	8 oz
	MW-10@5'-10'	7/21/06		X			EPA 8260 STARS	4 oz
	MW-10@5'-10'	7/21/06		X			EPA 8270 BN	8 oz

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	E. Vazquez (Sample Relinquished by)	7/24/06 (Date/Time)	Sample Received by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	7/24 1400 (Date/Time)

Comments/Special Instructions

4.2 C

Turn-Around Time

X Standard ____ RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 7/31/2006
Re: Client Project ID: 49 Dupont St., Brooklyn, NY
York Project No.: 06070645

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 7/31/2006
Client Project ID: 49 Dupont St., Brooklyn, NY
York Project No.: 06070645

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/24/06. The project was identifed as your project "49 Dupont St., Brooklyn, NY ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-7@10-15'		MW-8@10-15'	
York Sample ID			06070645-01		06070645-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			35	25	Not detected	10
1,3,5-Trimethylbenzene			Not detected	25	Not detected	10
Benzene			Not detected	5.0	Not detected	2.0
Ethylbenzene			Not detected	25	Not detected	10
Isopropylbenzene			Not detected	25	Not detected	10
Methyl-tert-butyl ether			Not detected	25	Not detected	10
Naphthalene			Not detected	25	Not detected	10
n-Butylbenzene			Not detected	25	Not detected	10
n-Propylbenzene			Not detected	25	Not detected	10
o-Xylene			Not detected	25	Not detected	10
p- & m- Xylenes			36	25	Not detected	10
p-Isopropyltoluene			Not detected	25	Not detected	10
sec-Butylbenzene			Not detected	25	Not detected	10
tert-Butylbenzene			Not detected	25	Not detected	10

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Client Sample ID			MW-7@10-15'		MW-8@10-15'	
York Sample ID			06070645-01		06070645-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Toluene			33	.25	Not detected	10
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	170000	Not detected	830
1,2-Dichlorobenzene			Not detected	170000	Not detected	830
1,3-Dichlorobenzene			Not detected	170000	Not detected	830
1,4-Dichlorobenzene			Not detected	170000	Not detected	830
2,4-Dinitrotoluene			Not detected	170000	Not detected	830
2,6-Dinitrotoluene			Not detected	170000	Not detected	830
2-Chloronaphthalene			Not detected	170000	Not detected	830
2-Methylnaphthalene			Not detected	170000	Not detected	830
2-Nitroaniline			Not detected	170000	Not detected	830
3,3'-Dichlorobenzidine			Not detected	170000	Not detected	830
3-Nitroaniline			Not detected	170000	Not detected	830
4-Bromophenyl phenyl ether			Not detected	170000	Not detected	830
4-Chloroaniline			Not detected	170000	Not detected	830
4-Chlorophenyl phenyl ether			Not detected	170000	Not detected	830
4-Nitroaniline			Not detected	170000	Not detected	830
Acenaphthene			Not detected	170000	Not detected	830
Acenaphthylene			Not detected	170000	Not detected	830
Anthracene			Not detected	170000	Not detected	830
Benzo(a)anthracene			Not detected	170000	Not detected	830
Benzo(a)pyrene			Not detected	170000	Not detected	830
Benzo(b)fluoranthene			Not detected	170000	Not detected	830
Benzo(g,h,i)perylene			Not detected	170000	Not detected	830
Benzo(k)fluoranthene			Not detected	170000	Not detected	830
Bis(2-chloroethoxy)methane			Not detected	170000	Not detected	830
Bis(2-chloroethyl)ether			Not detected	170000	Not detected	830
Bis(2-chloroisopropyl)ether			Not detected	170000	Not detected	830
Bis(2-ethylhexyl)phthalate			1700000	170000	12000	830
Butyl benzyl phthalate			Not detected	170000	Not detected	830
Carbazole			Not detected	170000	Not detected	830
Chrysene			Not detected	170000	Not detected	830
Dibenzo(a,h)anthracene			Not detected	170000	Not detected	830
Dibenzofuran			Not detected	170000	Not detected	830
Diethylphthalate			Not detected	170000	Not detected	830
Dimethylphthalate			Not detected	170000	Not detected	830
Di-n-butylphthalate			Not detected	170000	Not detected	830
Di-n-octylphthalate			Not detected	170000	Not detected	830
Fluoranthene			Not detected	170000	Not detected	830
Fluorene			Not detected	170000	Not detected	830
Hexachlorobenzene			Not detected	170000	Not detected	830
Hexachlorobutadiene			Not detected	170000	Not detected	830
Hexachlorocyclopentadiene			Not detected	170000	Not detected	830
Hexachloroethane			Not detected	170000	Not detected	830

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Client Sample ID			MW-7@10-15'		MW-8@10-15'	
York Sample ID			06070645-01		06070645-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Indeno(1,2,3-cd)pyrene			Not detected	170000	Not detected	830
Isophorone			Not detected	170000	Not detected	830
Naphthalene			Not detected	170000	Not detected	830
Nitrobenzene			Not detected	170000	Not detected	830
N-Nitrosodi-n-propylamine			Not detected	170000	Not detected	830
N-Nitrosodiphenylamine			Not detected	170000	Not detected	830
Phenanthrene			Not detected	170000	Not detected	830
Pyrene			Not detected	170000	Not detected	830

Client Sample ID			MW-9@10-15'		MW-10@10-15'	
York Sample ID			06070645-03		06070645-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	130	Not detected	10
1,3,5-Trimethylbenzene			Not detected	130	Not detected	10
Benzene			Not detected	25	Not detected	2.0
Ethylbenzene			480	130	Not detected	10
Isopropylbenzene			620	130	Not detected	10
Methyl-tert-butyl ether			Not detected	130	Not detected	10
Naphthalene			3600	130	Not detected	10
n-Butylbenzene			1100	130	Not detected	10
n-Propylbenzene			1100	130	Not detected	10
o-Xylene			Not detected	130	Not detected	10
p- & m- Xylenes			Not detected	130	Not detected	10
p-Isopropyltoluene			Not detected	130	Not detected	10
sec-Butylbenzene			690	130	Not detected	10
tert-Butylbenzene			Not detected	130	Not detected	10
Toluene			Not detected	130	Not detected	10
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	8300	Not detected	830
1,2-Dichlorobenzene			Not detected	8300	Not detected	830
1,3-Dichlorobenzene			Not detected	8300	Not detected	830
1,4-Dichlorobenzene			Not detected	8300	Not detected	830
2,4-Dinitrotoluene			Not detected	8300	Not detected	830
2,6-Dinitrotoluene			Not detected	8300	Not detected	830
2-Chloronaphthalene			Not detected	8300	Not detected	830
2-Methylnaphthalene			21000	8300	Not detected	830
2-Nitroaniline			Not detected	8300	Not detected	830
3,3'-Dichlorobenzidine			Not detected	8300	Not detected	830
3-Nitroaniline			Not detected	8300	Not detected	830
4-Bromophenyl phenyl ether			Not detected	8300	Not detected	830
4-Chloroaniline			Not detected	8300	Not detected	830
4-Chlorophenyl phenyl ether			Not detected	8300	Not detected	830
4-Nitroaniline			Not detected	8300	Not detected	830
Acenaphthene			Not detected	8300	Not detected	830
Acenaphthylene			Not detected	8300	Not detected	830
Anthracene			Not detected	8300	Not detected	830
Benzo(a)anthracene			Not detected	8300	Not detected	830

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Client Sample ID			MW-9@10-15'		MW-10@10-15'	
York Sample ID			06070645-03		06070645-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzo(a)pyrene			Not detected	8300	Not detected	830
Benzo(b)fluoranthene			Not detected	8300	Not detected	830
Benzo(g,h,i)perylene			Not detected	8300	Not detected	830
Benzo(k)fluoranthene			Not detected	8300	Not detected	830
Bis(2-chloroethoxy)methane			Not detected	8300	Not detected	830
Bis(2-chloroethyl)ether			Not detected	8300	Not detected	830
Bis(2-chloroisopropyl)ether			Not detected	8300	Not detected	830
Bis(2-ethylhexyl)phthalate			59000	8300	6300	830
Butyl benzyl phthalate			Not detected	8300	Not detected	830
Carbazole			Not detected	8300	Not detected	830
Chrysene			Not detected	8300	Not detected	830
Dibenzo(a,h)anthracene			Not detected	8300	Not detected	830
Dibenzofuran			Not detected	8300	Not detected	830
Diethylphthalate			Not detected	8300	Not detected	830
Dimethylphthalate			Not detected	8300	Not detected	830
Di-n-butylphthalate			Not detected	8300	Not detected	830
Di-n-octylphthalate			Not detected	8300	Not detected	830
Fluoranthene			Not detected	8300	Not detected	830
Fluorene			Not detected	8300	Not detected	830
Hexachlorobenzene			Not detected	8300	Not detected	830
Hexachlorobutadiene			Not detected	8300	Not detected	830
Hexachlorocyclopentadiene			Not detected	8300	Not detected	830
Hexachloroethane			Not detected	8300	Not detected	830
Indeno(1,2,3-cd)pyrene			Not detected	8300	Not detected	830
Isophorone			Not detected	8300	Not detected	830
Naphthalene			Not detected	8300	Not detected	830
Nitrobenzene			Not detected	8300	Not detected	830
N-Nitrosodi-n-propylamine			Not detected	8300	Not detected	830
N-Nitrosodiphenylamine			Not detected	8300	Not detected	830
Phenanthrene			17000	8300	Not detected	830
Pyrene			Not detected	8300	Not detected	830

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06070645

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 7/31/2006

YORK

06010645 Page 1 of 1

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	
ASR	STEVE MULLER	ASR	49 DUPONT ST BKLYN N.Y	E. Vazquez (Samples Collected By (Signature))
				E. VAZQUEZ (Name (Printed))

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	MW-7@10'-15'	7/21/06		X			EPA 8260 STARS	4oz
	MW-7@10'-15'						EPA 8270 BN	8oz
	MW-8@10'-15'						EPA 8260 STARS	4oz
	MW-8@10'-15'						EPA 8270 BN ~~STARS~~	8oz
	MW-9@10'-15'						EPA 8260 STARS	4oz
	MW-9@10'-15'						EPA 8270 BN	8oz
	MW-10@10'-15'						EPA 8260 STARS	4oz
	MW-10@10'-15'						EPA 8270 BN	8oz

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	E. Vazquez (Sample Relinquished by)	7/24/06 (Date/Time)	Sample Received by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	7/24 4:00 Date/Time

Comments/Special Instructions 4/2°C

Turn-Around Time
X Standard ____ RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 9/21/2006
Re: Client Project ID: Dupont, Brooklyn
York Project No.: 06090528

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 9/21/2006
Client Project ID: Dupont, Brooklyn
York Project No.: 06090528

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/14/06. The project was identifed as your project "Dupont, Brooklyn ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-11@8-10'		MW-12@8-10'	
York Sample ID			06090528-01		06090528-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10.0	Not detected	10.0
1,3,5-Trimethylbenzene			Not detected	10.0	Not detected	10.0
Benzene			Not detected	2.00	Not detected	2.00
Ethylbenzene			Not detected	10.0	Not detected	10.0
Isopropylbenzene			Not detected	10.0	Not detected	10.0
Methyl-tert-butyl ether			Not detected	10.0	Not detected	10.0
Naphthalene			Not detected	10.0	Not detected	10.0
n-Butylbenzene			Not detected	10.0	Not detected	10.0
n-Propylbenzene			Not detected	10.0	Not detected	10.0
o-Xylene			Not detected	10.0	Not detected	10.0
p- & m- Xylenes			Not detected	10.0	Not detected	10.0
p-Isopropyltoluene			Not detected	10.0	Not detected	10.0
sec-Butylbenzene			Not detected	10.0	Not detected	10.0
tert-Butylbenzene			Not detected	10.0	Not detected	10.0
Toluene			Not detected	10.0	Not detected	10.0

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Client Sample ID			MW-11@8-10'		MW-12@8-10'	
York Sample ID			06090528-01		06090528-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			170	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			320	165	Not detected	165
Benzo(a)anthracene			350	165	Not detected	165
Benzo(a)pyrene			180	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			210	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			320	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			740	165	Not detected	165
Fluorene			170	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			890	165	Not detected	165
Pyrene			600	165	Not detected	165

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Client Sample ID			MW-13@8-10'		MW-14@8-10'	
York Sample ID			06090528-03		06090528-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10.0	Not detected	10.0
1,3,5-Trimethylbenzene			Not detected	10.0	Not detected	10.0
Benzene			Not detected	2.00	Not detected	2.00
Ethylbenzene			Not detected	10.0	Not detected	10.0
Isopropylbenzene			Not detected	10.0	Not detected	10.0
Methyl-tert-butyl ether			Not detected	10.0	Not detected	10.0
Naphthalene			Not detected	10.0	Not detected	10.0
n-Butylbenzene			Not detected	10.0	Not detected	10.0
n-Propylbenzene			Not detected	10.0	Not detected	10.0
o-Xylene			Not detected	10.0	Not detected	10.0
p- & m- Xylenes			Not detected	10.0	Not detected	10.0
p-Isopropyltoluene			Not detected	10.0	Not detected	10.0
sec-Butylbenzene			Not detected	10.0	Not detected	10.0
tert-Butylbenzene			Not detected	10.0	Not detected	10.0
Toluene			Not detected	10.0	Not detected	10.0
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165

YORK

Client Sample ID			MW-13@8-10'		MW-14@8-10'	
York Sample ID			06090528-03		06090528-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06090528

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 9/21/2006

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

0609 0528

Company Name	Report To:	Invoice To:	Project ID/No.	
ADVANCED SITE RESTORATION, LLC 62 WILLIAM ST. NY, NY 10005	S. MULLER	ASR	DUPONT, BROOKLYN	Samples Collected By (Signature): [signature] Name (Printed): STEVEN MULLER

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	MW-11 @ 8'-10'	9/13/06		X			EPA 8260 STARS EPA 8270 BN	1-402 1-802
	MW-12 @ 8'-10'	9/13/06		X			EPA 8260 STARS EPA 8270 BN	1-403 1-803
	MW-13 @ 8'-10'	9/13/06		X			EPA 8260 STARS EPA 8270 BN	1-403 1-803
	MW-14 @ 8'-10'	9/13/06		X			EPA 8260 STARS EPA 8270 BN	1-403 1-803

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
		[signature]	9140	[signature]	9/14/06
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time
				[signature]	9/14/06 P 5.0C

Comments/Special Instructions

Turn-Around Time
X Standard ___ RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 12/20/2006
Re: Client Project ID: 49 Dupont St., Brooklyn
York Project No.: 06120412

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 12/20/2006
Client Project ID: 49 Dupont St., Brooklyn
York Project No.: 06120412

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 12/13/06. The project was identifed as your project "49 Dupont St., Brooklyn ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-15 8-10'		MW-16 8-10'	
York Sample ID			06120412-01		06120412-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10.0	Not detected	10.0
1,3,5-Trimethylbenzene			Not detected	10.0	Not detected	10.0
Benzene			Not detected	2.00	Not detected	2.00
Ethylbenzene			Not detected	10.0	Not detected	10.0
Isopropylbenzene			Not detected	10.0	Not detected	10.0
Methyl-tert-butyl ether			Not detected	10.0	Not detected	10.0
Naphthalene			Not detected	10.0	Not detected	10.0
n-Butylbenzene			Not detected	10.0	Not detected	10.0
n-Propylbenzene			Not detected	10.0	Not detected	10.0
o-Xylene			Not detected	10.0	Not detected	10.0
p- & m- Xylenes			Not detected	10.0	Not detected	10.0
p-Isopropyltoluene			Not detected	10.0	Not detected	10.0
sec-Butylbenzene			Not detected	10.0	Not detected	10.0
tert-Butylbenzene			Not detected	10.0	Not detected	10.0
Toluene			Not detected	10.0	Not detected	10.0

YORK

Client Sample ID			MW-15 8-10'		MW-16 8-10'	
York Sample ID			06120412-01		06120412-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	1700	Not detected	165
1,2-Dichlorobenzene			Not detected	1700	Not detected	165
1,3-Dichlorobenzene			Not detected	1700	Not detected	165
1,4-Dichlorobenzene			Not detected	1700	Not detected	165
2,4-Dinitrotoluene			Not detected	1700	Not detected	165
2,6-Dinitrotoluene			Not detected	1700	Not detected	165
2-Chloronaphthalene			Not detected	1700	Not detected	165
2-Methylnaphthalene			Not detected	1700	Not detected	165
2-Nitroaniline			Not detected	1700	Not detected	165
3,3'-Dichlorobenzidine			Not detected	1700	Not detected	165
3-Nitroaniline			Not detected	1700	Not detected	165
4-Bromophenyl phenyl ether			Not detected	1700	Not detected	165
4-Chloroaniline			Not detected	1700	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	1700	Not detected	165
4-Nitroaniline			Not detected	1700	Not detected	165
Acenaphthene			Not detected	1700	Not detected	165
Acenaphthylene			Not detected	1700	Not detected	165
Anthracene			Not detected	1700	Not detected	165
Benzo(a)anthracene			Not detected	1700	Not detected	165
Benzo(a)pyrene			Not detected	1700	Not detected	165
Benzo(b)fluoranthene			Not detected	1700	Not detected	165
Benzo(g,h,i)perylene			Not detected	1700	Not detected	165
Benzo(k)fluoranthene			Not detected	1700	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	1700	Not detected	165
Bis(2-chloroethyl)ether			Not detected	1700	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	1700	Not detected	165
Bis(2-ethylhexyl)phthalate			6400	1700	Not detected	165
Butyl benzyl phthalate			Not detected	1700	Not detected	165
Carbazole			Not detected	1700	Not detected	165
Chrysene			Not detected	1700	Not detected	165
Dibenzo(a,h)anthracene			Not detected	1700	Not detected	165
Dibenzofuran			Not detected	1700	Not detected	165
Diethylphthalate			Not detected	1700	Not detected	165
Dimethylphthalate			Not detected	1700	Not detected	165
Di-n-butylphthalate			Not detected	1700	Not detected	165
Di-n-octylphthalate			Not detected	1700	990	165
Fluoranthene			Not detected	1700	Not detected	165
Fluorene			Not detected	1700	Not detected	165
Hexachlorobenzene			Not detected	1700	Not detected	165
Hexachlorobutadiene			Not detected	1700	Not detected	165
Hexachlorocyclopentadiene			Not detected	1700	Not detected	165
Hexachloroethane			Not detected	1700	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	1700	Not detected	165
Isophorone			Not detected	1700	Not detected	165
Naphthalene			Not detected	1700	Not detected	165
Nitrobenzene			Not detected	1700	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	1700	Not detected	165
N-Nitrosodiphenylamine			Not detected	1700	Not detected	165
Phenanthrene			Not detected	1700	Not detected	165
Pyrene			Not detected	1700	Not detected	165

YORK

Client Sample ID			SB-4A@10'		SB-4B@10'	
York Sample ID			06120412-03		06120412-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Mercury	SW846-7471	mg/kG	Not detected	0.10	Not detected	0.10

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06120412

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ **Date:** 12/20/2006

Robert Q. Bradley
Managing Director

YORK

Page ___ of ___

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

20120412

Company Name	Report To:	Invoice To:	Project ID/No.	
Advanced Site Restoration	Steve M	ASR	49 Dupont St Bklyn	Samples Collected By (Signature): [signature] Name (Printed): Anthony Fosso

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	MW-15 8'-10'	12-7-06		X			8260 STOTS 8270 BN	1 8oz 1 4oz
	MW-16 8'-10'	12-7-06		X			" "	1 8oz 1 4oz
	SB-4A @ 10'	12-7-06		X			mercury only	1 8oz
	SB-4b @ 10'	12-7-06		X			mercury only	1 8oz

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	[signature] Sample Relinquished by	12-11-06 Date/Time	Sample Received by [signature]	12/13/06 9AM Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	Date/Time

Comments/Special Instructions

Turn-Around Time

___Standard ___RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 8/1/2006
Re: Client Project ID: 49 Dupont St., Brooklyn, NY
York Project No.: 06070673

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 8/1/2006
Client Project ID: 49 Dupont St., Brooklyn, NY
York Project No.: 06070673

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/25/06. The project was identifed as your project "49 Dupont St., Brooklyn, NY".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			5-10' ASR-11		10-15' ASR-11	
York Sample ID			06070673-01		06070673-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
Benzene			Not detected	2.0	Not detected	2.0
Ethylbenzene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methyl-tert-butyl ether			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m- Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10

YORK

Client Sample ID			5-10' ASR-11		10-15' ASR-11	
York Sample ID			06070673-01		06070673-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	190	165

YORK

Client Sample ID			ASR-11	
York Sample ID			06070673-03	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-STARS List	SW846-8260	ug/L	---	---
1,2,4-Trimethylbenzene			Not detected	5
1,3,5-Trimethylbenzene			Not detected	5
Benzene			2	1
Ethylbenzene			Not detected	5
Isopropylbenzene			Not detected	5
Methyl-tert-butyl ether			Not detected	5
Naphthalene			Not detected	5
n-Butylbenzene			Not detected	5
n-Propylbenzene			Not detected	5
o-Xylene			Not detected	5
p- & m- Xylenes			Not detected	5
p-Isopropyltoluene			Not detected	5
sec-Butylbenzene			Not detected	5
tert-Butylbenzene			Not detected	5
Toluene			Not detected	5
Base/Neutral Extractables water	SW846-8270	ug/L	---	---
1,2,4-Trichlorobenzene			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0
2,4-Dinitrotoluene			Not detected	5.0
2,6-Dinitrotoluene			Not detected	5.0
2-Chloronaphthalene			Not detected	5.0
2-Methylnaphthalene			Not detected	5.0
2-Nitroaniline			Not detected	5.0
3,3'-Dichlorobenzidine			Not detected	5.0
3-Nitroaniline			Not detected	5.0
4-Bromophenyl phenyl ether			Not detected	5.0
4-Chloroaniline			Not detected	5.0
4-Chlorophenyl phenyl ether			Not detected	5.0
4-Nitroaniline			Not detected	5.0
Acenaphthene			Not detected	5.0
Acenaphthylene			Not detected	5.0
Anthracene			Not detected	5.0
Benzo(a)anthracene			Not detected	5.0
Benzo(a)pyrene			Not detected	5.0
Benzo(b)fluoranthene			Not detected	5.0
Benzo(g,h,i)perylene			Not detected	5.0
Benzo(k)fluoranthene			Not detected	5.0
Bis(2-chloroethoxy)methane			Not detected	5.0
Bis(2-chloroethyl)ether			Not detected	5.0
Bis(2-chloroisopropyl)ether			Not detected	5.0
Bis(2-ethylhexyl)phthalate			18	5.0
Butyl benzyl phthalate			Not detected	5.0
Carbazole			Not detected	5.0
Chrysene			Not detected	5.0
Dibenzo(a,h)anthracene			Not detected	5.0
Dibenzofuran			Not detected	5.0

YORK

Client Sample ID			ASR-11	
York Sample ID			06070673-03	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Diethylphthalate			Not detected	5.0
Dimethylphthalate			Not detected	5.0
Di-n-butylphthalate			Not detected	5.0
Di-n-octylphthalate			Not detected	5.0
Fluoranthene			Not detected	5.0
Fluorene			Not detected	5.0
Hexachlorobenzene			Not detected	5.0
Hexachlorobutadiene			Not detected	5.0
Hexachlorocyclopentadiene			Not detected	5.0
Hexachloroethane			Not detected	5.0
Indeno(1,2,3-cd)pyrene			Not detected	5.0
Isophorone			Not detected	5.0
Naphthalene			Not detected	5.0
Nitrobenzene			Not detected	5.0
N-Nitrosodi-n-propylamine			Not detected	5.0
N-Nitrosodiphenylamine			Not detected	5.0
Phenanthrene			Not detected	5.0
Pyrene			Not detected	5.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06070673

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 8/1/2006

YORK

00010673

Page 1 of 1

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	
ASR 62 William St NY NY 10005	Steve M	ASR	49 Dupont St Bklyn	Samples Collected By (Signature): [signature] Name (Printed): Anthony Adesso

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
5-10'	ASR-11	7/24/06		X			8270 BN / 8260 STCS	1 802 / 1 402
10-15'	ASR-11	7/24/06		X			8270 BN / 8260 STCS	1 802 / 1 402
	ASR-11	7/24	X				8270 BN	1
	ASR-11	7/24	X				8260 STCS	2 vial

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by [signature]	7/25 Date/Time	Sample Received by [signature]	7/25 06 Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by [signature]	7/25 4:30 Date/Time

4.2°C

Comments/Special Instructions

Turn-Around Time

___Standard ___RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 8/2/2006
Re: Client Project ID: 49 Dupont St., Brooklyn
York Project No.: 06070672

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120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 8/2/2006
Client Project ID: 49 Dupont St., Brooklyn
York Project No.: 06070672

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/25/06. The project was identifed as your project "49 Dupont St., Brooklyn ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			5-10' ASR-12		10-15' ASR-12	
York Sample ID			06070672-01		06070672-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	130
1,3,5-Trimethylbenzene			Not detected	10	Not detected	130
Benzene			Not detected	2.0	Not detected	25
Ethylbenzene			Not detected	10	Not detected	130
Isopropylbenzene			Not detected	10	Not detected	130
Methyl-tert-butyl ether			Not detected	10	Not detected	130
Naphthalene			Not detected	10	Not detected	130
n-Butylbenzene			Not detected	10	Not detected	130
n-Propylbenzene			Not detected	10	Not detected	130
o-Xylene			Not detected	10	Not detected	130
p- & m- Xylenes			Not detected	10	Not detected	130
p-Isopropyltoluene			Not detected	10	Not detected	130
sec-Butylbenzene			Not detected	10	Not detected	130
tert-Butylbenzene			Not detected	10	Not detected	130
Toluene			Not detected	10	Not detected	130

YORK

Client Sample ID			5-10' ASR-12		10-15' ASR-12	
York Sample ID			06070672-01		06070672-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165

YORK

Client Sample ID			ASR-12	
York Sample ID			06070672-03	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-STARS List	SW846-8260	ug/L	---	---
1,2,4-Trimethylbenzene			Not detected	500
1,3,5-Trimethylbenzene			Not detected	500
Benzene			Not detected	100
Ethylbenzene			Not detected	500
Isopropylbenzene			Not detected	500
Methyl-tert-butyl ether			Not detected	500
Naphthalene			2300	500
n-Butylbenzene			Not detected	500
n-Propylbenzene			Not detected	500
o-Xylene			Not detected	500
p- & m- Xylenes			Not detected	500
p-Isopropyltoluene			Not detected	500
sec-Butylbenzene			Not detected	500
tert-Butylbenzene			Not detected	500
Toluene			Not detected	500
Base/Neutral Extractables water	SW846-8270	ug/L	---	---
1,2,4-Trichlorobenzene			Not detected	25.0
1,2-Dichlorobenzene			Not detected	25.0
1,3-Dichlorobenzene			Not detected	25.0
1,4-Dichlorobenzene			Not detected	25.0
2,4-Dinitrotoluene			Not detected	25.0
2,6-Dinitrotoluene			Not detected	25.0
2-Chloronaphthalene			Not detected	25.0
2-Methylnaphthalene			210	25.0
2-Nitroaniline			Not detected	25.0
3,3'-Dichlorobenzidine			Not detected	25.0
3-Nitroaniline			Not detected	25.0
4-Bromophenyl phenyl ether			Not detected	25.0
4-Chloroaniline			Not detected	25.0
4-Chlorophenyl phenyl ether			Not detected	25.0
4-Nitroaniline			Not detected	25.0
Acenaphthene			Not detected	25.0
Acenaphthylene			Not detected	25.0
Anthracene			Not detected	25.0
Benzo(a)anthracene			Not detected	25.0
Benzo(a)pyrene			Not detected	25.0
Benzo(b)fluoranthene			Not detected	25.0
Benzo(g,h,i)perylene			Not detected	25.0
Benzo(k)fluoranthene			Not detected	25.0
Bis(2-chloroethoxy)methane			Not detected	25.0
Bis(2-chloroethyl)ether			Not detected	25.0
Bis(2-chloroisopropyl)ether			Not detected	25.0
Bis(2-ethylhexyl)phthalate			Not detected	25.0
Butyl benzyl phthalate			Not detected	25.0
Carbazole			Not detected	25.0
Chrysene			Not detected	25.0
Dibenzo(a,h)anthracene			Not detected	25.0
Dibenzofuran			Not detected	25.0

YORK

Client Sample ID			ASR-12	
York Sample ID			06070672-03	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Diethylphthalate			Not detected	25.0
Dimethylphthalate			Not detected	25.0
Di-n-butylphthalate			Not detected	25.0
Di-n-octylphthalate			Not detected	25.0
Fluoranthene			Not detected	25.0
Fluorene			Not detected	25.0
Hexachlorobenzene			Not detected	25.0
Hexachlorobutadiene			Not detected	25.0
Hexachlorocyclopentadiene			Not detected	25.0
Hexachloroethane			Not detected	25.0
Indeno(1,2,3-cd)pyrene			Not detected	25.0
Isophorone			Not detected	25.0
Naphthalene			210	25.0
Nitrobenzene			Not detected	25.0
N-Nitrosodi-n-propylamine			Not detected	25.0
N-Nitrosodiphenylamine			Not detected	25.0
Phenanthrene			Not detected	25.0
Pyrene			Not detected	25.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06070672

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 8/2/2006

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

00070612

Company Name	Report To:	Invoice To:	Project ID/No.	
ASR G2 Williams St NY NY 10005	Steve	ASR	49 Dupont St BKLYN	Samples Collected By (Signature) / Anthony Adesso (Name (Printed))

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
5-10'	ASR-12	7/24		X			8270 BN / 8260 STCS	1 8oz / 4oz
10-11'	" "	7/24		X			" "	1 8oz / 4oz
		7/24	X				8270 BN	1 amber
		7/24	X				8260 STCS	2 VOL

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	7/25/06 Date/Time	Sample Received by	7/25/06 Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	7/26 1:50 Date/Time

Comments/Special Instructions

42°C

Turn-Around Time

____Standard ____RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 8/3/2006
Re: Client Project ID: 49 Dupont St.
York Project No.: 06070674

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 8/3/2006
Client Project ID: 49 Dupont St.
York Project No.: 06070674

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

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The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

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All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-1		MW-2	
York Sample ID			06070674-01		06070674-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	Not detected	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	5	Not detected	5
Isopropylbenzene			5	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			75	5	Not detected	5
n-Butylbenzene			6	5	Not detected	5
n-Propylbenzene			7	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			Not detected	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			9	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5

YORK

Client Sample ID			MW-1		MW-2	
York Sample ID			06070674-01		06070674-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables water	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	50.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	50.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	50.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	50.0	Not detected	5.0
2,4-Dinitrotoluene			Not detected	50.0	Not detected	5.0
2,6-Dinitrotoluene			Not detected	50.0	Not detected	5.0
2-Chloronaphthalene			Not detected	50.0	Not detected	5.0
2-Methylnaphthalene			Not detected	50.0	Not detected	5.0
2-Nitroaniline			Not detected	50.0	Not detected	5.0
3,3'-Dichlorobenzidine			Not detected	50.0	Not detected	5.0
3-Nitroaniline			Not detected	50.0	Not detected	5.0
4-Bromophenyl phenyl ether			Not detected	50.0	Not detected	5.0
4-Chloroaniline			Not detected	50.0	Not detected	5.0
4-Chlorophenyl phenyl ether			Not detected	50.0	Not detected	5.0
4-Nitroaniline			Not detected	50.0	Not detected	5.0
Acenaphthene			Not detected	50.0	Not detected	5.0
Acenaphthylene			Not detected	50.0	Not detected	5.0
Anthracene			Not detected	50.0	Not detected	5.0
Benzo(a)anthracene			Not detected	50.0	Not detected	5.0
Benzo(a)pyrene			Not detected	50.0	Not detected	5.0
Benzo(b)fluoranthene			Not detected	50.0	Not detected	5.0
Benzo(g,h,i)perylene			Not detected	50.0	Not detected	5.0
Benzo(k)fluoranthene			Not detected	50.0	Not detected	5.0
Bis(2-chloroethoxy)methane			Not detected	50.0	Not detected	5.0
Bis(2-chloroethyl)ether			Not detected	50.0	Not detected	5.0
Bis(2-chloroisopropyl)ether			Not detected	50.0	Not detected	5.0
Bis(2-ethylhexyl)phthalate			Not detected	50.0	Not detected	5.0
Butyl benzyl phthalate			Not detected	50.0	60	5.0
Carbazole			Not detected	50.0	Not detected	5.0
Chrysene			Not detected	50.0	Not detected	5.0
Dibenzo(a,h)anthracene			Not detected	50.0	Not detected	5.0
Dibenzofuran			Not detected	50.0	Not detected	5.0
Diethylphthalate			Not detected	50.0	Not detected	5.0
Dimethylphthalate			Not detected	50.0	Not detected	5.0
Di-n-butylphthalate			Not detected	50.0	Not detected	5.0
Di-n-octylphthalate			Not detected	50.0	Not detected	5.0
Fluoranthene			Not detected	50.0	Not detected	5.0
Fluorene			Not detected	50.0	Not detected	5.0
Hexachlorobenzene			75	50.0	Not detected	5.0
Hexachlorobutadiene			Not detected	50.0	Not detected	5.0
Hexachlorocyclopentadiene			Not detected	50.0	Not detected	5.0
Hexachloroethane			Not detected	50.0	Not detected	5.0
Indeno(1,2,3-cd)pyrene			Not detected	50.0	Not detected	5.0
Isophorone			Not detected	50.0	Not detected	5.0
Naphthalene			Not detected	50.0	Not detected	5.0
Nitrobenzene			99	50.0	Not detected	5.0
N-Nitrosodi-n-propylamine			Not detected	50.0	Not detected	5.0
N-Nitrosodiphenylamine			Not detected	50.0	Not detected	5.0
Phenanthrene			Not detected	50.0	Not detected	5.0
Pyrene			110	50.0	Not detected	5.0
			Not detected	50.0	Not detected	5.0

YORK

Client Sample ID			MW-3		MW-4	
York Sample ID			06070674-03		06070674-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	PENDING	5
1,3,5-Trimethylbenzene			Not detected	5	PENDING	5
Benzene			Not detected	1	PENDING	1
Ethylbenzene			Not detected	5	PENDING	5
Isopropylbenzene			Not detected	5	PENDING	5
Methyl-tert-butyl ether			Not detected	5	PENDING	5
Naphthalene			Not detected	5	PENDING	5
n-Butylbenzene			Not detected	5	PENDING	5
n-Propylbenzene			Not detected	5	PENDING	5
o-Xylene			Not detected	5	PENDING	5
p- & m- Xylenes			Not detected	5	PENDING	5
p-Isopropyltoluene			Not detected	5	PENDING	5
sec-Butylbenzene			Not detected	5	PENDING	5
tert-Butylbenzene			Not detected	5	PENDING	5
Toluene			Not detected	5	PENDING	5
Base/Neutral Extractables water	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	12500
1,2-Dichlorobenzene			Not detected	5.0	Not detected	12500
1,3-Dichlorobenzene			Not detected	5.0	Not detected	12500
1,4-Dichlorobenzene			Not detected	5.0	Not detected	12500
2,4-Dinitrotoluene			Not detected	5.0	Not detected	12500
2,6-Dinitrotoluene			Not detected	5.0	Not detected	12500
2-Chloronaphthalene			Not detected	5.0	Not detected	12500
2-Methylnaphthalene			Not detected	5.0	Not detected	12500
2-Nitroaniline			Not detected	5.0	Not detected	12500
3,3'-Dichlorobenzidine			Not detected	5.0	Not detected	12500
3-Nitroaniline			Not detected	5.0	Not detected	12500
4-Bromophenyl phenyl ether			Not detected	5.0	Not detected	12500
4-Chloroaniline			Not detected	5.0	Not detected	12500
4-Chlorophenyl phenyl ether			Not detected	5.0	Not detected	12500
4-Nitroaniline			Not detected	5.0	Not detected	12500
Acenaphthene			Not detected	5.0	Not detected	12500
Acenaphthylene			Not detected	5.0	Not detected	12500
Anthracene			Not detected	5.0	Not detected	12500
Benzo(a)anthracene			Not detected	5.0	Not detected	12500
Benzo(a)pyrene			Not detected	5.0	Not detected	12500
Benzo(b)fluoranthene			Not detected	5.0	Not detected	12500
Benzo(g,h,i)perylene			Not detected	5.0	Not detected	12500
Benzo(k)fluoranthene			Not detected	5.0	Not detected	12500
Bis(2-chloroethoxy)methane			Not detected	5.0	Not detected	12500
Bis(2-chloroethyl)ether			Not detected	5.0	Not detected	12500
Bis(2-chloroisopropyl)ether			Not detected	5.0	Not detected	12500
Bis(2-ethylhexyl)phthalate			31	5.0	120000	12500
Butyl benzyl phthalate			Not detected	5.0	Not detected	12500
Carbazole			Not detected	5.0	Not detected	12500
Chrysene			Not detected	5.0	Not detected	12500
Dibenzo(a,h)anthracene			Not detected	5.0	Not detected	12500
Dibenzofuran			Not detected	5.0	Not detected	12500
Diethylphthalate			Not detected	5.0	Not detected	12500

YORK

Client Sample ID			MW-3		MW-4	
York Sample ID			06070674-03		06070674-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Dimethylphthalate			Not detected	5.0	Not detected	12500
Di-n-butylphthalate			Not detected	5.0	Not detected	12500
Di-n-octylphthalate			Not detected	5.0	160000	12500
Fluoranthene			Not detected	5.0	Not detected	12500
Fluorene			Not detected	5.0	Not detected	12500
Hexachlorobenzene			Not detected	5.0	Not detected	12500
Hexachlorobutadiene			Not detected	5.0	Not detected	12500
Hexachlorocyclopentadiene			Not detected	5.0	Not detected	12500
Hexachloroethane			Not detected	5.0	Not detected	12500
Indeno(1,2,3-cd)pyrene			Not detected	5.0	Not detected	12500
Isophorone			Not detected	5.0	Not detected	12500
Naphthalene			Not detected	5.0	Not detected	12500
Nitrobenzene			Not detected	5.0	Not detected	12500
N-Nitrosodi-n-propylamine			Not detected	5.0	Not detected	12500
N-Nitrosodiphenylamine			Not detected	5.0	Not detected	12500
Phenanthrene			Not detected	5.0	Not detected	12500
Pyrene			Not detected	5.0	Not detected	12500

Client Sample ID			MW-5		MW-6	
York Sample ID			06070674-05		06070674-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			6	5	11	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	5	Not detected	5
Isopropylbenzene			Not detected	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			8	5	Not detected	5
n-Butylbenzene			Not detected	5	Not detected	5
n-Propylbenzene			Not detected	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			Not detected	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			Not detected	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5
Base/Neutral Extractables water	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	50000	Not detected	250000
1,2-Dichlorobenzene			Not detected	50000	Not detected	250000
1,3-Dichlorobenzene			Not detected	50000	Not detected	250000
1,4-Dichlorobenzene			Not detected	50000	Not detected	250000
2,4-Dinitrotoluene			Not detected	50000	Not detected	250000
2,6-Dinitrotoluene			Not detected	50000	Not detected	250000
2-Chloronaphthalene			Not detected	50000	Not detected	250000
2-Methylnaphthalene			Not detected	50000	Not detected	250000
2-Nitroaniline			Not detected	50000	Not detected	250000
3,3'-Dichlorobenzidine			Not detected	50000	Not detected	250000

YORK

Client Sample ID			MW-5		MW-6	
York Sample ID			06070674-05		06070674-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
3-Nitroaniline			Not detected	50000	Not detected	250000
4-Bromophenyl phenyl ether			Not detected	50000	Not detected	250000
4-Chloroaniline			Not detected	50000	Not detected	250000
4-Chlorophenyl phenyl ether			Not detected	50000	Not detected	250000
4-Nitroaniline			Not detected	50000	Not detected	250000
Acenaphthene			Not detected	50000	Not detected	250000
Acenaphthylene			Not detected	50000	Not detected	250000
Anthracene			Not detected	50000	Not detected	250000
Benzo(a)anthracene			Not detected	50000	Not detected	250000
Benzo(a)pyrene			Not detected	50000	Not detected	250000
Benzo(b)fluoranthene			Not detected	50000	Not detected	250000
Benzo(g,h,i)perylene			Not detected	50000	Not detected	250000
Benzo(k)fluoranthene			Not detected	50000	Not detected	250000
Bis(2-chloroethoxy)methane			Not detected	50000	Not detected	250000
Bis(2-chloroethyl)ether			Not detected	50000	Not detected	250000
Bis(2-chloroisopropyl)ether			Not detected	50000	Not detected	250000
Bis(2-ethylhexyl)phthalate			780000	50000	1300000	250000
Butyl benzyl phthalate			Not detected	50000	Not detected	250000
Carbazole			Not detected	50000	Not detected	250000
Chrysene			Not detected	50000	Not detected	250000
Dibenzo(a,h)anthracene			Not detected	50000	Not detected	250000
Dibenzofuran			Not detected	50000	Not detected	250000
Diethylphthalate			Not detected	50000	Not detected	250000
Dimethylphthalate			Not detected	50000	Not detected	250000
Di-n-butylphthalate			Not detected	50000	Not detected	250000
Di-n-octylphthalate			90000	50000	Not detected	250000
Fluoranthene			Not detected	50000	Not detected	250000
Fluorene			Not detected	50000	Not detected	250000
Hexachlorobenzene			Not detected	50000	Not detected	250000
Hexachlorobutadiene			Not detected	50000	Not detected	250000
Hexachlorocyclopentadiene			Not detected	50000	Not detected	250000
Hexachloroethane			Not detected	50000	Not detected	250000
Indeno(1,2,3-cd)pyrene			Not detected	50000	Not detected	250000
Isophorone			Not detected	50000	Not detected	250000
Naphthalene			Not detected	50000	Not detected	250000
Nitrobenzene			Not detected	50000	Not detected	250000
N-Nitrosodi-n-propylamine			Not detected	50000	Not detected	250000
N-Nitrosodiphenylamine			Not detected	50000	Not detected	250000
Phenanthrene			Not detected	50000	Not detected	250000
Pyrene			Not detected	50000	Not detected	250000

Client Sample ID			MW-7		MW-8	
York Sample ID			06070674-07		06070674-08	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	Not detected	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1

YORK

Client Sample ID			MW-7		MW-8	
York Sample ID			06070674-07		06070674-08	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Ethylbenzene			Not detected	5	Not detected	5
Isopropylbenzene			Not detected	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			Not detected	5	Not detected	5
n-Butylbenzene			Not detected	5	Not detected	5
n-Propylbenzene			Not detected	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			Not detected	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			Not detected	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5
Base/Neutral Extractables water	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	31300	Not detected	5.0
1,2-Dichlorobenzene			Not detected	31300	Not detected	5.0
1,3-Dichlorobenzene			Not detected	31300	Not detected	5.0
1,4-Dichlorobenzene			Not detected	31300	Not detected	5.0
2,4-Dinitrotoluene			Not detected	31300	Not detected	5.0
2,6-Dinitrotoluene			Not detected	31300	Not detected	5.0
2-Chloronaphthalene			Not detected	31300	Not detected	5.0
2-Methylnaphthalene			Not detected	31300	Not detected	5.0
2-Nitroaniline			Not detected	31300	Not detected	5.0
3,3'-Dichlorobenzidine			Not detected	31300	Not detected	5.0
3-Nitroaniline			Not detected	31300	Not detected	5.0
4-Bromophenyl phenyl ether			Not detected	31300	Not detected	5.0
4-Chloroaniline			Not detected	31300	Not detected	5.0
4-Chlorophenyl phenyl ether			Not detected	31300	Not detected	5.0
4-Nitroaniline			Not detected	31300	Not detected	5.0
Acenaphthene			Not detected	31300	Not detected	5.0
Acenaphthylene			Not detected	31300	Not detected	5.0
Anthracene			Not detected	31300	Not detected	5.0
Benzo(a)anthracene			Not detected	31300	Not detected	5.0
Benzo(a)pyrene			Not detected	31300	Not detected	5.0
Benzo(b)fluoranthene			Not detected	31300	Not detected	5.0
Benzo(g,h,i)perylene			Not detected	31300	Not detected	5.0
Benzo(k)fluoranthene			Not detected	31300	Not detected	5.0
Bis(2-chloroethoxy)methane			Not detected	31300	Not detected	5.0
Bis(2-chloroethyl)ether			Not detected	31300	Not detected	5.0
Bis(2-chloroisopropyl)ether			Not detected	31300	Not detected	5.0
Bis(2-ethylhexyl)phthalate			Not detected	31300	Not detected	5.0
Butyl benzyl phthalate			370000	31300	89	5.0
Carbazole			Not detected	31300	Not detected	5.0
Chrysene			Not detected	31300	Not detected	5.0
Dibenzo(a,h)anthracene			Not detected	31300	Not detected	5.0
Dibenzofuran			Not detected	31300	Not detected	5.0
Diethylphthalate			Not detected	31300	Not detected	5.0
Dimethylphthalate			Not detected	31300	Not detected	5.0
Di-n-butylphthalate			Not detected	31300	Not detected	5.0
Di-n-octylphthalate			Not detected	31300	Not detected	5.0
Fluoranthene			Not detected	31300	Not detected	5.0
Fluorene			Not detected	31300	Not detected	5.0

YORK

Client Sample ID			MW-7		MW-8	
York Sample ID			06070674-07		06070674-08	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Hexachlorobenzene			Not detected	31300	Not detected	5.0
Hexachlorobutadiene			Not detected	31300	Not detected	5.0
Hexachlorocyclopentadiene			Not detected	31300	Not detected	5.0
Hexachloroethane			Not detected	31300	Not detected	5.0
Indeno(1,2,3-cd)pyrene			Not detected	31300	Not detected	5.0
Isophorone			Not detected	31300	Not detected	5.0
Naphthalene			Not detected	31300	Not detected	5.0
Nitrobenzene			Not detected	31300	Not detected	5.0
N-Nitrosodi-n-propylamine			Not detected	31300	Not detected	5.0
N-Nitrosodiphenylamine			Not detected	31300	Not detected	5.0
Phenanthrene			Not detected	31300	Not detected	5.0
Pyrene			Not detected	31300	Not detected	5.0

Client Sample ID			MW-9		MW-10	
York Sample ID			06070674-09		06070674-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	Not detected	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1
Ethylbenzene			11	5	Not detected	5
Isopropylbenzene			8	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			71	5	Not detected	5
n-Butylbenzene			6	5	Not detected	5
n-Propylbenzene			10	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			11	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			Not detected	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5
Base/Neutral Extractables water	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	50.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	50.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	50.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	50.0	Not detected	5.0
2,4-Dinitrotoluene			Not detected	50.0	Not detected	5.0
2,6-Dinitrotoluene			Not detected	50.0	Not detected	5.0
2-Chloronaphthalene			Not detected	50.0	Not detected	5.0
2-Methylnaphthalene			Not detected	50.0	Not detected	5.0
2-Nitroaniline			Not detected	50.0	Not detected	5.0
3,3'-Dichlorobenzidine			Not detected	50.0	Not detected	5.0
3-Nitroaniline			Not detected	50.0	Not detected	5.0
4-Bromophenyl phenyl ether			Not detected	50.0	Not detected	5.0
4-Chloroaniline			Not detected	50.0	Not detected	5.0
4-Chlorophenyl phenyl ether			Not detected	50.0	Not detected	5.0
4-Nitroaniline			Not detected	50.0	Not detected	5.0

YORK

Client Sample ID			MW-9		MW-10	
York Sample ID			06070674-09		06070674-10	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Acenaphthene			Not detected	50.0	Not detected	5.0
Acenaphthylene			Not detected	50.0	Not detected	5.0
Anthracene			Not detected	50.0	Not detected	5.0
Benzo(a)anthracene			Not detected	50.0	Not detected	5.0
Benzo(a)pyrene			Not detected	50.0	Not detected	5.0
Benzo(b)fluoranthene			Not detected	50.0	Not detected	5.0
Benzo(g,h,i)perylene			Not detected	50.0	Not detected	5.0
Benzo(k)fluoranthene			Not detected	50.0	Not detected	5.0
Bis(2-chloroethoxy)methane			Not detected	50.0	Not detected	5.0
Bis(2-chloroethyl)ether			Not detected	50.0	Not detected	5.0
Bis(2-chloroisopropyl)ether			Not detected	50.0	Not detected	5.0
Bis(2-ethylhexyl)phthalate			Not detected	50.0	6	5.0
Butyl benzyl phthalate			Not detected	50.0	Not detected	5.0
Carbazole			Not detected	50.0	Not detected	5.0
Chrysene			Not detected	50.0	Not detected	5.0
Dibenzo(a,h)anthracene			Not detected	50.0	Not detected	5.0
Dibenzofuran			Not detected	50.0	Not detected	5.0
Diethylphthalate			Not detected	50.0	Not detected	5.0
Dimethylphthalate			Not detected	50.0	Not detected	5.0
Di-n-butylphthalate			Not detected	50.0	Not detected	5.0
Di-n-octylphthalate			Not detected	50.0	Not detected	5.0
Fluoranthene			Not detected	50.0	Not detected	5.0
Fluorene			Not detected	50.0	Not detected	5.0
Hexachlorobenzene			Not detected	50.0	Not detected	5.0
Hexachlorobutadiene			Not detected	50.0	Not detected	5.0
Hexachlorocyclopentadiene			Not detected	50.0	Not detected	5.0
Hexachloroethane			Not detected	50.0	Not detected	5.0
Indeno(1,2,3-cd)pyrene			Not detected	50.0	Not detected	5.0
Isophorone			Not detected	50.0	Not detected	5.0
Naphthalene			Not detected	50.0	Not detected	5.0
Nitrobenzene			Not detected	50.0	Not detected	5.0
N-Nitrosodi-n-propylamine			Not detected	50.0	Not detected	5.0
N-Nitrosodiphenylamine			Not detected	50.0	Not detected	5.0
Phenanthrene			Not detected	50.0	Not detected	5.0
Pyrene			Not detected	50.0	Not detected	5.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

Report Date: 8/3/2006
Client Project ID: 49 Dupont St.
York Project No.: 06070674

Notes for York Project No. 06070674

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ **Date:** 8/3/2006
Robert Q. Bradley
Managing Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

06070674

Company Name	Report To:	Invoice To:	Project ID/No.	
ASR 62 Williams St NY NY 10005	Steve M-	ASR	49 Dupont ST Bklyn	Samples Collected By (Signature): [signature] Name (Printed): Anthony Adesso

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	MW-1	7/24	X				8270 BN 8260 STCFS	1 Amber 2 VOL
	MW-2							
	MW-3							
	MW-4							
	MW-5							
	MW-6							
	MW-7							
	MW-8							

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by [signature]	7/25 Date/Time	Sample Received by [signature]	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	7/25 4:30 Date/Time

Comments/Special Instructions

4.2°C

Turn-Around Time

____Standard ____RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

06010674

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
ASR 62 William St NY NY 10005	Steve M.	ASR	49 Dupont St Bklyn	Anthony Adesso

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	MW-9	7/25	X				8270 BN - 8260 STEX	1 amber 2 vol
	MW-10	"	"				"	"
	~~[illegible]~~	"	~~[illegible]~~				~~[illegible]~~	~~[illegible]~~

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
		[signature]	7/25	[signature]	7/25 0
Bottles Received in Field by	**Date/Time**	**Sample Relinquished by**	**Date/Time**	**Sample Received in LAB by**	**Date/Time**
				[signature]	7/25 1430

Comments/Special Instructions

4.2°C

Turn-Around Time

____Standard ____RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 9/27/2006
Re: Client Project ID: 49 Dupont St, Bklyn
York Project No.: 06090661

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 9/27/2006
Client Project ID: 49 Dupont St., Bklyn
York Project No.: 06090661

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 09/19/06. The project was identifed as your project "49 Dupont St., Bklyn ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-11		MW-12	
York Sample ID			06090661-01		06090661-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	Not detected	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	5	Not detected	5
Isopropylbenzene			Not detected	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			Not detected	5	8	5
n-Butylbenzene			Not detected	5	Not detected	5
n-Propylbenzene			Not detected	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			Not detected	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			Not detected	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5

YORK

Client Sample ID			MW-11		MW-12	
York Sample ID			06090661-01		06090661-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables water	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
2,4-Dinitrotoluene			Not detected	5.0	Not detected	5.0
2,6-Dinitrotoluene			Not detected	5.0	Not detected	5.0
2-Chloronaphthalene			Not detected	5.0	Not detected	5.0
2-Methylnaphthalene			Not detected	5.0	Not detected	5.0
2-Nitroaniline			Not detected	5.0	Not detected	5.0
3,3'-Dichlorobenzidine			Not detected	5.0	Not detected	5.0
3-Nitroaniline			Not detected	5.0	Not detected	5.0
4-Bromophenyl phenyl ether			Not detected	5.0	Not detected	5.0
4-Chloroaniline			Not detected	5.0	Not detected	5.0
4-Chlorophenyl phenyl ether			Not detected	5.0	Not detected	5.0
4-Nitroaniline			Not detected	5.0	Not detected	5.0
Acenaphthene			Not detected	5.0	Not detected	5.0
Acenaphthylene			Not detected	5.0	Not detected	5.0
Anthracene			Not detected	5.0	Not detected	5.0
Benzo(a)anthracene			Not detected	5.0	Not detected	5.0
Benzo(a)pyrene			Not detected	5.0	Not detected	5.0
Benzo(b)fluoranthene			Not detected	5.0	Not detected	5.0
Benzo(g,h,i)perylene			Not detected	5.0	Not detected	5.0
Benzo(k)fluoranthene			Not detected	5.0	Not detected	5.0
Bis(2-chloroethoxy)methane			Not detected	5.0	Not detected	5.0
Bis(2-chloroethyl)ether			Not detected	5.0	Not detected	5.0
Bis(2-chloroisopropyl)ether			Not detected	5.0	Not detected	5.0
Bis(2-ethylhexyl)phthalate			Not detected	5.0	Not detected	5.0
Butyl benzyl phthalate			Not detected	5.0	17	5.0
Carbazole			Not detected	5.0	Not detected	5.0
Chrysene			Not detected	5.0	Not detected	5.0
Dibenzo(a,h)anthracene			Not detected	5.0	Not detected	5.0
Dibenzofuran			Not detected	5.0	Not detected	5.0
Diethylphthalate			Not detected	5.0	Not detected	5.0
Dimethylphthalate			Not detected	5.0	Not detected	5.0
Di-n-butylphthalate			Not detected	5.0	Not detected	5.0
Di-n-octylphthalate			Not detected	5.0	Not detected	5.0
Fluoranthene			Not detected	5.0	Not detected	5.0
Fluorene			Not detected	5.0	Not detected	5.0
Hexachlorobenzene			Not detected	5.0	Not detected	5.0
Hexachlorobutadiene			Not detected	5.0	Not detected	5.0
Hexachlorocyclopentadiene			Not detected	5.0	Not detected	5.0
Hexachloroethane			Not detected	5.0	Not detected	5.0
Indeno(1,2,3-cd)pyrene			Not detected	5.0	Not detected	5.0
Isophorone			Not detected	5.0	Not detected	5.0
Naphthalene			Not detected	5.0	Not detected	5.0
Nitrobenzene			Not detected	5.0	Not detected	5.0
N-Nitrosodi-n-propylamine			Not detected	5.0	Not detected	5.0
N-Nitrosodiphenylamine			Not detected	5.0	Not detected	5.0
Phenanthrene			Not detected	5.0	Not detected	5.0
Pyrene			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			MW-13		MW-14	
York Sample ID			06090661-03		06090661-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	Not detected	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	5	Not detected	5
Isopropylbenzene			Not detected	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			Not detected	5	Not detected	5
n-Butylbenzene			Not detected	5	Not detected	5
n-Propylbenzene			Not detected	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			Not detected	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			Not detected	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5
Base/Neutral Extractables water	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	5.25
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.25
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.25
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.25
2,4-Dinitrotoluene			Not detected	5.0	Not detected	5.25
2,6-Dinitrotoluene			Not detected	5.0	Not detected	5.25
2-Chloronaphthalene			Not detected	5.0	Not detected	5.25
2-Methylnaphthalene			Not detected	5.0	Not detected	5.25
2-Nitroaniline			Not detected	5.0	Not detected	5.25
3,3'-Dichlorobenzidine			Not detected	5.0	Not detected	5.25
3-Nitroaniline			Not detected	5.0	Not detected	5.25
4-Bromophenyl phenyl ether			Not detected	5.0	Not detected	5.25
4-Chloroaniline			Not detected	5.0	Not detected	5.25
4-Chlorophenyl phenyl ether			Not detected	5.0	Not detected	5.25
4-Nitroaniline			Not detected	5.0	Not detected	5.25
Acenaphthene			Not detected	5.0	Not detected	5.25
Acenaphthylene			Not detected	5.0	Not detected	5.25
Anthracene			Not detected	5.0	Not detected	5.25
Benzo(a)anthracene			Not detected	5.0	Not detected	5.25
Benzo(a)pyrene			Not detected	5.0	Not detected	5.25
Benzo(b)fluoranthene			Not detected	5.0	Not detected	5.25
Benzo(g,h,i)perylene			Not detected	5.0	Not detected	5.25
Benzo(k)fluoranthene			Not detected	5.0	Not detected	5.25
Bis(2-chloroethoxy)methane			Not detected	5.0	Not detected	5.25
Bis(2-chloroethyl)ether			Not detected	5.0	Not detected	5.25
Bis(2-chloroisopropyl)ether			Not detected	5.0	Not detected	5.25
Bis(2-ethylhexyl)phthalate			Not detected	5.0	Not detected	5.25
Butyl benzyl phthalate			Not detected	5.0	Not detected	5.25
Carbazole			Not detected	5.0	Not detected	5.25
Chrysene			Not detected	5.0	Not detected	5.25
Dibenzo(a,h)anthracene			Not detected	5.0	Not detected	5.25
Dibenzofuran			Not detected	5.0	Not detected	5.25

YORK

Client Sample ID			MW-13		MW-14	
York Sample ID			06090661-03		06090661-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Diethylphthalate			Not detected	5.0	Not detected	5.25
Dimethylphthalate			Not detected	5.0	Not detected	5.25
Di-n-butylphthalate			Not detected	5.0	Not detected	5.25
Di-n-octylphthalate			Not detected	5.0	Not detected	5.25
Fluoranthene			Not detected	5.0	Not detected	5.25
Fluorene			Not detected	5.0	Not detected	5.25
Hexachlorobenzene			Not detected	5.0	Not detected	5.25
Hexachlorobutadiene			Not detected	5.0	Not detected	5.25
Hexachlorocyclopentadiene			Not detected	5.0	Not detected	5.25
Hexachloroethane			Not detected	5.0	Not detected	5.25
Indeno(1,2,3-cd)pyrene			Not detected	5.0	Not detected	5.25
Isophorone			Not detected	5.0	Not detected	5.25
Naphthalene			Not detected	5.0	Not detected	5.25
Nitrobenzene			Not detected	5.0	Not detected	5.25
N-Nitrosodi-n-propylamine			Not detected	5.0	Not detected	5.25
N-Nitrosodiphenylamine			Not detected	5.0	Not detected	5.25
Phenanthrene			Not detected	5.0	Not detected	5.25
Pyrene			Not detected	5.0	Not detected	5.25

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06090661

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 9/27/2006

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

06090061

Company Name	Report To:	Invoice To:	Project ID/No.	
Advanced Site Restoration	Steve M	ASR	49 Dupont St BKLYN	Samples Collected By (Signature): [signature] Name (Printed): Anthony Adesso

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	MW-11	9/18	X				8270 BN	1 Amber
	MW-11		X				8260 STCS	2 vols
	MW-12		X				8270 BN	1 Amber
	MW-12		X				8260 STCS	2 vols
	MW-13		X				8270 BN	1 amber
	MW-13		X				8260 STCS	2 vols
	MW-14		X				8270 BN	1 Amber
	MW-14		X				8260 STCS	2 vols

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by [signature]	9/18/06 Date/Time	Sample Received by [signature]	9/19/06 Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	9/19 3:12 Date/Time

Comments/Special Instructions 4.2.c

Turn-Around Time
____Standard ____RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 8/1/2006
Re: Client Project ID: 49 Dupont St., Brooklyn, NY
York Project No.: 06070673

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 8/1/2006
Client Project ID: 49 Dupont St., Brooklyn, NY
York Project No.: 06070673

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/25/06. The project was identifed as your project "49 Dupont St., Brooklyn, NY".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			5-10' ASR-11		10-15' ASR-11	
York Sample ID			06070673-01		06070673-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	10
1,3,5-Trimethylbenzene			Not detected	10	Not detected	10
Benzene			Not detected	2.0	Not detected	2.0
Ethylbenzene			Not detected	10	Not detected	10
Isopropylbenzene			Not detected	10	Not detected	10
Methyl-tert-butyl ether			Not detected	10	Not detected	10
Naphthalene			Not detected	10	Not detected	10
n-Butylbenzene			Not detected	10	Not detected	10
n-Propylbenzene			Not detected	10	Not detected	10
o-Xylene			Not detected	10	Not detected	10
p- & m- Xylenes			Not detected	10	Not detected	10
p-Isopropyltoluene			Not detected	10	Not detected	10
sec-Butylbenzene			Not detected	10	Not detected	10
tert-Butylbenzene			Not detected	10	Not detected	10
Toluene			Not detected	10	Not detected	10

YORK

Client Sample ID			5-10' ASR-11		10-15' ASR-11	
York Sample ID			06070673-01		06070673-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	190	165

YORK

Client Sample ID			ASR-11	
York Sample ID			06070673-03	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-STARS List	SW846-8260	ug/L	---	---
1,2,4-Trimethylbenzene			Not detected	5
1,3,5-Trimethylbenzene			Not detected	5
Benzene			2	1
Ethylbenzene			Not detected	5
Isopropylbenzene			Not detected	5
Methyl-tert-butyl ether			Not detected	5
Naphthalene			Not detected	5
n-Butylbenzene			Not detected	5
n-Propylbenzene			Not detected	5
o-Xylene			Not detected	5
p- & m- Xylenes			Not detected	5
p-Isopropyltoluene			Not detected	5
sec-Butylbenzene			Not detected	5
tert-Butylbenzene			Not detected	5
Toluene			Not detected	5
Base/Neutral Extractables water	SW846-8270	ug/L	---	---
1,2,4-Trichlorobenzene			Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0
2,4-Dinitrotoluene			Not detected	5.0
2,6-Dinitrotoluene			Not detected	5.0
2-Chloronaphthalene			Not detected	5.0
2-Methylnaphthalene			Not detected	5.0
2-Nitroaniline			Not detected	5.0
3,3'-Dichlorobenzidine			Not detected	5.0
3-Nitroaniline			Not detected	5.0
4-Bromophenyl phenyl ether			Not detected	5.0
4-Chloroaniline			Not detected	5.0
4-Chlorophenyl phenyl ether			Not detected	5.0
4-Nitroaniline			Not detected	5.0
Acenaphthene			Not detected	5.0
Acenaphthylene			Not detected	5.0
Anthracene			Not detected	5.0
Benzo(a)anthracene			Not detected	5.0
Benzo(a)pyrene			Not detected	5.0
Benzo(b)fluoranthene			Not detected	5.0
Benzo(g,h,i)perylene			Not detected	5.0
Benzo(k)fluoranthene			Not detected	5.0
Bis(2-chloroethoxy)methane			Not detected	5.0
Bis(2-chloroethyl)ether			Not detected	5.0
Bis(2-chloroisopropyl)ether			Not detected	5.0
Bis(2-ethylhexyl)phthalate			18	5.0
Butyl benzyl phthalate			Not detected	5.0
Carbazole			Not detected	5.0
Chrysene			Not detected	5.0
Dibenzo(a,h)anthracene			Not detected	5.0
Dibenzofuran			Not detected	5.0

YORK

Client Sample ID			ASR-11	
York Sample ID			06070673-03	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Diethylphthalate			Not detected	5.0
Dimethylphthalate			Not detected	5.0
Di-n-butylphthalate			Not detected	5.0
Di-n-octylphthalate			Not detected	5.0
Fluoranthene			Not detected	5.0
Fluorene			Not detected	5.0
Hexachlorobenzene			Not detected	5.0
Hexachlorobutadiene			Not detected	5.0
Hexachlorocyclopentadiene			Not detected	5.0
Hexachloroethane			Not detected	5.0
Indeno(1,2,3-cd)pyrene			Not detected	5.0
Isophorone			Not detected	5.0
Naphthalene			Not detected	5.0
Nitrobenzene			Not detected	5.0
N-Nitrosodi-n-propylamine			Not detected	5.0
N-Nitrosodiphenylamine			Not detected	5.0
Phenanthrene			Not detected	5.0
Pyrene			Not detected	5.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06070673

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 8/1/2006

YORK

00010673

Page 1 of 1

YORK
ANALYTICAL LABORATORIES, INC.

120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
ASR 62 William St NY NY 10005	Steve M	ASR	49 DuPont ST BKLYN	Anthony Adesso

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
5-10'	ASR-11	7/24/06		X			8270 BN / 8260 STCTS	1802 / 402
10-15'	ASR-11	7/24/06		X			8270 BN / 8260 STCTS	1802 / 402
	ASR 11	7/24	X				8270 BN	1
	ASR 11	7/24	X				8260 STCTS	2 vol

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Sample Relinquished by	7/25 Date/Time	Sample Received by	7/25 06 Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received in LAB by	7/25 4:30 Date/Time

Comments/Special Instructions

4.2°C

Turn-Around Time

____Standard ____RUSH(define)_____

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 8/2/2006
Re: Client Project ID: 49 Dupont St., Brooklyn
York Project No.: 06070672

CT License No. PH-0723 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 8/2/2006
Client Project ID: 49 Dupont St., Brooklyn
York Project No.: 06070672

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/25/06. The project was identifed as your project "49 Dupont St., Brooklyn ".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			5-10' ASR-12		10-15' ASR-12	
York Sample ID			06070672-01		06070672-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles- STARS List	SW846-8260	ug/Kg	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	10	Not detected	130
1,3,5-Trimethylbenzene			Not detected	10	Not detected	130
Benzene			Not detected	2.0	Not detected	25
Ethylbenzene			Not detected	10	Not detected	130
Isopropylbenzene			Not detected	10	Not detected	130
Methyl-tert-butyl ether			Not detected	10	Not detected	130
Naphthalene			Not detected	10	Not detected	130
n-Butylbenzene			Not detected	10	Not detected	130
n-Propylbenzene			Not detected	10	Not detected	130
o-Xylene			Not detected	10	Not detected	130
p- & m- Xylenes			Not detected	10	Not detected	130
p-Isopropyltoluene			Not detected	10	Not detected	130
sec-Butylbenzene			Not detected	10	Not detected	130
tert-Butylbenzene			Not detected	10	Not detected	130
Toluene			Not detected	10	Not detected	130

YORK

Client Sample ID			5-10' ASR-12		10-15' ASR-12	
York Sample ID			06070672-01		06070672-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	165	Not detected	165
1,2-Dichlorobenzene			Not detected	165	Not detected	165
1,3-Dichlorobenzene			Not detected	165	Not detected	165
1,4-Dichlorobenzene			Not detected	165	Not detected	165
2,4-Dinitrotoluene			Not detected	165	Not detected	165
2,6-Dinitrotoluene			Not detected	165	Not detected	165
2-Chloronaphthalene			Not detected	165	Not detected	165
2-Methylnaphthalene			Not detected	165	Not detected	165
2-Nitroaniline			Not detected	165	Not detected	165
3,3'-Dichlorobenzidine			Not detected	165	Not detected	165
3-Nitroaniline			Not detected	165	Not detected	165
4-Bromophenyl phenyl ether			Not detected	165	Not detected	165
4-Chloroaniline			Not detected	165	Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165	Not detected	165
4-Nitroaniline			Not detected	165	Not detected	165
Acenaphthene			Not detected	165	Not detected	165
Acenaphthylene			Not detected	165	Not detected	165
Anthracene			Not detected	165	Not detected	165
Benzo(a)anthracene			Not detected	165	Not detected	165
Benzo(a)pyrene			Not detected	165	Not detected	165
Benzo(b)fluoranthene			Not detected	165	Not detected	165
Benzo(g,h,i)perylene			Not detected	165	Not detected	165
Benzo(k)fluoranthene			Not detected	165	Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165	Not detected	165
Bis(2-chloroethyl)ether			Not detected	165	Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165	Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165	Not detected	165
Butyl benzyl phthalate			Not detected	165	Not detected	165
Carbazole			Not detected	165	Not detected	165
Chrysene			Not detected	165	Not detected	165
Dibenzo(a,h)anthracene			Not detected	165	Not detected	165
Dibenzofuran			Not detected	165	Not detected	165
Diethylphthalate			Not detected	165	Not detected	165
Dimethylphthalate			Not detected	165	Not detected	165
Di-n-butylphthalate			Not detected	165	Not detected	165
Di-n-octylphthalate			Not detected	165	Not detected	165
Fluoranthene			Not detected	165	Not detected	165
Fluorene			Not detected	165	Not detected	165
Hexachlorobenzene			Not detected	165	Not detected	165
Hexachlorobutadiene			Not detected	165	Not detected	165
Hexachlorocyclopentadiene			Not detected	165	Not detected	165
Hexachloroethane			Not detected	165	Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165	Not detected	165
Isophorone			Not detected	165	Not detected	165
Naphthalene			Not detected	165	Not detected	165
Nitrobenzene			Not detected	165	Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165	Not detected	165
N-Nitrosodiphenylamine			Not detected	165	Not detected	165
Phenanthrene			Not detected	165	Not detected	165
Pyrene			Not detected	165	Not detected	165

YORK

Client Sample ID			ASR-12	
York Sample ID			06070672-03	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles-STARS List	SW846-8260	ug/L	---	---
1,2,4-Trimethylbenzene			Not detected	500
1,3,5-Trimethylbenzene			Not detected	500
Benzene			Not detected	100
Ethylbenzene			Not detected	500
Isopropylbenzene			Not detected	500
Methyl-tert-butyl ether			Not detected	500
Naphthalene			2300	500
n-Butylbenzene			Not detected	500
n-Propylbenzene			Not detected	500
o-Xylene			Not detected	500
p- & m- Xylenes			Not detected	500
p-Isopropyltoluene			Not detected	500
sec-Butylbenzene			Not detected	500
tert-Butylbenzene			Not detected	500
Toluene			Not detected	500
Base/Neutral Extractables water	SW846-8270	ug/L	---	---
1,2,4-Trichlorobenzene			Not detected	25.0
1,2-Dichlorobenzene			Not detected	25.0
1,3-Dichlorobenzene			Not detected	25.0
1,4-Dichlorobenzene			Not detected	25.0
2,4-Dinitrotoluene			Not detected	25.0
2,6-Dinitrotoluene			Not detected	25.0
2-Chloronaphthalene			Not detected	25.0
2-Methylnaphthalene			210	25.0
2-Nitroaniline			Not detected	25.0
3,3'-Dichlorobenzidine			Not detected	25.0
3-Nitroaniline			Not detected	25.0
4-Bromophenyl phenyl ether			Not detected	25.0
4-Chloroaniline			Not detected	25.0
4-Chlorophenyl phenyl ether			Not detected	25.0
4-Nitroaniline			Not detected	25.0
Acenaphthene			Not detected	25.0
Acenaphthylene			Not detected	25.0
Anthracene			Not detected	25.0
Benzo(a)anthracene			Not detected	25.0
Benzo(a)pyrene			Not detected	25.0
Benzo(b)fluoranthene			Not detected	25.0
Benzo(g,h,i)perylene			Not detected	25.0
Benzo(k)fluoranthene			Not detected	25.0
Bis(2-chloroethoxy)methane			Not detected	25.0
Bis(2-chloroethyl)ether			Not detected	25.0
Bis(2-chloroisopropyl)ether			Not detected	25.0
Bis(2-ethylhexyl)phthalate			Not detected	25.0
Butyl benzyl phthalate			Not detected	25.0
Carbazole			Not detected	25.0
Chrysene			Not detected	25.0
Dibenzo(a,h)anthracene			Not detected	25.0
Dibenzofuran			Not detected	25.0

YORK

Client Sample ID			ASR-12	
York Sample ID			06070672-03	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Diethylphthalate			Not detected	25.0
Dimethylphthalate			Not detected	25.0
Di-n-butylphthalate			Not detected	25.0
Di-n-octylphthalate			Not detected	25.0
Fluoranthene			Not detected	25.0
Fluorene			Not detected	25.0
Hexachlorobenzene			Not detected	25.0
Hexachlorobutadiene			Not detected	25.0
Hexachlorocyclopentadiene			Not detected	25.0
Hexachloroethane			Not detected	25.0
Indeno(1,2,3-cd)pyrene			Not detected	25.0
Isophorone			Not detected	25.0
Naphthalene			210	25.0
Nitrobenzene			Not detected	25.0
N-Nitrosodi-n-propylamine			Not detected	25.0
N-Nitrosodiphenylamine			Not detected	25.0
Phenanthrene			Not detected	25.0
Pyrene			Not detected	25.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 06070672

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 8/2/2006

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Q00706612

Company Name	Report To:	Invoice To:	Project ID/No.	
ASR 62 Williams St NY NY 10005	Steve	ASR	49 Dupont St BKLYN	Samples Collected By (Signature): [signature] Name (Printed): Anthony Adesso

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
5-10'	ASR-12	7/24		X			8270 BN / 8260 STCUS	1 8oz / 4oz
10-11'	" "	7/24		X			" "	1 8oz / 4oz
		7/24	X				8270 BN	1 amber
		7/24	X				8260 STCUS	2 VOL

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	[signature] Sample Relinquished by	7/25/06 Date/Time	7/25/06 Sample Received by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	[signature] Sample Received in LAB by	7/26 4:00 Date/Time

Comments/Special Instructions

4.2°C

Turn-Around Time

____Standard ____RUSH(define)_____

APPENDIX - E

Manifests

Land Disposal Restriction & Certification Form

Please check the appropriate facility:

☐ **Michigan Disposal Waste Treatment Plant**	49350 N. I-94 Service Drive, Belleville, MI 48111	EPA ID # MID 000 724 831
☐ **Wayne Disposal, Inc. Site #2 Landfill**	49350 N. I-94 Service Drive, Belleville, MI 48111	EPA ID # MID 048 090 633
☒ **EQ Detroit, Inc.**	1923 Frederick Street, Detroit, MI 48211	EPA ID # MID 980 991 566
☐ **EQ Resource Recovery, Inc.**	36345 Van Born Road, Romulus, MI 48174	EPA ID # MID 060 975 844
☐ **EQ North Carolina**	1005 Investment Blvd, Apex, NC 27502	EPA ID # NCD 982 170 292
☐ **EQ Florida, Inc.**	7202 East 8th Ave, Tampa, FL 33619	EPA ID # FLD 981 932 494

Generator Name: Nu Hart & Company **U.S. EPA ID No.:** NYD 001468354

Generator Address: 49-55 DuPont Avenue, Brooklyn, NY 11222

State Manifest No.: 00129324S **Manifest Doc. No.:** 00129324S

Instructions

Column 1: Identify all U.S. EPA hazardous waste codes that apply to this waste shipment.
Column 2: Choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
Column 3: Enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49 (c) – soil, or 268.45 – debris.
Column 4: Enter the letter of the appropriate paragraph from pages 1-2 of this form.
Column 5: For F001 – F005, F039, D001 – D043, Debris and Contaminated Soil: please enter the Reference Number(s) for any constituents in your waste stream subject to treatment. The Reference Number(s) can be found in the EQ Resource Guide, LDR/UHC Constituent Table.

Manifest Line Item	U.S. EPA Hazardous Waste Code (s)	NWW or WW	Subcategory	How Must the Waste be Managed?	Reference Number(s) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil and Debris wastes.
11A	U028	NWW	N/A	A	None
11B	U028	NWW	N/A	~~A~~ S	None
11C					
11D					

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

Generator Signature: REP. FOR OWNER **Title:** REP. FOR OWNER

Printed Name: E. VALANEZ **Date:** 2/14/07

How Must the Waste Be Managed?

S. THIS CONTAMINATED SOIL *DOES / DOES NOT* CONTAIN LISTED HAZARDOUS WASTE AND *DOES / DOES NOT* EXHIBIT A CHARACTERISTIC OF HAZARDOUS WASTE AND *IS SUBJECT TO / COMPLIES WITH* THE SOIL TREATMENT STANDARDS AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(CIRCLE ONE) (CIRCLE ONE) (CIRCLE ONE)

Land Disposal Restriction & Certification Form

Please check the appropriate facility:

☐ **Michigan Disposal Waste Treatment Plant**	49350 N. I-94 Service Drive, Belleville, MI 48111	EPA ID # MID 000 724 831
☐ **Wayne Disposal, Inc. Site #2 Landfill**	49350 N. I-94 Service Drive, Belleville, MI 48111	EPA ID # MID 048 090 633
☒ **EQ Detroit, Inc.**	1923 Frederick Street, Detroit, MI 48211	EPA ID # MID 980 991 566
☐ **EQ Resource Recovery, Inc.**	36345 Van Born Road, Romulus, MI 48174	EPA ID # MID 060 975 844
☐ **EQ North Carolina**	1005 Investment Blvd, Apex, NC 27502	EPA ID # NCD 982 170 292
☐ **EQ Florida, Inc.**	7202 East 8th Ave, Tampa, FL 33619	EPA ID # FLD 981 932 494

Generator Name: Nu Hart & Company **U.S. EPA ID No.:** NYD 001468354

Generator Address: 49-55 DuPont Avenue, Brooklyn, NY 11222

State Manifest No.: 00129324S **Manifest Doc. No.:** 00129324S

Instructions

Column 1: Identify all U.S. EPA hazardous waste codes that apply to this waste shipment.
Column 2: Choose the appropriate treatability group: Non-Wastewater (NWW) or Wastewater (WW).
Column 3: Enter the appropriate Subcategory, if applicable, and also enter "Contaminated Soil" or "Debris" if the waste will be treated using one of the alternative treatment technologies provided by 268.49 (c) – soil, or 268.45 – debris.
Column 4: Enter the letter of the appropriate paragraph from pages 1-2 of this form.
Column 5: For F001 – F005, F039, D001 – D043, Debris and Contaminated Soil: please enter the Reference Number(s) for any constituents in your waste stream subject to treatment. The Reference Number(s) can be found in the EQ Resource Guide, LDR/UHC Constituent Table.

Manifest Line Item	U.S. EPA Hazardous Waste Code (s)	NWW or WW	Subcategory	How Must the Waste be Managed?	Reference Number(s) of Hazardous Constituents contained in the waste. Complete for F001-F005, F039, D001-D043, Soil and Debris wastes.
11A	U028	NWW	N/A	A	None
11B	U028	NWW	N/A	~~B~~ S	None
11C					
11D					

I hereby certify that all information submitted on this and all associated documents is complete and accurate to the best of my knowledge and information.

Generator Signature: REP. FOR OWNER **Title:** REP. FOR OWNER

Printed Name: E. Vazquez **Date:** 2/14/07

How Must the Waste Be Managed?

S. THIS CONTAMINATED SOIL *DOES / DOES NOT* CONTAIN LISTED HAZARDOUS WASTE AND *DOES / DOES NOT* EXHIBIT A CHARACTERISTIC OF HAZARDOUS WASTE AND *IS SUBJECT TO / COMPLIES WITH* THE SOIL TREATMENT STANDARDS AS PROVIDED BY 268.49(c) OR THE UNIVERSAL TREATMENT STANDARDS. I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.49 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment.

(CIRCLE ONE) (CIRCLE ONE) (CIRCLE ONE)

10803-11

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD001468354
2. Page 1 of: 1
3. Emergency Response Phone: 631 519 5800
4. Manifest Tracking Number: 001293018 JJK

GENERATOR

5. Generator's Name and Mailing Address: MD-HART & COMPANY, 345 BAYSHORE RD, DEER PARK, NY 11729
Generator's Phone: 631 586 9441
Generator's Site Address (if different than mailing address): 49-55 DUPONT AVE, BROOKLYN, NY 11222

6. Transporter 1 Company Name: US ENVIRONMENTAL, INC
U.S. EPA ID Number: PAR 000574041

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: E.I. DUPONT DE NEMOURS, CHAMBERS WORKS - ROUTE 130, DEPTFORD, NJ 08085
Facility's Phone: 856 540-2773
U.S. EPA ID Number: NJD002385730

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit WT./Vol.	13. Waste Codes		
X	1. RQ HAZARDOUS WASTE, LIQUID, N.O.S. (ACETONE), 9, NA3082, PG III, (D002), ERG 171	1	TT	1310	G	D002		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1) L: APPROVAL# 01J10883
REL 1
B/L 37505

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible]
Signature:
Month Day Year

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Transporter signature (for exports only):
Port of entry/exit:
Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: WILLIAM BRANCH
Signature: William Branch
Month 7 Day 7 Year 07
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H129 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month Day Year

[illegible] Company
365 Bayshore Road, P.O. Box 786
Deer Park, NY 11729
Generator's Phone: 631 586-9444

[illegible] Avenue
Brooklyn, NY 11222

6. Transporter 1 Company Name: Freehold Cartage, Inc.
U.S. EPA ID Number: NJD054126164

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
MQ, Detroit, Inc.
1923 Frederick Street
Detroit, MI 48211
Facility's Phone: 313-923-0080
U.S. EPA ID Number: MID980591566

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, Hazardous waste, liquid, n.o.s., (Phthalate), 9, NA3082, PGIII, (U028); ERG#:171	12	DM	750	G	U028		
X	2. Hazardous waste, solid, n.o.s., (Phthalate), 9, NA3077, PGIII, (U028); ERG#:171	3	DM	150	G	U028		
	3. Non-DOT/Non-RCRA Regulated Waste Sludge, (EMCLA Oil Sludge)	53	DM		P	NONE		
	4.							

14. Special Handling Instructions and Additional Information
1) Approval #: A075264DMT/Phthalate Tank Bottom 2) Approval #: A076232DMT/Phthalate Soil Cuttings 3) Approval #: B071007DMT/EMCLA Oil Sludge

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: REP FOR OWNER E. VAZQUEZ
Signature:
Month 2 Day 14 Year 07

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DON Houston
Signature: Don Houston
Month Feb Day 14 Year 2007
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924

BILL OF LADING

FCI EPA ID NO. NJD054126164

R 46558

114 Schoolground Rd. Branford, CT 06405 Phone: (203) 483-5964 Fax: (203) 483-5984	200 Pigeon Point Road New Castle, DE 19720 Phone: (302) 658-2005 Fax: (302) 658-6224	175 Barlow Mem. Airport Bartow, FL 33830 Phone: (863) 533-4599 Fax: (863) 533-1613	5538 Dunham Road Maple Heights, OH 44137 Phone: (330) 609-3473 Fax: (330) 609-0702	108 Monahan Avenue Dunmore, PA 18512 Phone: (570) 342-7232 Fax: (570) 342-7367	40 Boulevard St. Sumter, SC 29150 Phone: (803) 773-2611 Fax: (803) 773-2942

SHIPPER NAME/ADDRESS: NU-HART + COMPANY, 49-55 DUPONT AVE., BROOKLYN, NY 11222

PHONE (AREA CODE): 631-586-1444

NYD011468354

TRACTOR: 775 TRAILER: 410

APPOINTMENT TIME: : OPEN

FCI REP. LOADING (PRINT): DON HOUSTON

PROCEDURE: LIVELOAD

EQUIP. SPOTTED:

EQUIP. REMOVED:

TIME AT SHIPPER: ARRIVAL TIME 13:30 MILITARY TIME ONLY DEPARTURE TIME 15:45

COMMENTS OR DELAYS AT SHIPPER:

EQUIPMENT USED: VAN

BROKER:

PO#: WO#:

MANIFEST/DOCUMENT NO.

(X) HM		PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
	1	MANIFEST #				68	DM				
	2	001293248 JJK									
	3										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION NUMBER: 68 total

SHIPPER'S CERTIFICATION. This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the shipper is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE: REP FOR OWNER E. VAZQUEZ

SHIPPER'S SIGNATURE: X Efrain Vazquez REP FOR OWNER

I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT.

DATE LOADED: Feb 14 2007 (MO. DAY YR.)

CONSIGNEE NAME/ADDRESS: EQ Detroit Inc., Detroit, MI 48211

PHONE (AREA CODE): 313-123-0080

MID981999568

TRACTOR: 775 TRAILER: 410

APPOINTMENT TIME: :

FCI REP. UNLOADING (PRINT):

PROCEDURE: OFF/OAD

EQUIP. SPOTTED:

EQUIP. REMOVED:

TIME AT CONSIGNEE: ARRIVAL TIME : MILITARY TIME ONLY DEPARTURE TIME :

COMMENTS OR DELAYS AT CONSIGNEE:

EQUIPMENT USED: VAN

PLEASE PRINT NAME/TITLE:

CONSIGNEE SIGNATURE: X

DATE UNLOADED: / / (MO. DAY YR.)

AR H-0257	MD HWH-167	MO H-1490	OH UPW-0190713-OH	TX 40705
CT CT-HW-307	2001-OPV-2935	ND WH-429	OK UPW-0190713-OH	WI 11602
DE DE-HW-203	ME ME-HWT-47	NH TNH-0047	ONTARIO, CANADA A 840943	WV UPW-0190713-OH
DE SW-283	ME-WOT-47	NJ S-2265	PA PA-AH-0067	
IL UPW-0190713-OH	MI UPW-0190713-OH	15939	QUEBEC, CANADA QC-SML-047	
MA MA-294	MN UPW-0190713-OH	NY NJ-113	RI RI-535	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer
Green - Retained by TSDF
Gold - Retained by Generator

R 46558

ADVANCED SITE RESTORATION, LLC
ENVIRONMENTAL SERVICES

Quarterly Sampling Report

Third Quarter, 2007

49-55 Dupont Street, Brooklyn, New York 11222
NYSDEC SPILL # 06-01852

Prepared By:

Advanced Site Restoration, LLC
62 William Street, New York, N.Y. 10005

Prepared For:

49 Dupont Realty Corporation
49-55 Dupont St., Brooklyn, New York 11222

Christopher Tomasello, IH
Project Technician

Steven Muller, CEC
Project Manager

November 15, 2007

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2.0 SITE CHARACTERIZATION.....2
2.1 Site Description

3.0 SITE INVESTIGATION RESULTS.....3
3.1 Monitoring Well Gauging
3.2 Monitoring Well Sampling
3.3 Sampling Analysis
3.4 LNAPL Recovery Program

4.0 CONCLUSION.....4

FIGURES

Figure – 1 Site Location Map
Figure – 2 Well Location Map (June 2007)
Figure – 3 Groundwater Gradient Map (August 2006)
Figure – 4 Product Plume Map

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Table – 1 Monitoring Well Gauging Data
Table – 2 Groundwater Dissolved Constituent Sampling
Table – 3 Product Recovery Data

APPENDEXES

Appendix – A Figures
Appendix – B Monthly Monitoring Report
Appendix – C Laboratory Analytical Report

1.0 INTRODUCTION

Advanced Site Restoration, LLC (ASR) has developed this Quarterly Sampling Report on behalf of 49 Dupont Realty Corporation for 49-55 Dupont Street in Brooklyn, New York (the Site). The purpose of this report is to provide an update on the ongoing site investigation and Interim Remedial Measure (IRM) taking place at the Site.

In October, 2007, ASR conducted groundwater monitoring and sampling to provide an updated delineation of the contaminant plume. ASR began the subsurface investigation at the Site in July 2006, and has since performed monthly monitoring and quarterly groundwater sampling. In addition, ASR has performed light, non-aqueous phase liquid (LNAPL) recovery and removal from specially designated recovery wells and monitoring wells.

The October, 2007, groundwater monitoring and sampling data indicates that the contaminant plume is contained and stable. The thickness of LNAPL in the monitoring and recovery wells was found to be decreasing as the LNAPL removal program continues. All groundwater monitoring wells which do not contain LNAPL, including two (2) down gradient wells were sampled and analyzed. The October, 2007, analytical data indicated that no phthalates or VOCs were detected in excess of the laboratory minimum detection limits.

2.0 SITE CHARACTERIZATION

2.1 Site Description

The Site is legally identified as New York City Tax Block 2487, Tax Lots 1, 10, 12, 17, 18, 20, 21, 57, 72, and 78. The current owner since 1983 is 49 Dupont Realty Corporation. The Site is a former manufacturing facility. The New York City Department of Finance Occupancy Code is "F-9, Factory Industrial." According to the Sanborn Map Report from Environmental Data Resources, Inc. (EDR), industrial activity at the Site dates back to at least 1887.

Historic use of the Site has included manufacturing, office, storage, shipping and receiving. More recently, the site had been used as a plastic manufacturing facility since 1950. According to *FPM Group* who completed a Phase I Site Assessment, dated April 2005 for the Site, it is reported that commercial uses prior to 1950 included a boiler shop for Logan Ironworks, two stable buildings, a gas and light fixture factory, a sheet metal works, a soap manufacturer, a water proofing manufacturer, and a scrap metal facility.

3.0 SITE INVESTIGATION RESULTS

3.1 Monitoring Well Gauging

On October 21, 2007, ASR personnel measured the depth to groundwater, and monitored for the presence of LNAPL at the Site and the surrounding monitoring well network. A total of twenty-two (22) monitoring wells were gauged. LNAPL was detected in fifteen (15) of the twenty-two (22) wells (MW-1, MW-4, MW-5, MW-6, MW-7, MW-9, MW-15, MW-16, RW-2, RW-3, RW-4, RW-5, RW-6, and RW-7). The measured thickness of LNAPL in twelve (12) of the fifteen (15) wells ranged from a sheen to 9 inches thick. In MW-5, LNAPL was detected at a thickness of 5.33 ft. In MW-9 and RW-7, LNAPL viscosity prevented an accurate thickness. Based on the monitoring results, the LNAPL plume appears to be contained to the west and northeast sections of the Site. Although LNAPL was detected beneath the sidewalk adjacent to the Site, it was not detected in either of the two (2) down gradient wells, (MW-12 and MW-13).

The depth to groundwater was detected at a range of 7.61 ft to 15.74 ft. A previous groundwater survey indicated that the groundwater flow direction is in a northwesterly direction. The location of all groundwater monitoring wells is shown on the Monitoring Well Location Map, Appendix-A Figure – 2. All monitoring data is attached as Appendix-B, *Monitoring Well Gauging Data.*

3.2 Monitoring Well Sampling

On October 20 and 22, 2007, ASR personnel sampled seven (7) groundwater monitoring wells (MW-2, MW-3, MW-8, MW-10, MW-12, MW-13, and MW-14). New disposable polyethylene tubing was used with a peristaltic pump for groundwater purging and sample collection. The groundwater samples were submitted to York Analytical Laboratories, Inc. for analysis by EPA Method 8270 BN.

On October 24, 2007, ASR personnel returned to the Site to collect groundwater samples from the same seven (7) groundwater monitoring wells. These groundwater samples were also submitted to York Analytical Laboratories, Inc. but were analyzed for volatile organic compounds (VOCs) using EPA Method 8260 Stars. All sampling data is attached in Appendix-C, *Groundwater Dissolved Constituent Sampling.*

3.3 Sampling Analysis

Bis (2-ethylhexyl) Phthalate has historically been detected as both LNAPL and a dissolved constituent in previous groundwater sampling activities. The October, 2007, groundwater analytical results indicated that no phthalates or VOCs were detected in any of the seven (7) groundwater monitoring wells that were sampled.

3.4 LNAPL Recovery Program

An LNAPL removal program was implemented in November, 2006, and has continued through the date of this report. The LNAPL being removed is a combination of plasticizers and #4 fuel oil. LNAPL recovery is occurring at recovery wells RW-2, RW-3, RW-8, RW-9, RW-8, RW-10, and monitoring wells MW-5, and MW-6. Monitoring wells MW-15 and MW-16 were recently added to the LNAPL recovery program and RW-7 was added in October 2007. Approximately 1,100 gallons of LNAPL was removed in the third quarter of 2007 using the *Spillbuster* product only pumps. In November, 2007, an additional 33 gallons of LNAPL was recovered. A total of approximately 4,200 gallons have been removed from the ground as of the date of this report. On August 16, 2007 3,200 gallons of LNAPL were removed from the site using a vacuum truck. The remaining 1,000 gallons are currently being stored on Site, as additional product continues to be recovered from the ground. A vacuum truck will remove all of the LNAPL being stored on Site when it is deemed necessary and efficient to do so.

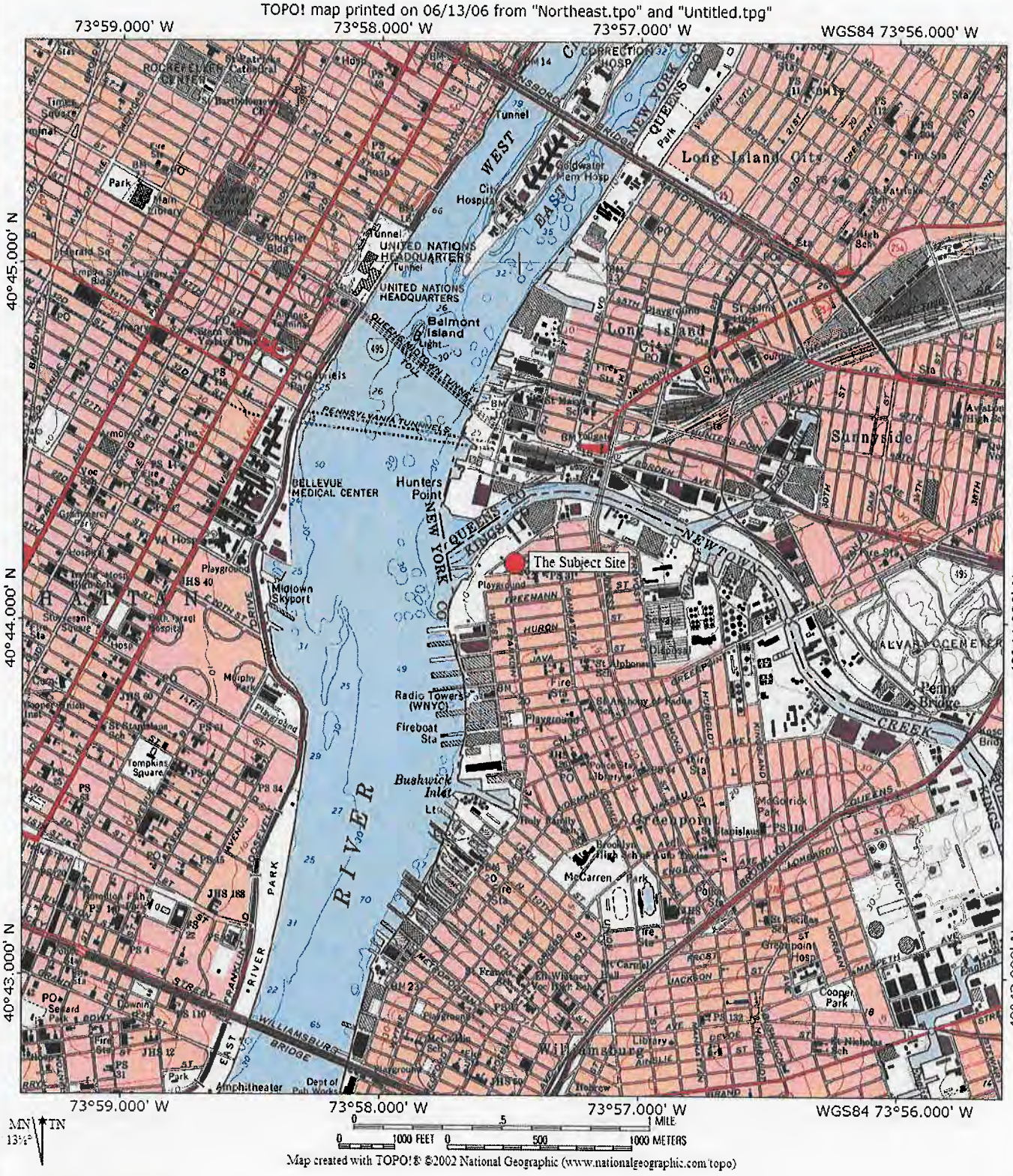
4.0 CONCLUSION

As per the October 2007 groundwater monitoring and sampling activities, the contaminant plume is contained and stable. LNAPL continues to exist at the Site, ranging in thickness from a sheen to several feet. The thickness of LNAPL in the wells were found to be decreasing as the LNAPL recovery program continues. All groundwater monitoring wells not containing LNAPL, including two (2) down gradient monitoring wells, were sampled. Analysis indicated that no phthalates or VOCs were detected in excess of the laboratory minimum detection limits.

ASR will continue to monitor and sample all groundwater monitoring wells to determine the status of the identified contamination. ASR will also continue to perform the product recovery program as the ongoing IRM, and monitor the progress of this program.

APPENDIX – A

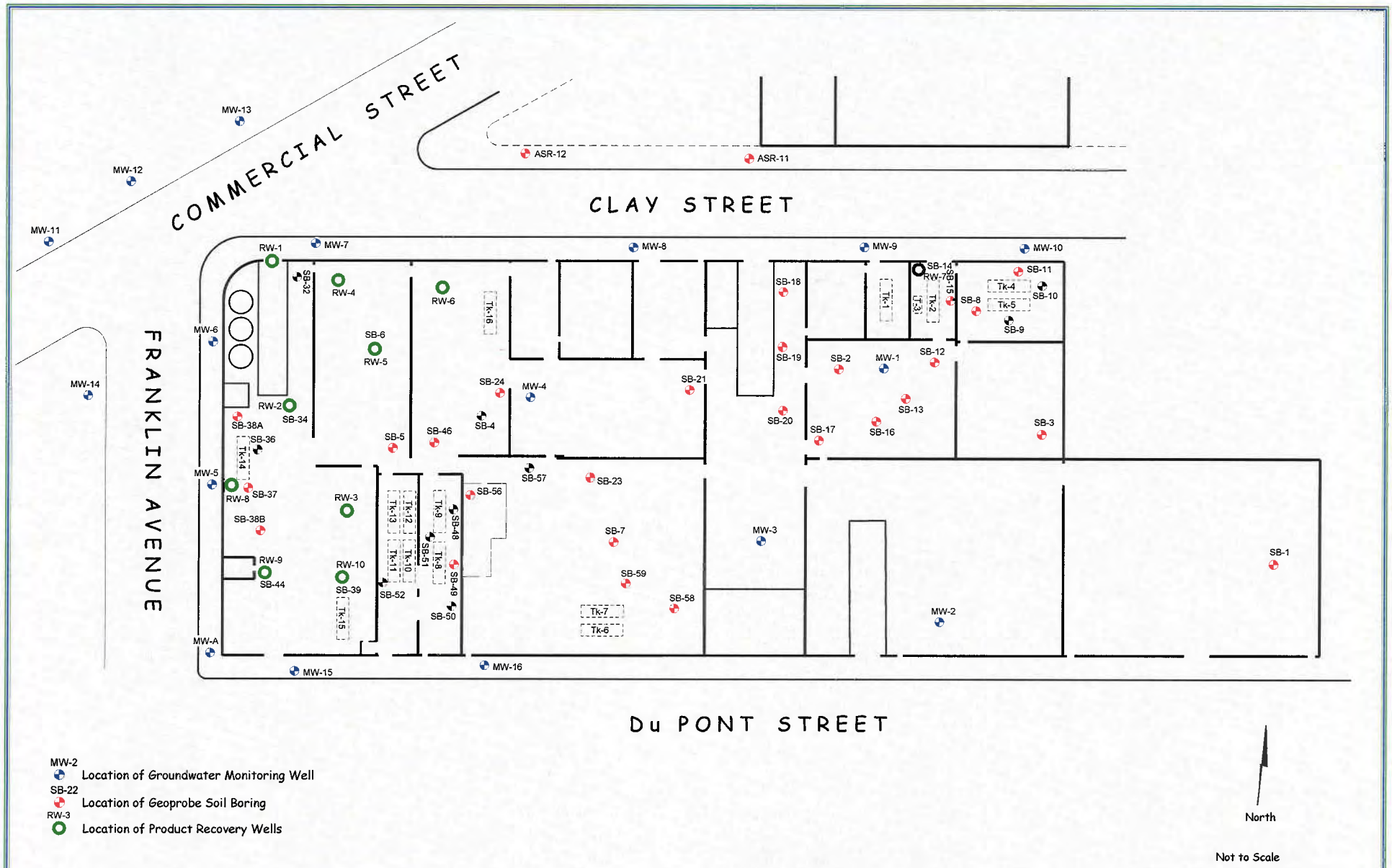
Figures



ADVANCED Site Restoration, LLC.
Environmental Services

62 William St., 3rd Floor, New York, NY 10005
Tel: 212-809-1110 Fax: 212-809-1779 info@askasr.com

Site Location Map
49-55 Dupont Street
Brooklyn, New York 11222



ADVANCED Site Restoration, LLC.
Environmental Services

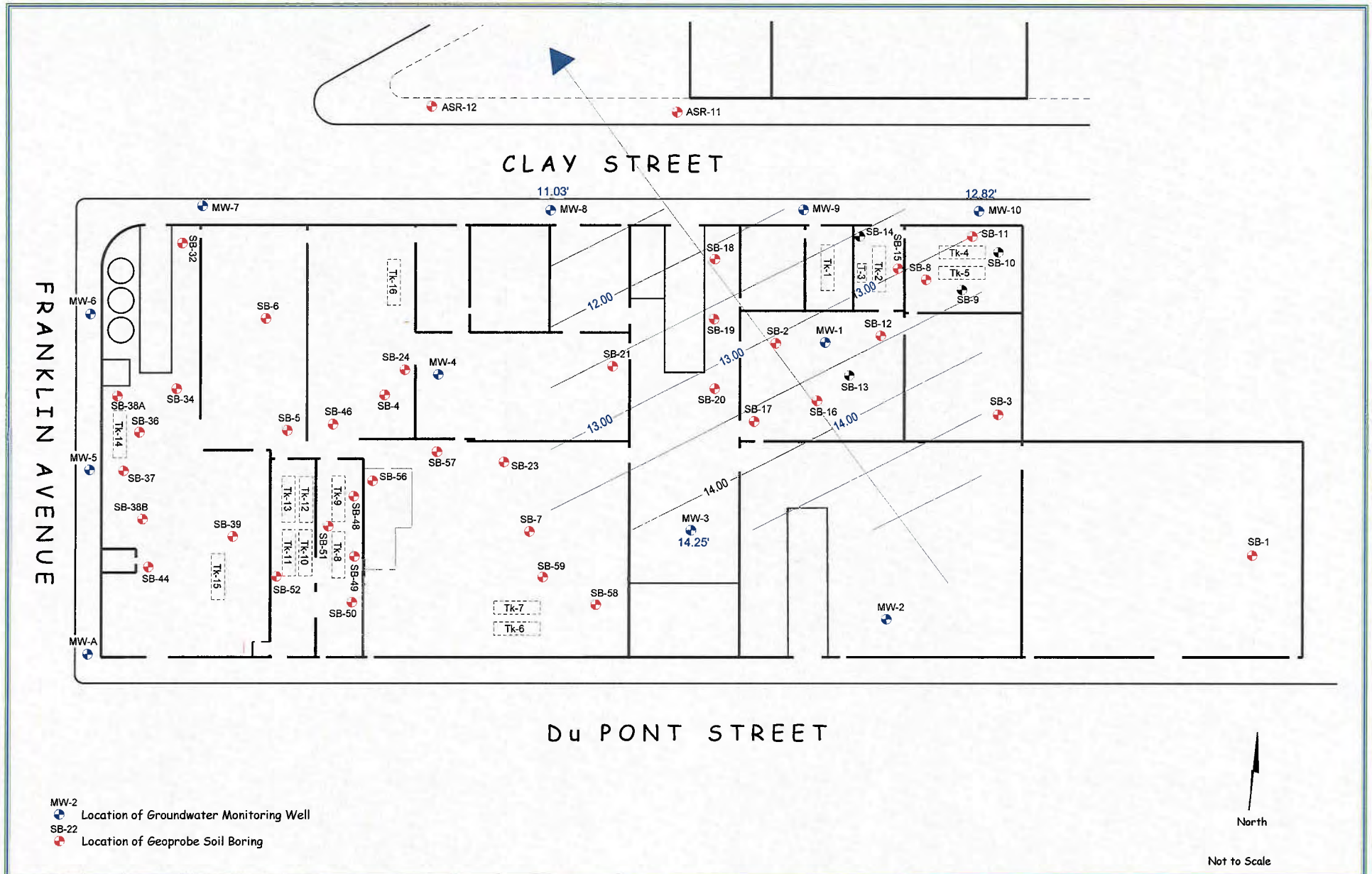
62 William St., 3rd Floor, New York, NY 10005
Tel: 212-809-1110 Fax: 212-809-1779 info@askasr.com

SWM

Figure 1

Borehole & Well Location Map
June 2007

NuHart & Company, Inc.
49 - 55 Dupont Street
Brooklyn, New York



ADVANCED Site Restoration, LLC.
Environmental Services

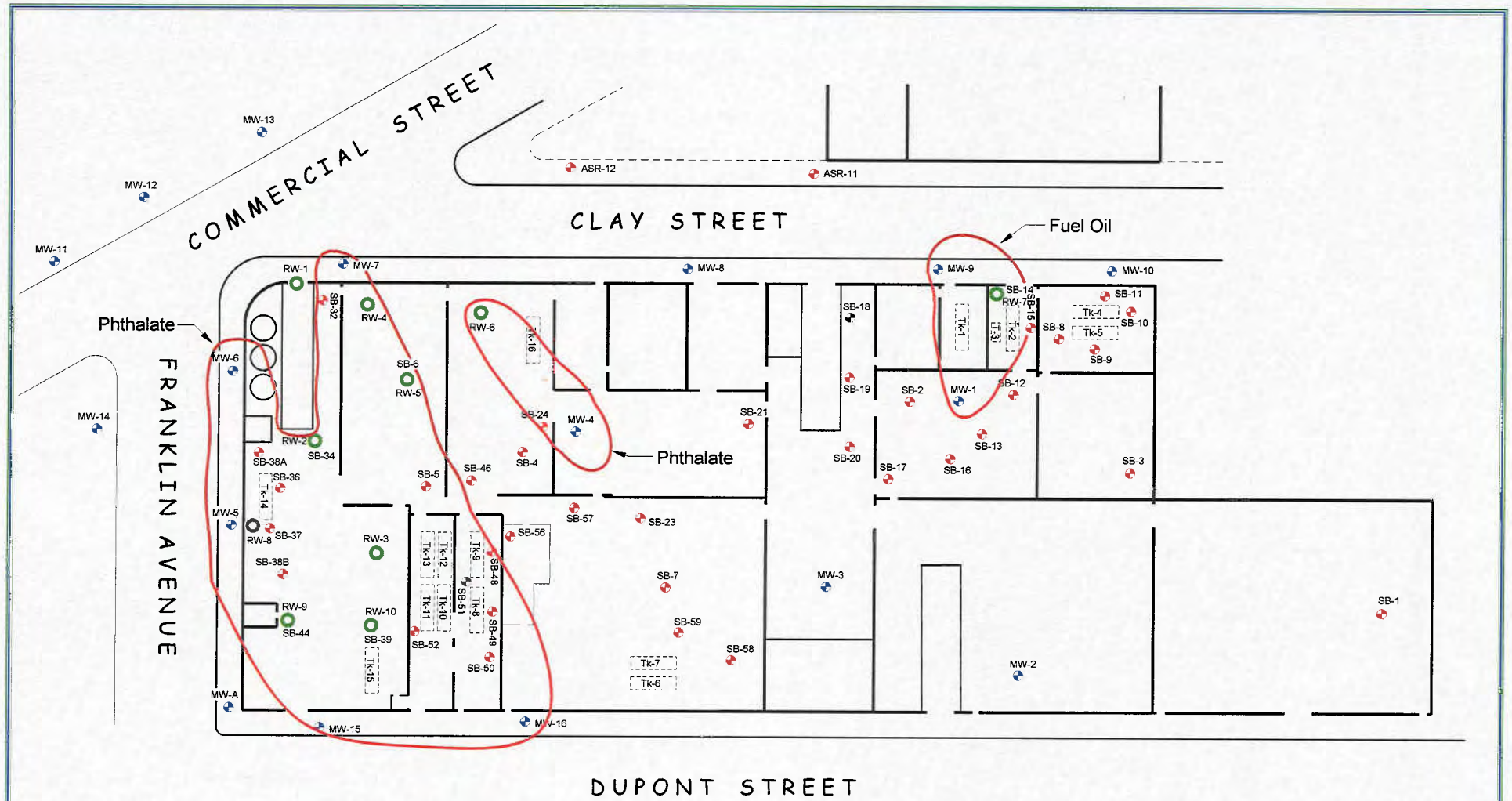
62 William St., 3rd Floor, New York, NY 10005
Tel: 212-809-1110 Fax: 212-809-1779 info@askasr.com

Groundwater Gradient Map
August 1, 2006

SWM

Rev: 08/23/06

49 Dupont Realty Corp.
49 - 55 Dupont Street
Brooklyn, New York



ADVANCED Site Restoration, LLC.
Environmental Services

62 William St., 3rd Floor, New York, NY 10005
Tel: 212-809-1110 Fax: 212-809-1779 info@askasr.com

LNAPL Plume Map
49 - 55 Dupont Street
Brooklyn, New York
Oct., 2007

SWM

MW-2 Location of Groundwater Monitoring Well
SB-22 Location of Geoprobe Soil Boring
RW-3 Location of Product Recovery Wells
Area where LNAPL was detected

North

Not to Scale

APPENDIX – B

Monthly Monitoring Report

ADVANCED SITE RESTORATION, LLC

ENVIRONMENTAL SERVICES

MONTHLY MONITORING REPORT

Site Address:	*NuHart & Company, Inc.* *49- 55 Dupont Street* *Brooklyn, New York*	**Regulatory Agency:** **Regulatory Contact:** **Spill File:**	*NYSDEC (Region II)* *Raphael Katani* *06-01852*
Prepared for:	*49 Dupont Realty Corp.* *Brooklyn, New York*	**Dupont Contact** **ASR Contact**	*Joe Folkman* *Steven Muller*

Report Date *November 15, 2007*

Current Site Status *Former Manufacturing Facility*

Monitoring Period *October, 2007*

Well Information

Number/Type: *15 - 2 inch diameter monitoring wells*
10 - 4 inch diameter recovery wells

Groundwater Monitoring

Gauging Frequency:	*Monthly*	
Sampling Frequency:	*Quarterly*	
Wells containing LNAPL:	*15*	
LNAPL Thickness (max):	*5.33*	*(MW-5)*
Total BTEX:	*<MDL (October, 2007)*	
MtBE:	*<MDL (October, 2007)*	
Groundwater Depth:	*7.61ft to 15.74ft*	
Groundwater Flow Direction:	*Northwesterly*	

Surrounding Land Use:

North:	*Hardware Store/Warehouse*
South:	*Residential Homes*
East:	*Multi-Family Residential Buildings*
West:	*New York City Lot*

Remedial Activities: *An Interum Remedial Measure consisting of two continous operating product only pumps and daily hand bailing is on-going. Approximately 4,200 gallons of product have been removed from the site to date.*

Prepared By: **Christopher Tomasello**

Reviewed By: **Steven Muller**

49 Dupont Street
Brooklyn, New York

Monitoring Well Gauging Data

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-1	5/10/2006	25.19	10.89	10.88	0.01	14.30
	11/20/2006		10.83	10.79	0.04	14.36
	6/18/2007		10.70	10.68	0.02	14.49
	8/13/2007		10.30	10.25	0.05	14.89
	9/24/2007		11.14	11.12	0.02	14.05
	10/21/2007		11.32	11.34	0.02	13.87
MW-2	5/10/2006	25.34	11.78	----	----	13.56
	11/20/2006		NA			
	4/25/2007		7.66			17.68
	5/10/2007		8.64			16.70
	6/18/2007		9.66			15.68
	8/13/2007		8.30			17.04
	9/24/2007		10.20			15.14
	10/21/2007		10.44			14.90
MW-3	5/10/2006	25.52	9.83	----	----	15.69
	8/10/2006		11.27	----	----	14.25
	11/20/2006		NA			
	4/25/2007		10.98			14.54
	5/10/2007		9.50			16.02
	6/18/2007		11.53			13.99
	8/13/2007		11.01			14.51
	9/24/2007		11.94			13.68
	10/21/2007		12.26			13.36
MW-4	5/10/2006	25.62	13.90	12.28	1.62	11.72
	11/20/2006		13.56	12.28	1.28	12.06
	5/10/2007		11.92	11.80	0.12	13.70
	6/18/2007		12.55	12.37	0.18	13.07
	8/13/2007		12.42	12.07	0.35	13.20
	9/24/2007		12.98	12.78	0.20	12.63
	10/21/2007		13.02	13.14	0.12	12.60
MW-5	8/10/2006	19.57	14.90	9.11	5.79	4.67
	11/20/2006		10.30	9.17	1.13	9.27
	5/10/2007		9.29	8.82	0.47	10.28
	6/18/2007		12.25	9.27	2.98	7.32
	8/13/2007		9.70	9.16	0.54	9.87
	9/24/2007		11.79	9.70	2.09	7.78
	10/21/2007		15.04	9.71	5.33	4.43

49 Dupont Street
Brooklyn, New York

Monitoring Well Gauging Data

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-6	8/10/2006	18.62	12.00	8.28	3.72	6.62
	11/20/2006		8.85	8.23	0.62	9.77
	5/10/2007		8.41	7.87	0.54	10.21
	6/18/2007		9.34	9.07	0.27	9.28
	8/13/2007		10.25	8.69	1.56	8.37
	9/24/2007		9.82	9.45	0.37	8.79
	10/21/2007		9.99	9.62	0.37	8.63
MW-7	8/10/2006	18.75	10.52	8.62	1.90	8.23
	11/20/2006		8.80	8.52	0.28	9.95
	5/10/2007		8.33	8.21	0.12	10.42
	6/18/2007		9.12	8.66	0.46	9.63
	8/13/2007		9.50	8.65	0.85	9.25
	9/24/2007		9.71	9.10	0.61	9.04
	10/21/2007		9.48	9.14	0.34	9.27
MW-8	8/10/2006	20.26	9.46	----	----	10.80
	11/20/2006		NA			
	5/10/2007		8.86			11.40
	6/18/2007		9.40			10.86
	8/13/2007		9.45			10.81
	9/24/2007		9.78			10.48
	10/21/2007		10.03			10.23
MW-9	8/10/2006	20.62	10.22	7.88	2.34	10.40
	11/20/2006		LNAPL			
	6/18/2007		too thick			
	8/13/2007		too thick			
	9/24/2007		unknown	8.79		
	10/21/2007		unknown			
MW-10	8/1/2006	21.04	8.22	----	----	12.82
	5/10/2007		7.97			13.07
	6/18/2007		8.25			12.79
	9/24/2007		8.69			12.79
	10/21/2007		8.64			12.40

49 Dupont Street
Brooklyn, New York

Monitoring Well Gauging Data

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-11	9/19/2006	17.01	7.07	----	----	9.94
	11/20/2006					
	5/10/2007		DESTROYED			
MW-12	9/19/2006	16.99	7.10	----	----	9.89
	11/20/2006					
	5/10/2007		6.89			10.10
	8/13/2007		6.57			10.42
	9/24/2007		7.74			9.25
	10/21/2007		7.61			9.38
MW-13	9/19/2006	17.20	7.16	----	----	10.04
	11/20/2006					
	5/10/2007		6.87			10.33
	8/13/2007		6.51			10.69
	9/24/2007		7.89			9.31
	10/21/2007		7.72			9.48
MW-14	9/19/2006	18.23	8.11	----	----	10.12
	11/20/2006					
	5/10/2007		7.60			10.63
	8/13/2007		8.23			10.00
	9/24/2007		8.52			9.71
	10/21/2007		8.61			9.62
MW-15	5/10/2007	NA	10.83	9.35	1.48	
	5/23/2007		9.72	9.70	0.02	
	6/18/2007		10.02	9.93	0.09	
	8/13/2007		9.70	9.16	0.54	
	9/24/2007		10.73	10.32	0.41	
	10/21/2007		10.44	10.37	0.07	
MW-16	5/10/2007	NA	11.07	9.98	1.09	
	5/23/2007		10.54	10.31	0.23	
	6/18/2007		11.27	10.59	0.68	
	8/13/2007		11.81	10.46	1.35	
	9/24/2007		11.03	11.09	0.06	
	10/21/2007		11.16	11.14	0.02	

49 Dupont Street
Brooklyn, New York

Monitoring Well Gauging Data

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-A	8/10/2006	20.30	15.66	9.96	5.70	4.64
	11/20/2006					
	9/24/2007					
RW-1	11/20/2006	NA	8.38			
	4/25/2007		7.57			
	5/10/2007		8.04			
	6/18/2007		8.57			
	9/24/2007		9.10			
	10/21/2007		9.17			
RW-2	4/25/2007	NA	12.46	12.45	0.01	
	5/10/2007		12.91	12.71	0.20	
	10/21/2007		14.09	13.85	0.24	
RW-3	4/25/2007	NA	13.84	13.60	0.24	
	5/10/2007		14.17	14.00	0.17	
	6/18/2007		15.40	14.53	0.87	
	9/24/2007		15.63	14.96	0.67	
	10/21/2007		15.73	15.12	0.51	
RW-4	11/20/2006	NA	16.47	14.49	1.98	----
	4/25/2007		14.15	13.75	0.40	
	5/10/2007		14.44	14.10	0.34	
	6/18/2007		14.85	14.62	0.23	
	9/24/2007		16.87	15.29	1.58	
	10/21/207		15.74	15.45	0.29	
RW-5	11/20/2006	NA	13.64	13.53	0.11	----
	4/25/2007		12.75	12.60	0.15	
	5/10/2007		13.10	13.02	0.08	
	6/18/2007		13.60	13.55	0.05	
	9/24/2007		14.24	13.94	0.30	
	10/21/2007		14.23	14.11	0.12	

49 Dupont Street
Brooklyn, New York

Monitoring Well Gauging Data

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
RW-6	*4/25/2007*	*NA*	*10.69*			
	5/10/2007		*11.08*			
	6/18/2007		*11.58*			
	9/24/2007		*12.77*	*11.94*	*0.83*	
	10/21/2007		*12.92*	*12.11*	*0.81*	
RW-7	*11/20/06*		*LNAPL*			
	9/24/2007		unknown	9.05		
	10/21/2007		unknown			
RW-8	*4/25/2007*	*NA*	*12.60*	*12.35*	*0.25*	
	5/10/2007		*13.11*	*12.78*	*0.33*	
	6/18/2007		*14.36*	*13.25*	*1.11*	
	8/13/2007					
	9/24/2007		*15.95*	*13.65*	*2.30*	
	10/21/207					
RW-9	*4/25/2007*	*NA*	*12.10*	*11.95*	*0.15*	
	5/10/2007		*12.59*	*12.36*	*0.23*	
	6/18/2007		*13.60*	*12.83*	*0.77*	
	8/13/2007					
	9/24/2007		*14.80*	*13.30*	*1.50*	
	10/21/2007					
RW-10	*4/25/2007*	*NA*	*11.76*	*11.64*	*0.12*	
	5/10/2007		*12.13*	*12.05*	*0.08*	
	8/13/2007		*pump*			
	9/24/2007		*pump*			
	10/21/2007		*pump*			

49 Dupont Street
Brooklyn, New York

Groundwater Dissolved Constituent Sampling

Well Number	Sampling Date	Benzene	Toluene	Ethylbenzene	Total Xylene	MtBE	Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate
MW-1	7/24/06	ND	ND	ND	ND	ND	ND	ND
	PRODUCT							
MW-2	7/24/06	ND	ND	ND	ND	ND	60	ND
	7/18/2007	ND	ND	ND	ND	ND	77	ND
	10/24/07	ND	ND	ND	ND	ND	ND	ND
MW-3	7/24/06	ND	ND	ND	ND	ND	31	ND
	7/18/2007	ND	ND	ND	ND	ND	ND	ND
	10/24/07	ND	ND	ND	ND	ND	ND	ND
MW-4	7/24/06	ND	ND	ND	ND	ND	120,000 P	160,000 P
	PRODUCT							
MW-5	7/24/06	ND	ND	ND	ND	ND	780,000 P	90,000 P
	PRODUCT							
MW-6	7/24/06	ND	ND	ND	ND	ND	1,300,000 P	ND
	PRODUCT							
MW-7	7/24/06	ND	ND	ND	ND	ND	370,000 P	ND
	7/18/2007	NT	NT	NT	NT	NT	4,600 P	ND
	PRODUCT							
MW-8	7/24/06	ND	ND	ND	ND	ND	89	ND
	7/18/2007	NT	NT	NT	NT	NT	230	ND
	10/24/07	ND	ND	ND	ND	ND	ND	ND
MW-9	7/24/06	ND	ND	11	11	ND	ND	ND
	PRODUCT							
MW-10	7/24/06	ND	ND	ND	ND	ND	6	ND
	7/18/2007	NT	NT	NT	NT	NT	57	ND
	10/24/07	ND	ND	ND	ND	ND	ND	ND

<MDL = Parameter below method detection limit
NA = Well not Accessible
NS = Not Sampled (LNAPL present)
NT = Not Tested
P = These wells developed free product shortly after sampling and are no longer sampled for dissolved constituents

49 Dupont Street
Brooklyn, New York

Groundwater Dissolved Constituent Sampling

Well Number	Sampling Date	Benzene	Toluene	Ethylbenzene	Total Xylene	MtBE	Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate
MW-11	9/18/2006	ND	ND	ND	ND	ND	ND	ND
	DESTROYED							
MW-12	9/18/2006	ND	ND	ND	ND	ND	17	ND
	7/18/2007	NT	NT	NT	NT	NT	ND	ND
	10/24/07	ND	ND	ND	ND	ND	ND	ND
MW-13	9/18/2006	ND	ND	ND	ND	ND	ND	ND
	7/18/2007	NT	NT	NT	NT	NT	ND	ND
	10/24/07	ND	ND	ND	ND	ND	ND	ND
MW-14	9/18/2006	ND	ND	ND	ND	ND	ND	ND
	7/18/2007	NT	NT	NT	NT	NT	ND	ND
	10/24/07	ND	ND	ND	ND	ND	ND	ND
MW-15	12/7/06	ND	ND	ND	ND	ND	6,400	ND
	PRODUCT							
MW-16	12/7/06	ND	ND	ND	ND	ND	ND	990
	PRODUCT							
RW-1	7/18/2007	ND	ND	ND	ND	ND	ND	ND

<MDL = Parameter below method detection limit
NA = Well not Accessible
NS = Not Sampled (LNAPL present)
NT = Not Tested
P = These wells developed free product shortly after sampling and are no longer sampled for dissolved constituents

49 Dupont Street
Brooklyn, New York

Date

Well Number	2007-Sep	2007-Aug	2007-July	2007-June	2007-May	2007-April	2007-March	2007-Feb	2007-Jan	2006-Dec	2006-Nov
RW-2	15	47	67	75	72	76	79	98	80	92	100
RW-3	43	89	82	90	96	92	95	87	93	67	60
RW-4			3	2	32	27					
RW-8	36	38	38	39	46	42	14	16	25	5	
RW-9	19	22	23	21	17	15	16	20	13	6	
RW-10	146	166	154	166	175	165	167	158	144	168	
MW-4			1	1	7	6			1	1	27
MW-5	22	16	28	25	28	27			5		1
MW-6	9	17	29	26	26	26			5		
MW-15	4	8	1	1	4						
MW-16	4	8									
	298	411	426	446	503	476	371	379	366	339	188

TOTAL (GAL.)
4203.0

APPENDIX – C

Laboratory Analytical Reports

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 10/30/2007
Re: Client Project ID: 49-55 Dupont St.
York Project No.: 07100789

CT License No. PH-0723 New Jersey License No. CT-005 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 10/30/2007
Client Project ID: 49-55 Dupont St.
York Project No.: 07100789

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 10/22/07. The project was identified as your project "49-55 Dupont St.".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-14		MW-13	
York Sample ID			07100789-01		07100789-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	5.25	Not detected	5.25
1,2-Dichlorobenzene			Not detected	5.25	Not detected	5.25
1,3-Dichlorobenzene			Not detected	5.25	Not detected	5.25
1,4-Dichlorobenzene			Not detected	5.25	Not detected	5.25
2,4-Dinitrotoluene			Not detected	5.25	Not detected	5.25
2,6-Dinitrotoluene			Not detected	5.25	Not detected	5.25
2-Chloronaphthalene			Not detected	5.25	Not detected	5.25
2-Methylnaphthalene			Not detected	5.25	Not detected	5.25
2-Nitroaniline			Not detected	5.25	Not detected	5.25
3,3'-Dichlorobenzidine			Not detected	5.25	Not detected	5.25
3-Nitroaniline			Not detected	5.25	Not detected	5.25
4-Bromophenyl phenyl ether			Not detected	5.25	Not detected	5.25
4-Chloroaniline			Not detected	5.25	Not detected	5.25
4-Chlorophenyl phenyl ether			Not detected	5.25	Not detected	5.25
4-Nitroaniline			Not detected	5.25	Not detected	5.25
Acenaphthene			Not detected	5.25	Not detected	5.25

YORK

Client Sample ID			MW-14		MW-13	
York Sample ID			07100789-01		07100789-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Acenaphthylene			Not detected	5.25	Not detected	5.25
Anthracene			Not detected	5.25	Not detected	5.25
Benzo(a)anthracene			Not detected	5.25	Not detected	5.25
Benzo(a)pyrene			Not detected	5.25	Not detected	5.25
Benzo(b)fluoranthene			Not detected	5.25	Not detected	5.25
Benzo(g,h,i)perylene			Not detected	5.25	Not detected	5.25
Benzo(k)fluoranthene			Not detected	5.25	Not detected	5.25
Bis(2-chloroethoxy)methane			Not detected	5.25	Not detected	5.25
Bis(2-chloroethyl)ether			Not detected	5.25	Not detected	5.25
Bis(2-chloroisopropyl)ether			Not detected	5.25	Not detected	5.25
Bis(2-ethylhexyl)phthalate			Not detected	5.25	Not detected	5.25
Butyl benzyl phthalate			Not detected	5.25	Not detected	5.25
Carbazole			Not detected	5.25	Not detected	5.25
Chrysene			Not detected	5.25	Not detected	5.25
Dibenzo(a,h)anthracene			Not detected	5.25	Not detected	5.25
Dibenzofuran			Not detected	5.25	Not detected	5.25
Diethylphthalate			Not detected	5.25	Not detected	5.25
Dimethylphthalate			Not detected	5.25	Not detected	5.25
Di-n-butylphthalate			Not detected	5.25	Not detected	5.25
Di-n-octylphthalate			Not detected	5.25	Not detected	5.25
Fluoranthene			Not detected	5.25	Not detected	5.25
Fluorene			Not detected	5.25	Not detected	5.25
Hexachlorobenzene			Not detected	5.25	Not detected	5.25
Hexachlorobutadiene			Not detected	5.25	Not detected	5.25
Hexachlorocyclopentadiene			Not detected	5.25	Not detected	5.25
Hexachloroethane			Not detected	5.25	Not detected	5.25
Indeno(1,2,3-cd)pyrene			Not detected	5.25	Not detected	5.25
Isophorone			Not detected	5.25	Not detected	5.25
Naphthalene			Not detected	5.25	Not detected	5.25
Nitrobenzene			Not detected	5.25	Not detected	5.25
N-Nitrosodi-n-propylamine			Not detected	5.25	Not detected	5.25
N-Nitrosodiphenylamine			Not detected	5.25	Not detected	5.25
Phenanthrene			Not detected	5.25	Not detected	5.25
Pyrene			Not detected	5.25	Not detected	5.25

Client Sample ID			MW-12		MW-10	
York Sample ID			07100789-03		07100789-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	5.25	Not detected	5.25
1,2-Dichlorobenzene			Not detected	5.25	Not detected	5.25
1,3-Dichlorobenzene			Not detected	5.25	Not detected	5.25
1,4-Dichlorobenzene			Not detected	5.25	Not detected	5.25
2,4-Dinitrotoluene			Not detected	5.25	Not detected	5.25
2,6-Dinitrotoluene			Not detected	5.25	Not detected	5.25
2-Chloronaphthalene			Not detected	5.25	Not detected	5.25
2-Methylnaphthalene			Not detected	5.25	Not detected	5.25
2-Nitroaniline			Not detected	5.25	Not detected	5.25

YORK

Client Sample ID			MW-12		MW-10	
York Sample ID			07100789-03		07100789-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
3,3'-Dichlorobenzidine			Not detected	5.25	Not detected	5.25
3-Nitroaniline			Not detected	5.25	Not detected	5.25
4-Bromophenyl phenyl ether			Not detected	5.25	Not detected	5.25
4-Chloroaniline			Not detected	5.25	Not detected	5.25
4-Chlorophenyl phenyl ether			Not detected	5.25	Not detected	5.25
4-Nitroaniline			Not detected	5.25	Not detected	5.25
Acenaphthene			Not detected	5.25	Not detected	5.25
Acenaphthylene			Not detected	5.25	Not detected	5.25
Anthracene			Not detected	5.25	Not detected	5.25
Benzo(a)anthracene			Not detected	5.25	Not detected	5.25
Benzo(a)pyrene			Not detected	5.25	Not detected	5.25
Benzo(b)fluoranthene			Not detected	5.25	Not detected	5.25
Benzo(g,h,i)perylene			Not detected	5.25	Not detected	5.25
Benzo(k)fluoranthene			Not detected	5.25	Not detected	5.25
Bis(2-chloroethoxy)methane			Not detected	5.25	Not detected	5.25
Bis(2-chloroethyl)ether			Not detected	5.25	Not detected	5.25
Bis(2-chloroisopropyl)ether			Not detected	5.25	Not detected	5.25
Bis(2-ethylhexyl)phthalate			Not detected	5.25	Not detected	5.25
Butyl benzyl phthalate			Not detected	5.25	Not detected	5.25
Carbazole			Not detected	5.25	Not detected	5.25
Chrysene			Not detected	5.25	Not detected	5.25
Dibenzo(a,h)anthracene			Not detected	5.25	Not detected	5.25
Dibenzofuran			Not detected	5.25	Not detected	5.25
Diethylphthalate			Not detected	5.25	Not detected	5.25
Dimethylphthalate			Not detected	5.25	Not detected	5.25
Di-n-butylphthalate			Not detected	5.25	Not detected	5.25
Di-n-octylphthalate			Not detected	5.25	Not detected	5.25
Fluoranthene			Not detected	5.25	Not detected	5.25
Fluorene			Not detected	5.25	Not detected	5.25
Hexachlorobenzene			Not detected	5.25	Not detected	5.25
Hexachlorobutadiene			Not detected	5.25	Not detected	5.25
Hexachlorocyclopentadiene			Not detected	5.25	Not detected	5.25
Hexachloroethane			Not detected	5.25	Not detected	5.25
Indeno(1,2,3-cd)pyrene			Not detected	5.25	Not detected	5.25
Isophorone			Not detected	5.25	Not detected	5.25
Naphthalene			Not detected	5.25	Not detected	5.25
Nitrobenzene			Not detected	5.25	Not detected	5.25
N-Nitrosodi-n-propylamine			Not detected	5.25	Not detected	5.25
N-Nitrosodiphenylamine			Not detected	5.25	Not detected	5.25
Phenanthrene			Not detected	5.25	Not detected	5.25
Pyrene			Not detected	5.25	Not detected	5.25

YORK

Client Sample ID			MW-2		MW-3	
York Sample ID			07100789-05		07100789-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Base/Neutral Extractables	SW846-8270	ug/L	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	5.25	Not detected	5.25
1,2-Dichlorobenzene			Not detected	5.25	Not detected	5.25
1,3-Dichlorobenzene			Not detected	5.25	Not detected	5.25
1,4-Dichlorobenzene			Not detected	5.25	Not detected	5.25
2,4-Dinitrotoluene			Not detected	5.25	Not detected	5.25
2,6-Dinitrotoluene			Not detected	5.25	Not detected	5.25
2-Chloronaphthalene			Not detected	5.25	Not detected	5.25
2-Methylnaphthalene			Not detected	5.25	Not detected	5.25
2-Nitroaniline			Not detected	5.25	Not detected	5.25
3,3'-Dichlorobenzidine			Not detected	5.25	Not detected	5.25
3-Nitroaniline			Not detected	5.25	Not detected	5.25
4-Bromophenyl phenyl ether			Not detected	5.25	Not detected	5.25
4-Chloroaniline			Not detected	5.25	Not detected	5.25
4-Chlorophenyl phenyl ether			Not detected	5.25	Not detected	5.25
4-Nitroaniline			Not detected	5.25	Not detected	5.25
Acenaphthene			Not detected	5.25	Not detected	5.25
Acenaphthylene			Not detected	5.25	Not detected	5.25
Anthracene			Not detected	5.25	Not detected	5.25
Benzo(a)anthracene			Not detected	5.25	Not detected	5.25
Benzo(a)pyrene			Not detected	5.25	Not detected	5.25
Benzo(b)fluoranthene			Not detected	5.25	Not detected	5.25
Benzo(g,h,i)perylene			Not detected	5.25	Not detected	5.25
Benzo(k)fluoranthene			Not detected	5.25	Not detected	5.25
Bis(2-chloroethoxy)methane			Not detected	5.25	Not detected	5.25
Bis(2-chloroethyl)ether			Not detected	5.25	Not detected	5.25
Bis(2-chloroisopropyl)ether			Not detected	5.25	Not detected	5.25
Bis(2-ethylhexyl)phthalate			Not detected	5.25	Not detected	5.25
Butyl benzyl phthalate			Not detected	5.25	Not detected	5.25
Carbazole			Not detected	5.25	Not detected	5.25
Chrysene			Not detected	5.25	Not detected	5.25
Dibenzo(a,h)anthracene			Not detected	5.25	Not detected	5.25
Dibenzofuran			Not detected	5.25	Not detected	5.25
Diethylphthalate			Not detected	5.25	Not detected	5.25
Dimethylphthalate			Not detected	5.25	Not detected	5.25
Di-n-butylphthalate			Not detected	5.25	Not detected	5.25
Di-n-octylphthalate			Not detected	5.25	Not detected	5.25
Fluoranthene			Not detected	5.25	Not detected	5.25
Fluorene			Not detected	5.25	Not detected	5.25
Hexachlorobenzene			Not detected	5.25	Not detected	5.25
Hexachlorobutadiene			Not detected	5.25	Not detected	5.25
Hexachlorocyclopentadiene			Not detected	5.25	Not detected	5.25
Hexachloroethane			Not detected	5.25	Not detected	5.25
Indeno(1,2,3-cd)pyrene			Not detected	5.25	Not detected	5.25
Isophorone			Not detected	5.25	Not detected	5.25
Naphthalene			Not detected	5.25	Not detected	5.25
Nitrobenzene			Not detected	5.25	Not detected	5.25
N-Nitrosodi-n-propylamine			Not detected	5.25	Not detected	5.25
N-Nitrosodiphenylamine			Not detected	5.25	Not detected	5.25
Phenanthrene			Not detected	5.25	Not detected	5.25

YORK

Client Sample ID			MW-2		MW-3	
York Sample ID			07100789-05		07100789-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Pyrene			Not detected	5.25	Not detected	5.25

Client Sample ID			MW-8	
York Sample ID			07100789-07	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Base/Neutral Extractables	SW846-8270	ug/L	---	---
1,2,4-Trichlorobenzene			Not detected	5.40
1,2-Dichlorobenzene			Not detected	5.40
1,3-Dichlorobenzene			Not detected	5.40
1,4-Dichlorobenzene			Not detected	5.40
2,4-Dinitrotoluene			Not detected	5.40
2,6-Dinitrotoluene			Not detected	5.40
2-Chloronaphthalene			Not detected	5.40
2-Methylnaphthalene			Not detected	5.40
2-Nitroaniline			Not detected	5.40
3,3'-Dichlorobenzidine			Not detected	5.40
3-Nitroaniline			Not detected	5.40
4-Bromophenyl phenyl ether			Not detected	5.40
4-Chloroaniline			Not detected	5.40
4-Chlorophenyl phenyl ether			Not detected	5.40
4-Nitroaniline			Not detected	5.40
Acenaphthene			Not detected	5.40
Acenaphthylene			Not detected	5.40
Anthracene			Not detected	5.40
Benzo(a)anthracene			Not detected	5.40
Benzo(a)pyrene			Not detected	5.40
Benzo(b)fluoranthene			Not detected	5.40
Benzo(g,h,i)perylene			Not detected	5.40
Benzo(k)fluoranthene			Not detected	5.40
Bis(2-chloroethoxy)methane			Not detected	5.40
Bis(2-chloroethyl)ether			Not detected	5.40
Bis(2-chloroisopropyl)ether			Not detected	5.40
Bis(2-ethylhexyl)phthalate			Not detected	5.40
Butyl benzyl phthalate			Not detected	5.40
Carbazole			Not detected	5.40
Chrysene			Not detected	5.40
Dibenzo(a,h)anthracene			Not detected	5.40
Dibenzofuran			Not detected	5.40
Diethylphthalate			Not detected	5.40
Dimethylphthalate			Not detected	5.40
Di-n-butylphthalate			Not detected	5.40
Di-n-octylphthalate			Not detected	5.40
Fluoranthene			Not detected	5.40
Fluorene			Not detected	5.40
Hexachlorobenzene			Not detected	5.40
Hexachlorobutadiene			Not detected	5.40
Hexachlorocyclopentadiene			Not detected	5.40
Hexachloroethane			Not detected	5.40

YORK

Client Sample ID			MW-8	
York Sample ID			07100789-07	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Indeno(1,2,3-cd)pyrene			Not detected	5.40
Isophorone			Not detected	5.40
Naphthalene			Not detected	5.40
Nitrobenzene			Not detected	5.40
N-Nitrosodi-n-propylamine			Not detected	5.40
N-Nitrosodiphenylamine			Not detected	5.40
Phenanthrene			Not detected	5.40
Pyrene			Not detected	5.40

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 07100789

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 10/30/2007

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

07100789

Company Name	Report To:	Invoice To:	Project ID/No.	
ADVANCED SITE RESTORATION	STEVE MILLER	AGR	49-55 DUPONT ST. BKLYN	Samples Collected By (Signature): [signature] Name (Printed): ANTHONY ADESSO

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	MW-14	10/20	X				8270 BN	1 AMBER
	MW-13	10/20	X					
	MW-12	10/20	X					
	MW-10	10/20	X					
	MW-2	10/22	X					
	MW-3	10/22	X					
	MW-8	10/22	X					

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	[signature] Sample Relinquished by	10/22 Date/Time	[signature] Sample Received by	10/22/07 1:25PM Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	[signature] Sample Received in LAB by	10-22-07 1900 Date/Time

Comments/Special Instructions

4.2°C

Turn-Around Time

____Standard ____RUSH(define)_____

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 11/5/2007
Re: Client Project ID: 49-55 Dupont St, Bklyn.
York Project No.: 07100915

CT License No. PH-0723 New Jersey License No. CT-005 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 11/5/2007
Client Project ID: 49-55 Dupont St., Bklyn.
York Project No.: 07100915

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 10/25/07. The project was identified as your project "49-55 Dupont St., Bklyn.".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW-12		MW-13	
York Sample ID			07100915-01		07100915-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	Not detected	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	5	Not detected	5
Isopropylbenzene			Not detected	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			Not detected	5	Not detected	5
n-Butylbenzene			Not detected	5	Not detected	5
n-Propylbenzene			Not detected	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			Not detected	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			Not detected	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5

YORK

Client Sample ID			MW-14		MW-8	
York Sample ID			07100915-03		07100915-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	Not detected	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	5	Not detected	5
Isopropylbenzene			Not detected	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			Not detected	5	Not detected	5
n-Butylbenzene			Not detected	5	Not detected	5
n-Propylbenzene			Not detected	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			Not detected	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			Not detected	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5

Client Sample ID			MW-10		MW-2	
York Sample ID			07100915-05		07100915-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	Not detected	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	5	Not detected	5
Isopropylbenzene			Not detected	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			Not detected	5	Not detected	5
n-Butylbenzene			Not detected	5	Not detected	5
n-Propylbenzene			Not detected	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			Not detected	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			Not detected	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5

Client Sample ID			MW-3	
York Sample ID			07100915-07	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Volatiles, STARS List	SW846-8260	ug/L	---	---
1,2,4-Trimethylbenzene			Not detected	5
1,3,5-Trimethylbenzene			Not detected	5
Benzene			Not detected	1

YORK

Client Sample ID			MW-3	
York Sample ID			07100915-07	
Matrix			WATER	
Parameter	Method	Units	Results	MDL
Ethylbenzene			Not detected	5
Isopropylbenzene			Not detected	5
Methyl-tert-butyl ether			Not detected	5
Naphthalene			Not detected	5
n-Butylbenzene			Not detected	5
n-Propylbenzene			Not detected	5
o-Xylene			Not detected	5
p- & m- Xylenes			Not detected	5
p-Isopropyltoluene			Not detected	5
sec-Butylbenzene			Not detected	5
tert-Butylbenzene			Not detected	5
Toluene			Not detected	5

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 07100915

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: Robert Q. Bradley
Managing Director

Date: 11/5/2007

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120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page ___ of ___

07100915

Company Name	Report To:	Invoice To:	Project ID/No.	
Advanced Site Restoration 62 William St	Steve	ASR	49-55 Dupont St Bklyn	Samples Collected By (Signature): [signature] Name (Printed): Anthony Acosu

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
	MW-12	10-24-07	X				8260 STARS	2 40 ml
	MW-13		X					
	MW-14		X					
	MW-8		X					
	MW-10		X					
	MW-2		X					
	MW-3		X					

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	[signature] Sample Relinquished by	10-27-07 Date/Time	H Bernard Horton Sample Received by	10-25-07 10:40 AM Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	J. [illegible] Sample Received in LAB by	10-25-07 1630 Date/Time

Comments/Special Instructions 4.1°C

Turn-Around Time
___Standard ___RUSH(define)_____

ADVANCED SITE RESTORATION, LLC
ENVIRONMENTAL SERVICES

Monthly Monitoring Report

49-55 Dupont Street, Brooklyn, New York 11222
NYSDEC SPILL # 06-01852

Prepared By:

Advanced Site Restoration, LLC
62 William Street, New York N.Y. 10005

Prepared For:

49 Dupont Realty Corporation
49-55 Dupont St., Brooklyn, New York 11222

Steve Muller, CEC
ASR Project Technician

Christopher Tomasello, IH.
ASR Project Manager

December 27, 2007

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2.0 SITE CHARACTERIZATION.....2

3.0 SITE INVESTIGATION RESULTS.....3

4.0 LNAPL REMOVAL PROGRAM.....3

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APPENDIX- A FIGURES

Figure – 1 Site Location Map
Figure – 2 Well Location Map
Figure – 3 Groundwater Gradient Map

APPENDIX- B TABLES

Table – 1 Monitoring Well Gauging Data
Table – 2 Product Recovery Data

1.0 INTRODUCTION

Advanced Site Restoration, LLC (ASR) has developed this Monthly Monitoring Report on behalf of 49 Dupont Realty Corporation for 49-55 Dupont Street in Brooklyn New York (the site). The purpose of this report is to provide an update on the ongoing site investigation and Interim Remedial Measure (IRM) taking place at the site.

In December 2007, ASR conducted groundwater monitoring to provide an updated delineation of the contaminant plume. ASR began the subsurface investigation at the site in July 2006, and has since performed monthly monitoring and quarterly sampling. In addition, ASR has performed LNAPL recovery and removal from specially designated recovery wells and monitoring wells. All on-site activities have been documented thus far and are provided for in Appendix B, Table - 1 and Table -2.

As per the December 2007 groundwater monitoring activities, the contaminant plume is contained and stable. The level of LNAPL in the wells was found to be decreasing as the LNAPL removal program continues.

2.0 SITE CHARACTERIZATION

The site is legally identified as New York City Tax Block 2487, Tax Lots 1, 10, 12, 17, 18, 20, 21, 57, 72, and 78. The current owner since 1983 is 49 Dupont Realty Corporation. The site is a former manufacturing facility. The New York City Department of Finance Occupancy Code is "F-9, Factory Industrial." According to the Sanborn Map Report from Environmental Data Resources, Inc. (EDR), industrial activity at the site dates back to 1887. Site location map is located in Appendix A Figure – 1.

Historic use of the site has included manufacturing, office, storage, shipping and receiving. More recently, the site had been used as a plastic manufacturing facility since 1950. According to *FPM Group* who completed a Phase I Site Assessment, dated April 2005 for the site, reported that commercial uses prior to 1950 included a boiler shop for Logan Ironworks, two stable buildings, a gas and light fixture factory, a sheet metal works, a soap manufacturer, a water proofing manufacturer, and a scrap metal facility.

3.0 SITE INVESTIGATION RESULT

On December 14, 2007 ASR measured the depth to water, and monitored for the presence of LNAPL at the site and the surrounding area. A total of fifteen (15) monitoring wells and ten (10) recovery wells were monitored. LNAPL (Light Non-Aqueous Phase Liquid) was detected in seventeen (17) of the twenty five (25) wells (MW-1, MW-4, MW-5, MW6, MW-7 MW-9, MW-15, MW-16, RW-2 RW-3, RW-4, RW-5, RW-6, RW-7, RW-8, RW-9 and RW-10). The LNAPL in sixteen (16) of the twenty five (25) wells ranged from a sheen to several inches thick. In MW-9 and RW-7, LNAPL was too thick for a reading to be taken. Based on the monitoring results the LNAPL plume appears to be contained to the west and north east sections of the site. Although LNAPL was detected beneath the sidewalk adjacent to the site, it was not detected in either of the two (2) down gradient wells, (MW-12 and MW-13). The location of all groundwater monitoring wells and recovery wells is shown on the Monitoring Well Location Map, Appendix A Figure – 2. All monitoring data is attached as Appendix B, Table - 1 (*Monitoring Well Gauging Data)*.

The depth to groundwater was detected at a range of 7.33 ft to 15.84 ft. A previous groundwater survey indicated that the groundwater flow direction is in a north westerly direction. A Groundwater Gradient Map is located in Appendix A Figure – 3.

4.0 LNAPL REMOVAL PROGRAM

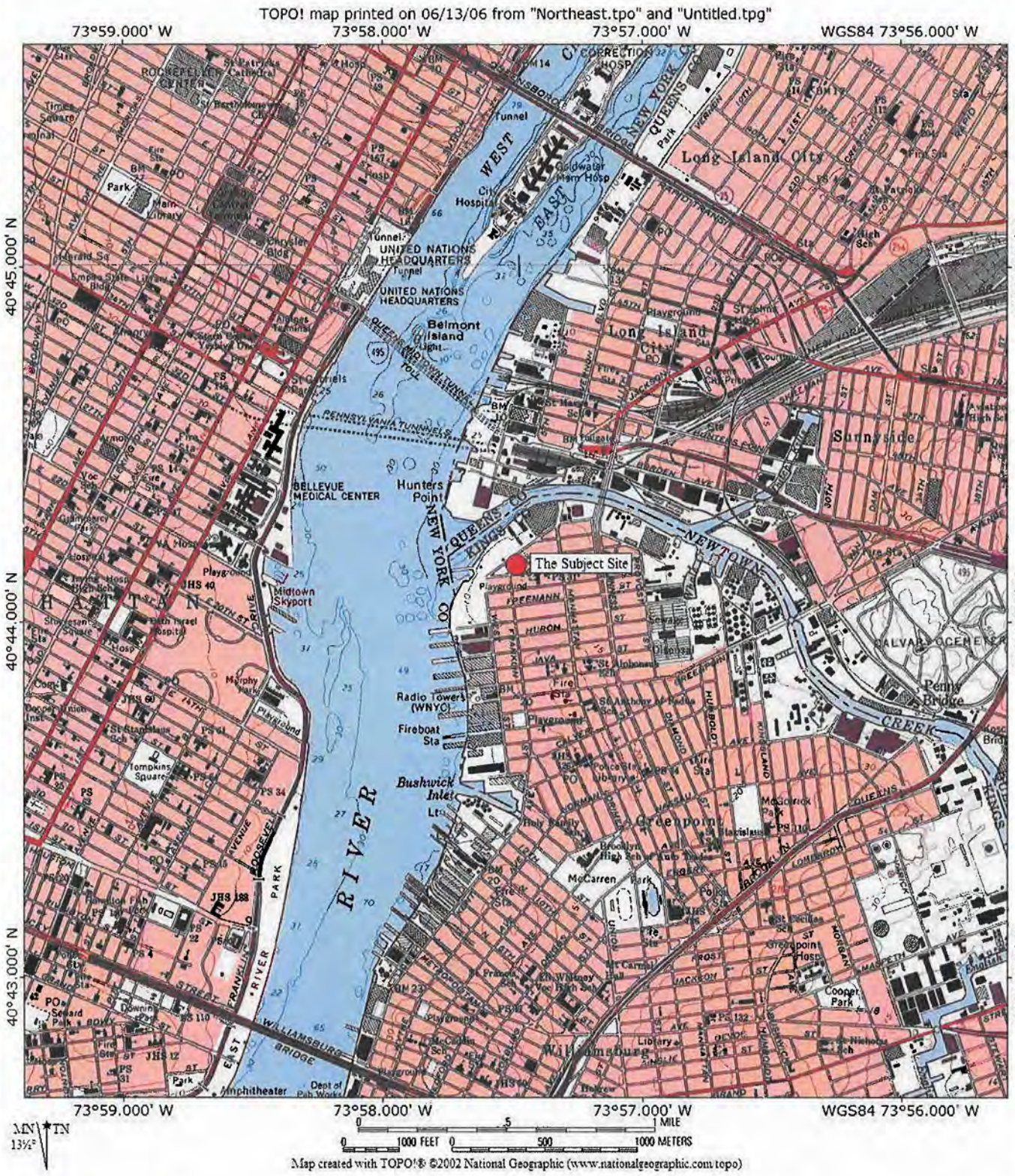
In November 2006, ASR implemented an Interim Remedial Measure (IRM) which included the recovered of LNAPL by both mechanical and hand bailing methods. This IRM has continued uninterrupted removing a combination of plasticizers and #4 Fuel Oil. The main wells that product has been, and is being removed from, are RW-2, RW-3, RW-8, RW-9, RW-8, RW-10, MW-5, MW-6. Monitoring wells MW-15 and MW-16 were recently added to the LNAPL removal program in May 2007 along with RW-7 containing the fuel oil which was added in October 2007. Approximately 841 gallons of LNAPL was removed in the fourth quarter of 2007 using *Spillbuster Inc.* pumps and hand bailing, of which 8 gallons was fuel oil. A total of approximately 5,044 gallons has been removed from the ground as of the date of this report. On August 16, 2007 3,200 gallons of LNAPL were removed from the site using a vacuum truck. The remaining 1,844 gallons are currently being stored on site, as additional product continues to be removed from the ground. A vacuum truck will remove all of the LNAPL being stored on-site when it is deemed necessary and efficient to do so. The product recovery data is located in Appendix B Table - 2.

5.0 CONCLUSION

As per the November 2007 groundwater monitoring activities, the contaminant plume is contained and stable. LNAPL continues to exist at and around the site, ranging from sheen to several feet in thickness. The levels of LNAPL in the wells were found to be decreasing as the LNAPL removal program continues.

ASR will continue to monitor and sample all groundwater monitoring wells to determine the status of the identified contamination. ASR will also continue to perform the product removal program as the ongoing IRM and monitor the progress of this program.

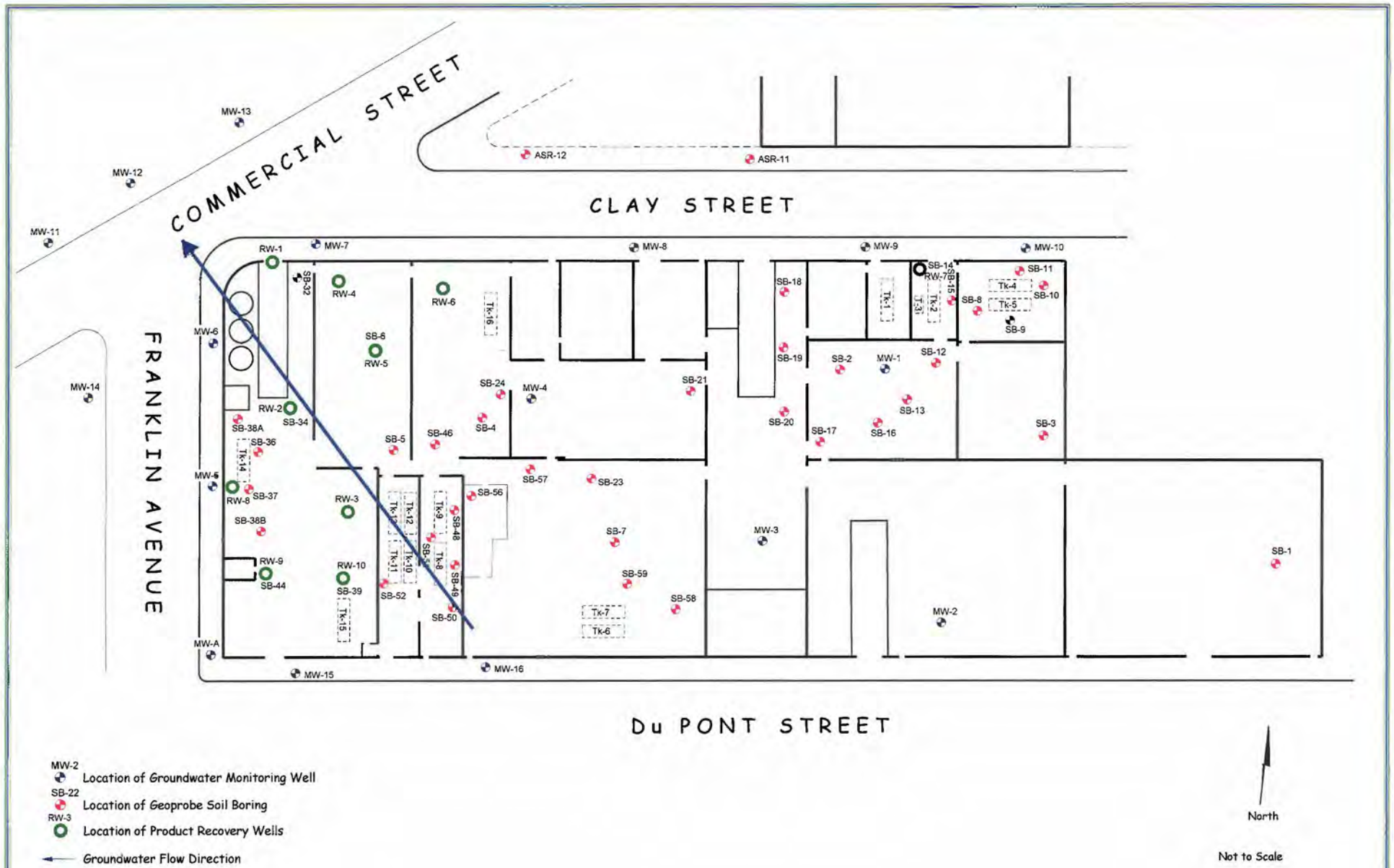
APPENDIX - A



ADVANCED Site Restoration, LLC.
Environmental Services

62 William St., 3rd Floor, New York, NY 10005
Tel: 212-809-1110 Fax: 212-809-1779 info@askasr.com

Figure - 1
Site Location Map
49-55 Dupont Street
Brooklyn, New York 11222



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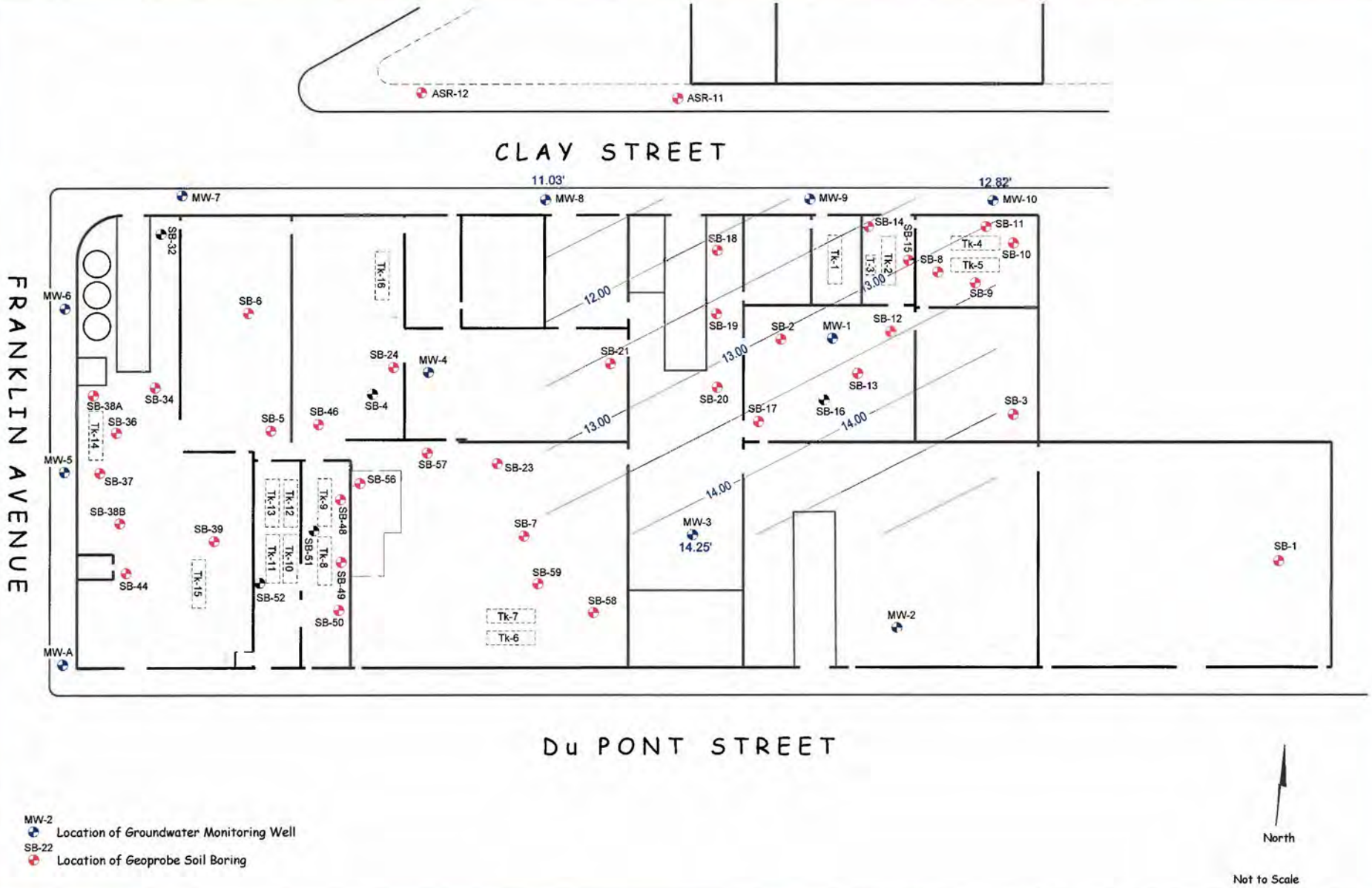
SWM

Figure - 2
Well Location Map
December 2007

49 Dupont Realty Corp.
49 - 55 Dupont Street
Brooklyn, New York



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Groundwater Gradient Map
August 1, 2006

SWM

Rev: 08/23/06

49 Dupont Realty Corp.
49 - 55 Dupont Street
Brooklyn, New York

APPENDIX - B

TABLE - 1

Monitoring Well Gauging Data

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-1	5/10/2006	25.19	10.89	10.88	0.01	14.30
	11/20/2006		10.83	10.79	0.04	14.36
	6/18/2007		10.70	10.68	0.02	14.49
	8/13/2007		10.30	10.25	0.05	14.89
	9/24/2007		11.14	11.12	0.02	14.05
	10/21/2007		11.32	11.34	0.02	13.87
	11/23/2007		11.32	11.31	0.01	13.87
	12/14/2007		11.48	11.47	0.01	13.71
MW-2	5/10/2006	25.34	11.78	----	----	13.56
	11/20/2006		NA			
	4/25/2007		7.66			17.68
	5/10/2007		8.64			16.70
	6/18/2007		9.66			15.68
	8/13/2007		8.30			17.04
	9/24/2007		10.20			15.14
	10/21/2007		10.44			14.90
	11/23/2007		10.59			14.75
	12/14/2007		10.76			14.58
MW-3	5/10/2006	25.52	9.83	----	----	15.69
	8/10/2006		11.27	----	----	14.25
	11/20/2006		NA			
	4/25/2007		10.98			14.54
	5/10/2007		9.50			16.02
	6/18/2007		11.53			13.99
	8/13/2007		11.01			14.51
	9/24/2007		11.94			13.68
	10/21/2007		12.26			13.36
	11/23/2007		12.45			13.07
	12/14/2007		12.75			12.77
MW-4	5/10/2006	25.62	13.90	12.28	1.62	11.72
	11/20/2006		13.56	12.28	1.28	12.06
	5/10/2007		11.92	11.80	0.12	13.70
	6/18/2007		12.55	12.37	0.18	13.07
	8/13/2007		12.42	12.07	0.35	13.20
	9/24/2007		12.98	12.78	0.20	12.63
	10/21/2007		13.02	13.14	0.12	12.60
	11/23/2007		13.14	13.13	0.01	12.48
	12/14/2007		13.31	13.29	0.02	12.31
MW-5	8/10/2006	19.57	14.90	9.11	5.79	4.67
	11/20/2006		10.30	9.17	1.13	9.27
	5/10/2007		9.29	8.82	0.47	10.28
	6/18/2007		12.25	9.27	2.98	7.32
	8/13/2007		9.70	9.16	0.54	9.87
	9/24/2007		11.79	9.70	2.09	7.78
	10/21/2007		15.04	9.71	5.33	4.43
	11/23/2007		15.51	9.81	5.70	4.06
	12/14/2007		14.81	9.88	4.93	4.76

TABLE - 1

Monitoring Well Gauging Data

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-6	8/10/2006	18.62	12.00	8.28	3.72	6.62
	11/20/2006		8.85	8.23	0.62	9.77
	5/10/2007		8.41	7.87	0.54	10.21
	6/18/2007		9.34	9.07	0.27	9.28
	8/13/2007		10.25	8.69	1.56	8.37
	9/24/2007		9.82	9.45	0.37	8.79
	10/21/2007		9.99	9.62	0.37	8.63
	11/23/2007		9.76	9.06	0.70	8.86
	12/14/2007		9.68	9.13	0.55	8.94
MW-7	8/10/2006	18.75	10.52	8.62	1.90	8.23
	11/20/2006		8.80	8.52	0.28	9.95
	5/10/2007		8.33	8.21	0.12	10.42
	6/18/2007		9.12	8.66	0.46	9.63
	8/13/2007		9.50	8.65	0.85	9.25
	9/24/2007		9.71	9.10	0.61	9.04
	10/21/2007		9.48	9.14	0.34	9.27
	11/23/2007		9.79	9.13	0.66	8.96
	12/14/2007		9.65	9.32	0.33	9.10
MW-8	8/10/2006	20.26	9.46	----	----	10.80
	11/20/2006		NA			
	5/10/2007		8.86			11.40
	6/18/2007		9.40			10.86
	8/13/2007		9.45			10.81
	9/24/2007		9.78			10.48
	10/21/2007		10.03			10.23
	11/23/2007		10.16			10.10
	12/14/2007		10.21			10.05
MW-9	8/10/2006	20.62	10.22	7.88	2.34	10.40
	11/20/2006		LNAPL			
	6/18/2007		too thick			
	8/13/2007		too thick			
	9/24/2007		unknown	8.79		
	10/21/2007		too thick			
	11/23/2007		9.33	9.29		11.29
	12/14/2007		too thick			

TABLE - 1

Monitoring Well Gauging Data

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-10	*8/1/2006*	*21.04*	*8.22*	----	----	*12.82*
	5/10/2007		*7.97*			*13.07*
	6/18/2007		*8.25*			*12.79*
	9/24/2007		*8.69*			*12.79*
	10/21/2007		*8.64*			*12.40*
	11/23/2007		*8.88*			*12.16*
	12/14/2007		*8.96*			*12.08*
MW-11	*9/19/2006*	*17.01*	*7.07*	----	----	*9.94*
	11/20/2006					
	5/10/2007		*DESTROYED*			
MW-12	*9/19/2006*	*16.99*	*7.10*	----	----	*9.89*
	11/20/2006					
	5/10/2007		*6.89*			*10.10*
	8/13/2007		*6.57*			*10.42*
	9/24/2007		*7.74*			*9.25*
	10/21/2007		*7.61*			*9.38*
	11/23/2007		*7.64*			*9.35*
	12/14/2007		*7.21*			*9.78*
MW-13	*9/19/2006*	*17.20*	*7.16*	----	----	*10.04*
	11/20/2006					
	5/10/2007		*6.87*			*10.33*
	8/13/2007		*6.51*			*10.69*
	9/24/2007		*7.89*			*9.31*
	10/21/2007		*7.72*			*9.48*
	11/23/2007		*7.77*			*9.43*
	12/14/2007		*7.33*			*9.87*

TABLE - 1

Monitoring Well Gauging Data

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-14	*9/19/2006*	*18.23*	*8.11*	----	----	*10.12*
	11/20/2006					
	5/10/2007		*7.60*			*10.63*
	8/13/2007		*8.23*			*10.00*
	9/24/2007		*8.52*			*9.71*
	10/21/2007		*8.61*			*9.62*
	11/23/2007		*8.71*			*9.52*
	12/14/2007		*NA*			
MW-15	*5/10/2007*	*NA*	*10.83*	*9.35*	*1.48*	----
	5/23/2007		*9.72*	*9.70*	*0.02*	----
	6/18/2007		*10.02*	*9.93*	*0.09*	----
	8/13/2007		*9.70*	*9.16*	*0.54*	----
	9/24/2007		*10.73*	*10.32*	*0.41*	----
	10/21/2007		*11.37*	*10.44*	*0.07*	----
	11/23/2007		*NA*			
	12/14/2007		*11.15*	*10.63*	*0.52*	----
MW-16	*5/10/2007*	*NA*	*11.07*	*9.98*	*1.09*	----
	5/23/2007		*10.54*	*10.31*	*0.23*	----
	6/18/2007		*11.27*	*10.59*	*0.68*	----
	8/13/2007		*11.81*	*10.46*	*1.35*	----
	9/24/2007		*11.03*	*11.09*	*0.06*	----
	10/21/2007		*11.16*	*11.14*	*0.02*	----
	11/23/2007		*NA*			
	12/14/2007		*11.35*	*11.32*	*0.03*	----

TABLE - 1

Monitoring Well Gauging Data

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
RW-1	11/20/2006	NA	8.38			----
	4/25/2007		7.57			----
	5/10/2007		8.04			----
	6/18/2007		8.57			----
	9/24/2007		9.10			----
	10/21/2007		9.17			----
	11/23/2007		9.31			----
	12/14/2007		9.22			----
RW-2	4/25/2007	NA	12.46	12.45	0.01	----
	5/10/2007		12.91	12.71	0.20	----
	10/21/2007		14.09	13.85	0.24	----
	11/23/2007		15.81	14.51	1.30	----
	12/14/2007		15.22	13.85	1.37	----
RW-3	4/25/2007	NA	13.84	13.60	0.24	----
	5/10/2007		14.17	14.00	0.17	----
	6/18/2007		15.40	14.53	0.87	----
	9/24/2007		15.63	14.96	0.67	----
	10/21/2007		15.73	15.12	0.51	----
	11/23/2007		16.51	15.15	1.36	----
	12/14/2007		15.55	13.33	2.22	----
RW-4	11/20/2006	NA	16.47	14.49	1.98	----
	4/25/2007		14.15	13.75	0.40	----
	5/10/2007		14.44	14.10	0.34	----
	6/18/2007		14.85	14.62	0.23	----
	9/24/2007		16.87	15.29	1.58	----
	10/21/207		15.74	15.45	0.29	----
	11/23/2007		15.88	15.42	0.46	----
	12/14/2007		15.84	15.48	0.36	----
RW-5	11/20/2006	NA	13.64	13.53	0.11	----
	4/25/2007		12.75	12.60	0.15	----
	5/10/2007		13.10	13.02	0.08	----
	6/18/2007		13.60	13.55	0.05	----
	9/24/2007		14.24	13.94	0.30	----
	10/21/2007		14.23	14.11	0.12	----
	11/23/2007		14.23	14.13	0.10	----
	12/14/2007		14.75	14.26	0.49	----

TABLE - 1

Monitoring Well Gauging Data

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
RW-6	4/25/2007	NA	10.69			----
	5/10/2007		11.08			----
	6/18/2007		11.58			----
	9/24/2007		12.77	11.94	0.83	----
	10/21/2007		12.92	12.11	0.81	----
	11/23/2007		12.85	12.14	0.71	----
	12/14/2007		12.78	12.21	0.57	----
RW-7	11/20/06		LNAPL			----
	9/24/2007		unknown	9.05		----
	10/21/2007		9.51	too thick		----
	11/23/2007		9.83	9.77		----
	12/14/2007		9.80	too thick		----
RW-8	4/25/2007	NA	12.60	12.35	0.25	----
	5/10/2007		13.11	12.78	0.33	----
	6/18/2007		14.36	13.25	1.11	----
	8/13/2007					----
	9/24/2007		15.95	13.65	2.30	----
	10/21/207		NS			----
	11/23/2007		14.45	13.98	0.47	----
	12/14/2007		14.78	13.95	0.83	----
RW-9	4/25/2007	NA	12.10	11.95	0.15	----
	5/10/2007		12.59	12.36	0.23	----
	6/18/2007		13.60	12.83	0.77	----
	8/13/2007					----
	9/24/2007		14.80	13.30	1.50	----
	10/21/2007		NS			----
	11/23/2007		13.97	13.23	0.74	----
	12/14/2007		14.15	13.59	0.56	----
RW-10	4/25/2007	NA	11.76	11.64	0.12	----
	5/10/2007		12.13	12.05	0.08	----
	8/13/2007		pump			----
	9/24/2007		pump			----
	10/21/2007		pump			----
	11/23/2007		13.89	13.18	0.71	----
	12/14/2007		13.72	13.31	0.41	----

TABLE - 2

Product Recovery

Well Number	Dec-07	Nov-07	Oct-07	Sep-07	Aug-07	Jul-07	Jun-07	May-07	Apr-07	Mar-07	Feb-07	Jan-07	Dec-06	Nov-06
RW-2	20	23	27	15	47	67	75	72	76	79	98	80	92	100
RW-3	35	52	87	43	89	82	90	96	92	95	87	93	67	60
RW-4	0	0	0	0	0	3	2	32	27	0	0	0	0	0
RW-5	8	10	9	0	0	0	0	0	0	0	0	0	0	0
RW-7	2	4	2	0	0	0	0	0	0	0	0	0	0	0
RW-8	25	22	27	36	38	38	39	46	42	14	16	25	5	0
RW-9	15	26	14	19	22	23	21	17	15	16	20	13	6	0
RW-10	108	110	120	146	166	154	166	175	165	167	158	144	168	0
MW-4	0	0	0	0	0	1	1	7	6	0	0	1	1	27
MW-5	18	22	20	22	16	28	25	28	27	0	0	5	0	1
MW-6	2	8	14	9	17	29	26	26	26	0	0	5	0	0
MW-7	0	1	1	0	0	0	0	0	0	0	0	0	0	0
MW-9	1	2	0	0	0	0	0	0	0	0	0	0	0	0
MW-15	1	1	3	4	8	1	1	4	0	0	0	0	0	0
MW-16	0	1	0	4	8	0	0	0	0	0	0	0	0	0
Total =	*235*	*282*	*324*	*298*	*411*	*426*	*446*	*503*	*476*	*371*	*379*	*366*	*339*	*188*

TOTAL (GAL.) RECOVERD

5,044

ADVANCED SITE RESTORATION, LLC
ENVIRONMENTAL SERVICES

Quarterly Sampling Report

First Quarter 2008

49-55 Dupont Street, Brooklyn, New York 11222
NYSDEC SPILL # 06-01852

Prepared By:

Advanced Site Restoration, LLC
62 William Street, New York N.Y. 10005

Prepared For:

49 Dupont Realty Corporation
49-55 Dupont St., Brooklyn, New York 11222

Steven Muller, CEC
Project Technician

Christopher Tomasello, IH
Project Manager

March 2008

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2.0 SITE CHARACTERIZATION 2
2.1 Site Description 2
3.0 SITE INVESTIGATION RESULTS 3
3.1 Monitoring Well Gauging 3
3.2 Monitoring Well Sampling 3
3.3 Sampling Analysis 3
3.4 LNAPL Removal Program 4
4.0 CONCLUSION 4

APPENDIX - A FIGURES

Figure – 1 Site Location Map
Figure – 2 Well Location Map
Figure – 3 Groundwater Gradient Map
Figure – 4 Monitoring/Sampling Results Map Jan/08-Feb/08

APPENDIX - B TABLES

Table – 1 Monitoring Well Gauging Data
Table – 2 Groundwater Dissolved Constituent Sampling
Table – 3 Product Recovery Data

APPENDIX - C REPORTS

Laboratory Analytical Reports

APPENDIX - D MANIFEST

1.0 INTRODUCTION

Advanced Site Restoration, LLC (ASR) has developed this Quarterly Sampling Report on behalf of 49 Dupont Realty Corporation for 49-55 Dupont Street in Brooklyn New York (the subject site). The purpose of this report is to provide an update on the ongoing site investigation and Interim Remedial Measure (IRM) taking place at the site.

In January 2008, ASR conducted groundwater monitoring and sampling to provide an updated status of the contaminant plume. ASR began the subsurface investigation at the site in July 2006, and has since performed monthly monitoring and quarterly sampling. In addition, ASR has performed LNAPL recovery and removal from specially designated recovery wells and monitoring wells. All on-site activities have been documented thus far, and are attached as Appendix-B.

As per the January 2008 groundwater monitoring and sampling activities, the contaminant plume is contained and stable. The level of LNAPL in the wells was found to be decreasing as the LNAPL removal program continues. All groundwater monitoring wells free of LNAPL, including two (2) down gradient wells, were sampled, and analysis indicated that no VOCs were detected in excess of the laboratory minimum detection limits.

2.0 SITE CHARACTERIZATION

2.1 Site Description

The site is legally identified as New York City Tax Block 2487, Tax Lots 1, 10, 12, 17, 18, 20, 21, 57, 72, and 78. The current owner since 1983 is 49 Dupont Realty Corporation. The site is a former manufacturing facility. The New York City Department of Finance Occupancy Code is "F-9, Factory Industrial." According to the Sanborn Map Report from Environmental Data Resources, Inc. (EDR), industrial activity at the site dates back to 1887.

Historic use of the site has included manufacturing, office, storage, shipping and receiving. More recently, the site had been used as a plastic manufacturing facility since 1950. According to *FPM Group* who completed a Phase I Site Assessment, dated April 2005 for the site, reported that commercial uses prior to 1950 included a boiler shop for Logan Ironworks, two stable buildings, a gas and light fixture factory, a sheet metal works, a soap manufacturer, a water proofing manufacturer, and a scrap metal facility.

3.0 SITE INVESTIGATION RESULTS

3.1 Monitoring Well Gauging

On January 11, 2008 ASR measured the depth to water, and monitored for the presence of LNAPL at the site and the surrounding area. A total of twenty five (25) wells were monitored. LNAPL (Light Non-Aqueous Phase Liquid) was detected in seventeen (17) of the twenty five (25) wells (MW-1, MW-4, MW-5, MW6, MW-7 MW-9 MW-15, MW-16, RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, RW-7, RW-8, RW-9 and RW-10). The LNAPL in the seventeen (17) wells were all below 12 inches thick. Based on the monitoring results the LNAPL plume appears to be contained to the west and north east sections of the site. Although LNAPL was detected beneath the sidewalk adjacent to the site, it was not detected in either of the two (2) down gradient wells, (MW-12 and MW-13).

The depth to groundwater was detected at a range of 7.37 ft to 15.19 ft. A previous groundwater survey indicated that the groundwater flow direction is in a north westerly direction. The location of all groundwater monitoring wells is shown on the Monitoring Well Location Map, Appendix-A Figure – 2. All monitoring data is attached as Appendix-B, *Monitoring Well Gauging Data*.

3.2 Monitoring Well Sampling

On January 11, 2008 ASR sampled seven (7) groundwater monitoring wells (MW-2, MW-3, MW-8, MW-10, MW-12, MW-13, MW-14). New disposable polyethylene tubing was used with a peristaltic pump for sample collection. The groundwater samples were submitted to York Analytical Laboratories, Inc. and analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8260 Stars and Semi Volatile Organic Compounds (SVOCs) using EPA Method 8270 Stars. All sampling data is attached in Appendix-B, *Groundwater Dissolved Constituent Sampling.*

3.3 Sampling Analysis

Bis (2-ethylhexyl) Phthalate has historically been detected as both LNAPL and a dissolved constituent in previous groundwater sampling activities. The January 2008 groundwater analytical results indicated that phthalates were detected in five (5) of the seven (7) groundwater samples collected. Dissolved phthalates were

detected in the groundwater samples collected from MW-12, MW-13, and MW-14. The detection in these wells, which had not previously reflected the presence of phthalates, was immediately suspected to be the result of cross contamination during the sampling process. No other VOCs were detected in any of the seven (7) sampled groundwater monitoring wells.

As a result of concerns with the initial detection of low levels of dissolved phthalates in monitoring wells MW-12, MW-13, and MW-14, and the possibility of cross contamination, these wells were resampled. On February 7, 2008 ASR returned to the site and collected groundwater samples from MW-12, MW-13 and MW14 after proper purging and development. The samples were and delivered to York Analytical Laboratories, Inc. and analyzed for EPA 8270 BN. The results indicated no detection of any phthalates in all three (3) samples. The laboratory analytical report is attached in Appendix-C.

3.4 LNAPL Removal Program

In November 2006, ASR implemented an Interim Remedial Measure (IRM) which included the recovered LNAPL by both mechanical and hand bailing methods. This IRM has continued uninterrupted removing a combination of phthalates and #4 Fuel Oil. Since November 2006 product has been recovered from RW-2, RW-3, RW-5, RW-7, RW-8, RW-9, RW-10, and monitoring wells MW-5, MW-6. Additional monitoring wells MW-15 and MW-16 were recently added to the LNAPL removal program in May 2007 along with RW-7 containing the fuel oil which was added in October 2007. Approximately 873 gallons of LNAPL was recovered in the first quarter of 2008 using *Spillbuster Inc.* pumps and hand bailing, of which 22 gallons was fuel oil. A total of approximately 5,400 gallons has been recovered from the ground as of the date of this report. On August 16, 2007, 3,200 gallons of LNAPL was recovered from the site using a vacuum truck. On February 7 2008 an additional 3,115 gallons of recovered phthalates was removed from the site by a vacuum truck. The manifest is attached in Appendix-D. Additional product continues to be recovered from the ground and stored on site. The product recovery data is located in Appendix - B Table - 2.

4.0 CONCLUSION

As per the January 2008 groundwater monitoring and sampling activities, the contaminant plume is contained and stable. LNAPL continues to be detected at the subject site, ranging in thickness from a sheen to several inches. The levels of LNAPL in the wells were found to be decreasing as the LNAPL removal program continues. All groundwater monitoring wells free of LNAPL were sampled and analyzed.

The low level detection of phthalates in the results of the three (3) down gradient well locations was suspected to be the result of cross contamination encountered during sampling and not indicative of the quality of the groundwater at these locations. As a result, ASR collected and analyzed additional samples from these wells. The data indicated no detection of phthalates in any of the samples. No other VOCs were detected in excess of the laboratory minimum detection limits in any samples.

ASR will continue to perform monthly monitoring and quarterly sampling of all groundwater monitoring wells to monitor the status of the identified contamination. ASR will also continue to perform the product recovery program as an ongoing IRM, and continue to provide updated status reports on the progress of this program.

APPENDIX - A

APPENDIX - B

APPENDIX - C

APPENDIX - D

ADVANCED SITE RESTORATION, LLC
ENVIRONMENTAL SERVICES

Quarterly Sampling Report

Second Quarter 2008

49-55 Dupont Street, Brooklyn, New York 11222
NYSDEC SPILL # 06-01852

Prepared By:

Advanced Site Restoration, LLC
62 William Street, New York N.Y. 10005

Prepared For:

49 Dupont Realty Corporation
49-55 Dupont St., Brooklyn, New York 11222

Steven Muller, CEC
Project Technician

Christopher Tomasello, IH
Project Manager

August 2008

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1.0 INTRODUCTION

Advanced Site Restoration, LLC (ASR) has developed this Quarterly Sampling Report on behalf of 49 Dupont Realty Corporation for 49-55 Dupont Street in Brooklyn New York (the subject site). The purpose of this report is to provide an update on the ongoing site investigation and Interim Remedial Measure (IRM) taking place at the site.

In August 2008, ASR conducted groundwater monitoring and sampling to provide an updated status of the contaminant plume. ASR began the subsurface investigation at the site in July 2006, and has since performed monthly monitoring and quarterly sampling. In addition, ASR has performed LNAPL recovery and removal from specially designated recovery wells and monitoring wells. All on-site activities have been documented thus far, and are attached as Appendix-B.

As per the August 2008 groundwater monitoring and sampling activities, the contaminant plume is contained and stable. The level of LNAPL in the wells was found to be decreasing as the LNAPL removal program continues. All groundwater monitoring wells free of LNAPL, including two (2) down gradient wells, were sampled, and analysis indicated that no VOCs were detected in excess of the laboratory minimum detection limits.

2.0 SITE CHARACTERIZATION

2.1 Site Description

The site is legally identified as New York City Tax Block 2487, Tax Lots 1, 10, 12, 17, 18, 20, 21, 57, 72, and 78. The current owner since 1983 is 49 Dupont Realty Corporation. The site is a former manufacturing facility. The New York City Department of Finance Occupancy Code is “F-9, Factory Industrial.” According to the Sanborn Map Report from Environmental Data Resources, Inc. (EDR), industrial activity at the site dates back to 1887.

Historic use of the site has included manufacturing, office, storage, shipping and receiving. More recently, the site had been used as a plastic manufacturing facility since 1950. According to *FPM Group* who completed a Phase I Site Assessment, dated April 2005 for the site, reported that commercial uses prior to 1950 included a boiler shop for Logan Ironworks, two stable buildings, a gas and light fixture factory, a sheet metal works, a soap manufacturer, a water proofing manufacturer, and a scrap metal facility.

3.0 SITE INVESTIGATION RESULTS

3.1 Monitoring Well Gauging

On August 21, 2008 ASR measured the depth to water, and monitored for the presence of LNAPL at the site and the surrounding area. A total of twenty five (25) wells were monitored. LNAPL (Light Non-Aqueous Phase Liquid) was detected in sixteen (16) of the twenty five (25) wells (MW-3, MW-4, MW-5, MW-6, MW-7 MW-9 MW-15, MW-16, RW-2, RW-3, RW-4, RW-5, RW-6, RW-7, RW-8, RW-9 and RW-10). The LNAPL in thirteen (13) of the sixteen (16) wells were at or below 12 inches thick, MW- 5 had 2.18 ft and RW-8 had 1.45 ft of LNAPL, MW-9 readings were not recorded due to the product thickness in well. Based on the monitoring results the LNAPL plume appears to be contained to the west and north east sections of the site. Although LNAPL was detected beneath the sidewalk adjacent to the site, it was not detected in either of the two (2) down gradient wells, (MW-12 and MW-13).

The depth to groundwater was detected at a range of 7.35 ft to 15.10 ft. A previous groundwater survey indicated that the groundwater flow direction is in a north westerly direction. The location of all groundwater monitoring wells is shown on the Monitoring Well Location Map, Appendix-A Figure – 2. All monitoring data is attached as Appendix-B, *Monitoring Well Gauging Data*.

3.2 Monitoring Well Sampling

On August 21, 2008 ASR sampled eight (8) groundwater monitoring wells and one (1) recovery well (MW-2, MW-3, MW-8, MW-10, MW-12, MW-13, MW-14 and RW-1). New disposable polyethylene tubing was used with a peristaltic pump for sample collection. Three volumes of purged water were removed from monitoring wells prior to sampling. The groundwater samples were submitted to York Analytical Laboratories, Inc. and analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8260 Stars and Semi Volatile Organic Compounds (SVOCs) using EPA Method 8270 Stars. All sampling data is attached in Appendix-B, *Groundwater Dissolved Constituent Sampling.*

3.3 Sampling Analysis

Bis (2-ethylhexyl) Phthalate has historically been detected as both LNAPL and a dissolved constituent in previous groundwater sampling activities. The August 2008 groundwater analytical results indicated that phthalates were not detected in

any of the eight (8) groundwater samples collected. 1,2-Dichloroethylene and Trichloroethylene in MW-8 were above method detected. A low trace of Trichloroethylene was found in MW-10. No other VOC's were detected in any of the eight (8) sampled groundwater monitoring wells.

3.4 LNAPL Removal Program

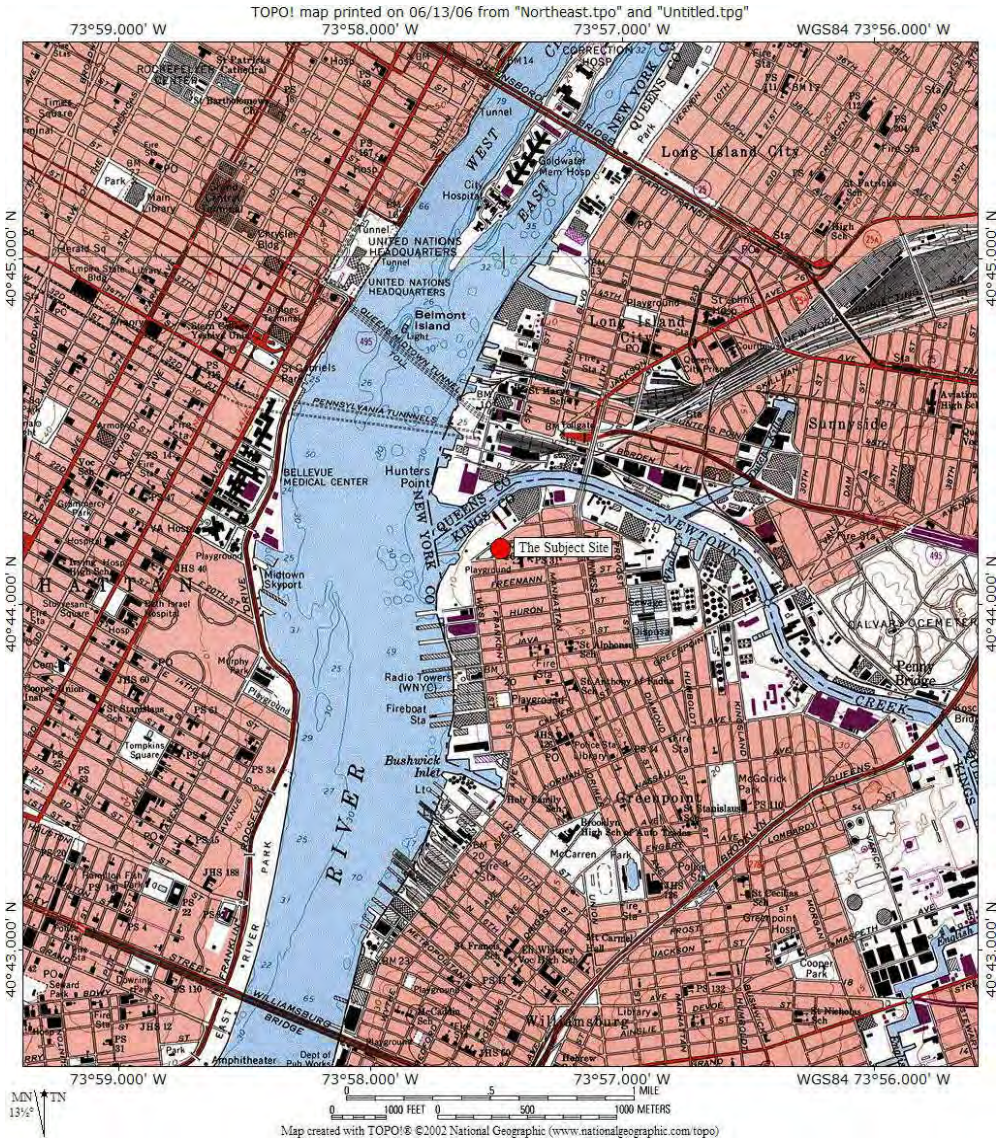
In November 2006, ASR implemented an Interim Remedial Measure (IRM) which included the recovered LNAPL by both mechanical and hand bailing methods. This IRM has continued uninterrupted removing a combination of phthalates and #4 Fuel Oil. Since November 2006 product has been recovered from RW-2, RW-3, RW-5, RW-7, RW-8, RW-9, RW-10, and monitoring wells MW-5, MW-6. Additional monitoring wells MW-15 and MW-16 were recently added to the LNAPL removal program in May 2007 along with RW-7 containing the fuel oil which was added in October 2007. Approximately 1044 gallons of LNAPL was recovered in the third quarter of 2008 using *Spillbuster Inc.* pumps and hand bailing. A total of approximately 6,247 gallons has been recovered from the ground as of the date of this report. On August 16, 2007, 3,200 gallons of LNAPL was recovered from the site using a vacuum truck. On February 7 2008 an additional 3,115 gallons of recovered phthalates was removed from the site by a vacuum truck. The manifest is attached in Appendix-D. Additional product continues to be recovered from the ground and stored on site. The product recovery data is located in Appendix - B Table - 2.

4.0 CONCLUSION

As per the August 2008 groundwater monitoring and sampling activities, the contaminant plume is contained and stable. LNAPL continues to be detected at the subject site, ranging in from a sheen to 2 ft in thickness. The levels of LNAPL in the wells were found to be decreasing as the LNAPL removal program continues. All groundwater monitoring wells free of LNAPL were sampled and analyzed.

ASR will continue to perform monthly monitoring and quarterly sampling of all groundwater monitoring wells to monitor the status of the identified contamination. ASR will also continue to perform the product recovery program as an ongoing IRM, and continue to provide updated status reports on the progress of this program.

APPENDIX - A



ADVANCED Site Restoration, LLC.
Environmental Services

62 William St., 3rd Floor, New York, NY 10005
Tel: 212-809-1110 Fax: 212-809-1779 info@askasr.com

Figure - 1
Site Location Map
49-55 Dupont Street
Brooklyn, New York 11222

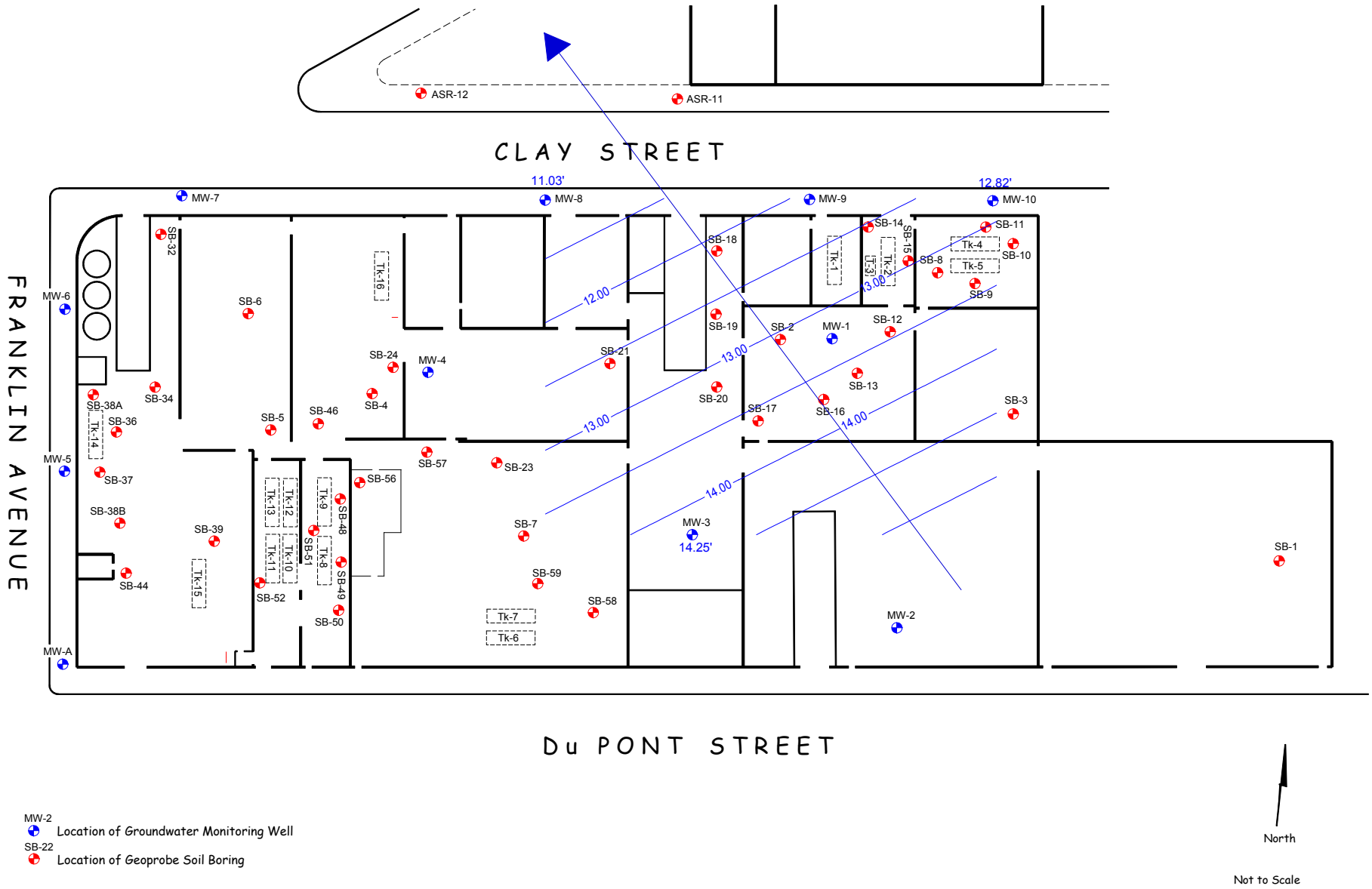
ADVANCED Site Restoration, LLC.
Environmental Services

62 William St., 3rd Floor, New York, NY 10005
Tel: 212-809-1110 Fax: 212-809-1779 info@askasr.com

SWM

Figure - 2
Well Location Map
December 2007

49 Dupont Realty Corp.
49 - 55 Dupont Street
Brooklyn, New York



MW-2
Location of Groundwater Monitoring Well
SB-22
Location of Geoprobe Soil Boring

North

Not to Scale

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Figure - 3
Groundwater Gradient Map
August 1, 2006

SWM

Rev: 08/23/06

49 Dupont Realty Corp.
49 - 55 Dupont Street
Brooklyn, New York

APPENDIX - B

ADVANCED SITE RESTORATION, LLC
ENVIRONMENTAL SERVICES

MONTHLY MONITORING REPORT

Site Address:	*NuHart & Company, Inc.* *49- 55 Dupont Street* *Brooklyn, New York*	**Regulatory Agency:** **Regulatory Contact:** **Spill File:**	*NYSDEC (Region II)* *Raphael Katani* *06-01852*
Prepared for:	*49 Dupont Realty Corp.* *Brooklyn, New York*	**Dupont Contact** **ASR Contact**	*Joe Folkman* *Steven Muller*

Report Date	*July, 2008*
Current Site Status	*Former Manufacturing Facility*
Monitoring Period	*July 2008*
Well Information	
Number/Type:	*15 - 2 inch diameter monitoring wells* *10 - 4 inch diameter recovery wells*
Groundwater Monitoring	
Gauging Frequency:	*Monthly*
Sampling Frequency:	*Quarterly*
Wells containing LNAPL:	*14*
LNAPL Thickness (max):	
Total BTEX:	*<MDL (April 2008)*
MtBE:	*<MDL (April 2008)*
Groundwater Depth:	*8.01 ft to 15.23 ft*
Groundwater Flow Direction:	*Northwesterly*
Surrounding Land Use:	
North:	*Hardware Store/Warehouse*
South:	*Residential Homes*
East:	*Multi-Family Residential Buildings*
West:	*New York City Lot*

Remedial Activities: *An Interum Remedial Measure consisting of two continous operating product only pumps and daily hand bailing is on-going.*

Reviewed By: Richard Levato

Reviewed By: Steven Muller, CEC

Table-1
49 Dupont Street
Brooklyn, New York

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-1	*5/10/2006*	*25.19*	*10.89*	*10.88*	*0.01*	*14.30*
	11/20/2006		*10.83*	*10.79*	*0.04*	*14.36*
	6/18/2007		*10.70*	*10.68*	*0.02*	*14.49*
	8/13/2007		*10.30*	*10.25*	*0.05*	*14.89*
	9/24/2007		*11.14*	*11.12*	*0.02*	*14.05*
	10/21/2007		*11.32*	*11.34*	*0.02*	*13.87*
	11/23/2007		*11.32*	*11.31*	*0.01*	*13.87*
	12/14/2007		*11.48*	*11.47*	*0.01*	*13.71*
	1/11/2008		*11.09*	*11.08*	*0.01*	*14.10*
	2/28/2008		*11.19*			*14.00*
	3/24/2008		*10.85*			*14.34*
	4/7/2008		*10.95*	*Sheen*		*14.24*
	5/12/2008		*10.87*			*14.32*
	6/4/2008		*10.92*			*14.90*
	7/25/2008		*11.30*			*13.89*
	8/21/2008		*11.71*			*13.48*
MW-2	*5/10/2006*	*25.34*	*11.78*	*----*	*----*	*13.56*
	11/20/2006		*NA*			
	4/25/2007		*7.66*			*17.68*
	5/10/2007		*8.64*			*16.70*
	6/18/2007		*9.66*			*15.68*
	8/13/2007		*8.30*			*17.04*
	9/24/2007		*10.20*			*15.14*
	10/21/2007		*10.44*			*14.90*
	11/23/2007		*10.59*			*14.75*
	12/14/2007		*10.76*			*14.58*
	1/11/2008		*10.37*			*14.97*
	2/28/2008		*10.10*			*15.24*
	3/24/2008		*9.90*			*15.44*
	4/7/2008		*9.94*			*15.40*
	5/12/2008		*9.97*			*15.37*
	6/4/2008		*10.05*			*15.30*
	7/25/2008		*10.49*			*14.85*
	8/21/2008		*10.72*			*14.52*
MW-3	*5/10/2006*	*25.52*	*9.83*	*----*	*----*	*15.69*
	8/10/2006		*11.27*	*----*	*----*	*14.25*
	11/20/2006		*NA*			
	4/25/2007		*10.98*			*14.54*
	5/10/2007		*9.50*			*16.02*
	6/18/2007		*11.53*			*13.99*
	8/13/2007		*11.01*			*14.51*
	9/24/2007		*11.94*			*13.68*
	10/21/2007		*12.26*			*13.36*
	11/23/2007		*12.45*			*13.07*
	12/14/2007		*12.75*			*12.77*
	1/11/2008		*12.34*			*13.18*
	2/28/2008		*12.11*			*13.41*
	3/24/2008		*11.97*			*13.55*
	4/7/2008		*12.03*			*13.49*
	5/12/2008		*21.08*			*4.44*
	6/4/2008		*12.06*			*13.46*
	7/25/2008		*12.35*			*13.17*
	8/21/2008		*12.52*			*13.00*
MW-4	*5/10/2006*	*25.62*	*13.90*	*12.28*	*1.62*	*11.72*
	11/20/2006		*13.56*	*12.28*	*1.28*	*12.06*
	5/10/2007		*11.92*	*11.80*	*0.12*	*13.70*
	6/18/2007		*12.55*	*12.37*	*0.18*	*13.07*
	8/13/2007		*12.42*	*12.07*	*0.35*	*13.20*
	9/24/2007		*12.98*	*12.78*	*0.20*	*12.63*
	10/21/2007		*13.02*	*13.14*	*0.12*	*12.60*
	11/23/2007		*13.14*	*13.13*	*0.01*	*12.48*
	12/14/2007		*13.31*	*13.29*	*0.02*	*12.31*
	1/11/2008		*12.88*	*12.87*	*0.01*	*12.74*
	2/28/2008		*13.25*	*13.15*	*0.10*	*12.37*
	3/24/2008		*13.10*	*12.55*	*0.55*	*12.52*
	4/7/2008		*12.79*	*12.69*	*0.10*	*12.83*
	5/12/2008		*12.82*	*12.68*	*0.14*	*12.80*
	6/4/2008		*12.90*	*12.70*	*0.20*	*12.72*
	7/25/2008		*12.70*			*12.92*
	8/21/2008		*12.75*	*Sh*	*Sh*	*12.87*

Table-1
49 Dupont Street
Brooklyn, New York

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-5	8/10/2006	19.57	14.90	9.11	5.79	4.67
	11/20/2006		10.30	9.17	1.13	9.27
	5/10/2007		9.29	8.82	0.47	10.28
	6/18/2007		12.25	9.27	2.98	7.32
	8/13/2007		9.70	9.16	0.54	9.87
	9/24/2007		11.79	9.70	2.09	7.78
	10/21/2007		15.04	9.71	5.33	4.43
	11/23/2007		15.51	9.81	5.70	4.06
	12/14/2007		14.81	9.88	4.93	4.76
	1/11/2008		9.64	9.61	0.03	9.93
	2/28/2008		12.15	9.92	3.00	7.42
	3/24/2008		14.35	11.74	2.61	5.22
	4/7/2008		12.92	10.74	2.18	6.65
	5/12/2008		14.10	9.38	4.72	5.47
	6/4/2008		13.32	9.50	3.82	6.25
	7/25/2008		14.10	9.38	4.72	5.47
	8/21/2008		13.92	10.85	3.13	5.55
MW-6	8/10/2006	18.62	12.00	8.28	3.72	6.62
	11/20/2006		8.85	8.23	0.62	9.77
	5/10/2007		8.41	7.87	0.54	10.21
	6/18/2007		9.34	9.07	0.27	9.28
	8/13/2007		10.25	8.69	1.56	8.37
	9/24/2007		9.82	9.45	0.37	8.79
	10/21/2007		9.99	9.62	0.37	8.63
	11/23/2007		9.76	9.06	0.70	8.86
	12/14/2007		9.68	9.13	0.55	8.94
	1/11/2008		8.91	8.85	0.06	9.71
	2/28/2008		9.09	8.98	0.11	9.53
	3/24/2008		8.76	8.02	0.74	9.86
	4/7/2008		8.89	7.98	0.91	9.73
	5/12/2008		9.32	8.65	0.67	9.30
	6/4/2008		9.04	8.73	0.31	9.58
	7/25/2008		9.04			9.58
	8/21/2008		9.10	Sheen	Sheen	9.52
MW-7	8/10/2006	18.75	10.52	8.62	1.90	8.23
	11/20/2006		8.80	8.52	0.28	9.95
	5/10/2007		8.33	8.21	0.12	10.42
	6/18/2007		9.12	8.66	0.46	9.63
	8/13/2007		9.50	8.65	0.85	9.25
	9/24/2007		9.71	9.10	0.61	9.04
	10/21/2007		9.48	9.14	0.34	9.27
	11/23/2007		9.79	9.13	0.66	8.96
	12/14/2007		9.65	9.32	0.33	9.10
	1/11/2008		9.10	9.08	0.02	9.65
	2/28/2008		9.23	9.03	0.20	9.52
	3/24/2008		8.96	8.84	0.12	9.79
	4/7/2008		9.33	9.24	0.09	9.42
	5/12/2008		9.15	8.79	0.36	9.60
	6/4/2008		Did Not Monitor			
	7/25/2008		9.15	8.79	0.36	9.60
	8/21/2008		9.20	8.80	0.40	9.55
MW-8	8/10/2006	20.26	9.46	----	----	10.80
	11/20/2006		NA			
	5/10/2007		8.86			11.40
	6/18/2007		9.40			10.86
	8/13/2007		9.45			10.81
	9/24/2007		9.78			10.48
	10/21/2007		10.03			10.23
	11/23/2007		10.16			10.10
	12/14/2007		10.21			10.05
	1/11/2008		9.96			10.30
	2/28/2008		9.76			10.50
	3/24/2008		9.62			10.64
	4/7/2008		9.74			10.52
	5/12/2008		9.76			10.50
	6/4/2008		Did Not Monitor			
	7/25/2008		10.07			10.19
	8/21/2008		10.20			10.06

Table-1
49 Dupont Street
Brooklyn, New York

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-9	*8/10/2006*	*20.62*	*10.22*	*7.88*	*2.34*	*10.40*
	11/20/2006		*LNAPL*			
	6/18/2007		*too thick*			
	8/13/2007		*too thick*			
	9/24/2007		*unknown*	*8.79*		
	10/21/2007		*too thick*			
	11/23/2007		*9.33*	*9.29*	*0.04*	*11.29*
	12/14/2007		*too thick*			
	1/11/2008		*9.21*	*9.18*	*0.03*	*11.41*
	2/28/2008		*9.32*	*9.02*	*0.30*	*11.30*
	3/24/2008		*too thick*			
	4/7/2008		*too thick*			
	5/12/2008		*9.15*	*8.90*	*0.25*	*11.47*
	6/4/2008		*Did Not Monitor*			
	7/25/2008		*9.85*	*8.90*	*0.95*	*10.77*
	8/21/2008		*9.91*	*9.87*	*0.04*	*10.71*
MW-10	*8/1/2006*	*21.04*	*8.22*	*----*	*----*	*12.82*
	5/10/2007		*7.97*			*13.07*
	6/18/2007		*8.25*			*12.79*
	9/24/2007		*8.69*			*12.79*
	10/21/2007		*8.64*			*12.40*
	11/23/2007		*8.88*			*12.16*
	12/14/2007		*8.96*			*12.08*
	1/11/2008		*8.63*			*12.41*
	2/28/2008		*8.42*			*12.62*
	3/24/2008		*8.37*			*12.67*
	4/7/2008		*8.45*			*12.59*
	5/12/2008		*8.41*			*12.63*
	6/4/2008		*Did Not Monitor*			
	7/25/2008		*8.79*			*12.25*
	8/21/2008		*9.19*			
MW-11	*9/19/2006*	*17.01*	*7.07*	*----*	*----*	*9.94*
	11/20/2006					
	5/10/2007		*DESTROYED*			
MW-12	*9/19/2006*	*16.99*	*7.10*	*----*	*----*	*9.89*
	11/20/2006					
	5/10/2007		*6.89*			*10.10*
	8/13/2007		*6.57*			*10.42*
	9/24/2007		*7.74*			*9.25*
	10/21/2007		*7.61*			*9.38*
	11/23/2007		*7.64*			*9.35*
	12/14/2007		*7.21*			*9.78*
	1/11/2008		*7.37*			*9.62*
	2/28/2008		*7.47*			*9.52*
	3/24/2008		*7.38*			*9.61*
	4/7/2008		*7.40*			*9.59*
	5/12/2008		*7.13*			*9.86*
	6/4/2008		*7.36*			*9.63*
	7/25/2008		*7.82*			*9.17*
	8/21/2008		*7.94*			*9.05*

Table-1
49 Dupont Street
Brooklyn, New York

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-13	9/19/2006	17.20	7.16	----	----	10.04
	11/20/2006					
	5/10/2007		6.87			10.33
	8/13/2007		6.51			10.69
	9/24/2007		7.89			9.31
	10/21/2007		7.72			9.48
	11/23/2007		7.77			9.43
	12/14/2007		7.33			9.87
	1/11/2008		7.52			9.68
	2/28/2008		7.40			9.80
	3/24/2008		7.27			9.93
	4/7/2008		7.35			9.85
	5/12/2008		7.09			10.11
	6/4/2008		7.50			9.70
	7/25/2008		8.01			9.19
	8/21/2008		8.00			9.20
MW-14	9/19/2006	18.23	8.11	----	----	10.12
	5/10/2007		7.60			10.63
	8/13/2007		8.23			10.00
	9/24/2007		8.52			9.71
	10/21/2007		8.61			9.62
	11/23/2007		8.71			9.52
	12/14/2007		NA			----
	1/11/2008		8.53			9.70
	2/28/2008		8.32			9.91
	3/24/2008		8.15			10.08
	4/7/2008		8.30			9.93
	5/12/2008		8.20			10.03
	6/4/2008		8.35			9.88
	7/25/2008		8.65			9.58
	8/21/2008		9.20			9.03
MW-15	5/10/2007	NA	10.83	9.35	1.48	----
	5/23/2007		9.72	9.70	0.02	----
	6/18/2007		10.02	9.93	0.09	----
	8/13/2007		9.70	9.16	0.54	----
	9/24/2007		10.73	10.32	0.41	----
	10/21/2007		11.37	10.44	0.07	----
	11/23/2007		NA			----
	12/14/2007		11.15	10.63	0.52	----
	1/11/2008		10.39	10.37	0.02	----
	2/28/2008		10.36	10.18	0.18	----
	3/24/2008		10.19	10.05	0.14	----
	4/7/2008		10.94	10.17	0.77	----
	5/12/2008		10.45	10.13	0.32	----
	6/4/2008		Did Not Monitor			
	7/25/2008		10.45	10.13	0.32	----
	8/21/2008		10.47	10.41	0.06	
MW-16	5/10/2007	NA	11.07	9.98	1.09	----
	5/23/2007		10.54	10.31	0.23	----
	6/18/2007		11.27	10.59	0.68	----
	8/13/2007		11.81	10.46	1.35	----
	9/24/2007		11.03	11.09	0.06	----
	10/21/2007		11.16	11.14	0.02	----
	11/23/2007		NA			----
	12/14/2007		11.35	11.32	0.03	----
	1/11/2008		11.06	11.05	0.01	----
	2/28/2008		11.00	10.85	0.15	----
	3/24/2008		10.91	10.71	0.20	----
	4/7/2008		10.96	10.17	0.79	----
	5/12/2008		10.85	10.32	0.53	----
	6/4/2008		Did Not Monitor			----
	7/25/2008		10.85	10.32	0.53	----
	8/21/2008		10.91	10.87	0.04	

Table-1
49 Dupont Street
Brooklyn, New York

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
RW-1	*11/20/2006*	*NA*	*8.38*			----
	4/25/2007		*7.57*			----
	5/10/2007		*8.04*			----
	6/18/2007		*8.57*			----
	9/24/2007		*9.10*			----
	10/21/2007		*9.17*			----
	11/23/2007		*9.31*			----
	12/14/2007		*9.22*			----
	1/11/2008		*13.06*			----
	2/28/2008		*8.83*			----
	3/24/2008		*8.73*			----
	4/7/2008		*8.84*			----
	5/12/2008		*8.74*			----
	6/4/2008		*8.85*			----
	7/25/2008		*9.16*			----
	8/21/2008		*9.23*			
RW-2	*4/25/2007*	*NA*	*12.46*	*12.45*	*0.01*	----
	5/10/2007		*12.91*	*12.71*	*0.20*	----
	10/21/2007		*14.09*	*13.85*	*0.24*	----
	11/23/2007		*15.81*	*14.51*	*1.30*	----
	12/14/2007		*15.22*	*13.85*	*1.37*	----
	1/11/2008		*13.64*	*13.31*	*0.33*	----
	2/28/2008		*13.44*	*13.26*	*0.18*	----
	3/24/2008		*13.52*	*13.16*	*0.36*	----
	4/7/2008		*13.25*	*13.01*	*0.24*	----
	5/12/2008		*13.60*	*13.36*	*0.24*	----
	6/4/2008		*Did Not Monitor*			----
	7/25/2008		*13.60*	*13.36*	*0.24*	----
	8/21/2008		*13.65*	*13.28*	*0.37*	
RW-3	*4/25/2007*	*NA*	*13.84*	*13.60*	*0.24*	----
	5/10/2007		*14.17*	*14.00*	*0.17*	----
	6/18/2007		*15.40*	*14.53*	*0.87*	----
	9/24/2007		*15.63*	*14.96*	*0.67*	----
	10/21/2007		*15.73*	*15.12*	*0.51*	----
	11/23/2007		*16.51*	*15.15*	*1.36*	----
	12/14/2007		*15.55*	*13.33*	*2.22*	----
	1/11/2008		*14.94*	*14.71*	*0.23*	----
	2/28/2008		*14.99*	*14.39*	*0.60*	----
	3/24/2008		*15.30*	*14.70*	*0.60*	----
	4/7/2008		*14.96*	*14.40*	*0.56*	----
	5/12/2008		*15.23*	*14.75*	*0.48*	----
	6/4/2008		*Did Not Monitor*			----
	7/25/2008		*15.23*	*14.75*	*0.48*	----
	8/21/2008		*15.31*	*15.01*	*0.30*	
RW-4	*11/20/2006*	*NA*	*16.47*	*14.49*	*1.98*	----
	4/25/2007		*14.15*	*13.75*	*0.40*	----
	5/10/2007		*14.44*	*14.10*	*0.34*	----
	6/18/2007		*14.85*	*14.62*	*0.23*	----
	9/24/2007		*16.87*	*15.29*	*1.58*	----
	10/21/207		*15.74*	*15.45*	*0.29*	----
	11/23/2007		*15.88*	*15.42*	*0.46*	----
	12/14/2007		*15.84*	*15.48*	*0.36*	----
	1/11/2008		*15.19*	*15.04*	*0.15*	----
	2/28/2008		*15.06*	*14.84*	*0.22*	----
	3/24/2008		*15.14*	*14.85*	*0.29*	----
	4/7/2008		*15.10*	*14.92*	*0.18*	----
	5/12/2008		*15.22*	*14.83*	*0.39*	----
	6/4/2008		*Did Not Monitor*			----
	7/25/2008		*15.22*	*14.38*	*0.84*	----
	8/21/2008		*15.23*	*15.20*	*0.03*	

Table-1
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Brooklyn, New York

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
RW-5	11/20/2006	NA	13.64	13.53	0.11	----
	4/25/2007		12.75	12.60	0.15	----
	5/10/2007		13.10	13.02	0.08	----
	6/18/2007		13.60	13.55	0.05	----
	9/24/2007		14.24	13.94	0.30	----
	10/21/2007		14.23	14.11	0.12	----
	11/23/2007		14.23	14.13	0.10	----
	12/14/2007		14.75	14.26	0.49	----
	1/11/2008		13.94	13.81	0.13	----
	2/28/2008		14.01	14.00	0.01	----
	3/24/2008		14.35	14.12	0.23	----
	4/7/2008		14.21	14.20	0.01	----
	5/12/2008		13.58	13.56	0.02	----
	6/4/2008		13.32	9.50	3.82	----
	7/25/2008		13.32	9.50	3.82	----
	8/21/2008		13.34	11.25	2.09	
RW-6	4/25/2007	NA	10.69			----
	5/10/2007		11.08			----
	6/18/2007		11.58			----
	9/24/2007		12.77	11.94	0.83	----
	10/21/2007		12.92	12.11	0.81	----
	11/23/2007		12.85	12.14	0.71	----
	12/14/2007		12.78	12.21	0.57	----
	1/11/2008		11.96	11.71	0.25	----
	2/28/2008		12.14	11.55	0.59	----
	3/24/2008		12.02	11.98	0.04	----
	4/7/2008		12.11	12.01	0.10	----
	5/12/2008		11.77	11.74	0.03	----
	6/4/2008		11.86	SHEEN		----
	7/25/2008		12.17	SHEEN		----
	8/21/2008		12.01	Sheen		
RW-7	11/20/2006	NA	LNAPL			----
	9/24/2007		unknown	9.05		----
	10/21/2007		9.51	too thick		----
	11/23/2007		9.83	9.77	0.06	----
	12/14/2007		9.80	too thick		----
	1/11/2008		9.26	9.22	0.04	----
	2/28/2008		9.35	9.27	0.08	----
	3/24/2008		too thick			----
	4/7/2008		9.22	9.06	0.16	----
	5/12/2008		too thick			----
	6/4/2008		too thick			----
	7/25/2008		9.22	9.06	0.16	----
	8/21/2008		9.28	9.18	0.10	
RW-8	4/25/2007	NA	12.60	12.35	0.25	----
	5/10/2007		13.11	12.78	0.33	----
	6/18/2007		14.36	13.25	1.11	----
	8/13/2007					----
	9/24/2007		15.95	13.65	2.30	----
	10/21/207		NS			----
	11/23/2007		14.45	13.98	0.47	----
	12/14/2007		14.78	13.95	0.83	----
	1/11/2008		13.69	13.44	0.25	----
	2/28/2008		15.22	13.87	1.35	----
	3/24/2008		14.97	13.86	1.11	----
	4/7/2008		15.01	13.56	1.45	----
	5/12/2008		14.28	13.45	0.83	----
	6/4/2008		Did Not Monitor			----
	7/25/2008		14.28	13.45	0.83	----
	8/21/2008		14.30	13.85	0.45	

Table-1
49 Dupont Street
Brooklyn, New York

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
RW-9	*4/25/2007*	*NA*	*12.10*	*11.95*	*0.15*	----
	5/10/2007		*12.59*	*12.36*	*0.23*	----
	6/18/2007		*13.60*	*12.83*	*0.77*	----
	8/13/2007					----
	9/24/2007		*14.80*	*13.30*	*1.50*	----
	10/21/2007		*NS*			----
	11/23/2007		*13.97*	*13.23*	*0.74*	----
	12/14/2007		*14.15*	*13.59*	*0.56*	----
	1/11/2008		*13.31*	*13.19*	*0.12*	----
	2/28/2008		*13.26*	*12.78*	*0.48*	----
	3/24/2008		*13.31*	*12.58*	*0.73*	----
	4/7/2008		*13.41*	*12.42*	*0.99*	----
	5/12/2008		*13.44*	*13.03*	*0.41*	----
	6/4/2008		*Did Not Monitor*			----
	7/25/2008		*13.44*	*13.03*	*0.41*	----
	8/21/2008		*13.50*	*13.25*	*0.25*	
RW-10	*4/25/2007*	*NA*	*11.76*	*11.64*	*0.12*	----
	5/10/2007		*12.13*	*12.05*	*0.08*	----
	8/13/2007		*pump*			----
	9/24/2007		*pump*			----
	10/21/2007		*pump*			----
	11/23/2007		*13.89*	*13.18*	*0.71*	----
	12/14/2007		*13.72*	*13.31*	*0.41*	----
	1/11/2008		*13.28*	*13.14*	*0.14*	----
	2/28/2008		*13.43*	*13.39*	*0.04*	----
	3/24/2008		*13.26*	*13.19*	*0.07*	----
	4/7/2008		*13.33*	*13.21*	*0.12*	----
	5/12/2008		*13.40*	*13.33*	*0.07*	----
	6/4/2008		*Did Not Monitor*			
	7/25/2008		*13.40*	*13.33*	*0.07*	----
	8/21/2008		*13.46*	*12.85*	*0.61*	

Table-2
49 Dupont Street
Brooklyn, New York

Well Number	Sampling Date	Benzene	Toluene	Ethylbenzene	Total Xylene	MtBE	Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate
MW-1	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	7/18/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	10/24/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	1/11/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	4/7/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	8/21/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
MW-2	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	60	<MDL
	7/18/2007	<MDL	<MDL	<MDL	<MDL	<MDL	77	<MDL
	10/24/2007	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	1/11/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	4/7/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	8/21/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
MW-3	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	31	<MDL
	7/18/2007	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	10/24/2007	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	1/11/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	4/7/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	8/21/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
MW-4	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	120,000 P	160,000 P
	7/18/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	10/24/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	1/11/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	4/7/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
MW-5	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	780,000 P	90,000 P
	7/18/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	10/24/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	1/11/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	4/7/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
MW-6	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	1,300,000 P	<MDL
	7/18/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	10/24/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	1/11/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	4/7/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
MW-7	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	370,000 P	<MDL
	7/18/2007	NT	NT	NT	NT	NT	4,600 P	<MDL
	10/24/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	1/11/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	4/7/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL

<MDL = Parameter below method detection limit
NA = Well not Accessible
NT = Not Tested
P = These wells developed free product shortly after sampling and are no longer sampled for dissolved constituents

Table-2
49 Dupont Street
Brooklyn, New York

Well Number	Sampling Date	Benzene	Toluene	Ethylbenzene	Total Xylene	MtBE	Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate
MW-8	*7/24/2006*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*89*	*<MDL*
	7/18/2007	*NT*	*NT*	*NT*	*NT*	*NT*	*230*	*<MDL*
	10/24/2007	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	1/11/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*22*	*<MDL*
	4/7/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	8/21/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
MW-9	*7/24/2006*	*<MDL*	*<MDL*	*11*	*11*	*<MDL*	*<MDL*	*<MDL*
	7/18/2007	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
	10/24/2007	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
	1/11/2008	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
	4/7/2008	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
MW-10	*7/24/2006*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*6*	*<MDL*
	7/18/2007	*NT*	*NT*	*NT*	*NT*	*NT*	*57*	*<MDL*
	10/24/07	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	1/11/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*99*	*<MDL*
	4/7/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	8/21/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
MW-11	*9/18/2006*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	DESTROYED	*DESTROYED*	*DESTROYED*	*DESTROYED*	*DESTROYED*	*DESTROYED*	*DESTROYED*	*DESTROYED*
MW-12	*9/18/2006*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*17*	*<MDL*
	7/18/2007	*NT*	*NT*	*NT*	*NT*	*NT*	*ND*	*<MDL*
	10/24/2007	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	1/11/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*14*	*<MDL*
	4/7/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	8/21/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
MW-13	*9/18/2006*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	7/18/2007	*NT*	*NT*	*NT*	*NT*	*NT*	*<MDL*	*<MDL*
	10/24/2007	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	1/11/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*170*	*<MDL*
	4/7/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	8/21/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*

<MDL = Parameter below method detection limit
NA = Well not Accessible
NT = Not Tested
P = These wells developed free product shortly after sampling and are no longer sampled for dissolved constituents

Table-2
49 Dupont Street
Brooklyn, New York

Well Number	Sampling Date	Benzene	Toluene	Ethylbenzene	Total Xylene	MtBE	Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate
MW-14	*9/18/2006*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	7/18/2007	*NT*	*NT*	*NT*	*NT*	*NT*	*<MDL*	*<MDL*
	10/24/2007	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	1/11/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*86*	*<MDL*
	4/7/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	8/21/2008							
MW-15	*12/7/2006*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*6,400*	*<MDL*
	7/18/2007	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
	10/24/2007	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
MW-16	*12/7/2006*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*990*
	7/18/2007	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
	10/24/2007	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
RW-1	*7/18/2007*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	4/7/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
RW-6	*7/18/2007*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*40*	*<MDL*

<MDL = Parameter below method detection limit
NA = Well not Accessible
NT = Not Tested
P = These wells developed free product shortly after sampling and are no longer sampled for dissolved constituents

Table-3
49 Dupont Street
Brooklyn, New York

Well Number	RW-2	RW-3	RW-4	RW-5	RW-7	RW-8	RW-9	RW-10	MW-4	MW-5	MW-6	MW-7	MW-9	MW-15	MW-16	TOTAL
Nov-06	100	60	0	0	0	0	0	0	27	1	0	0	0	0	0	188
Dec-06	92	67	0	0	0	5	6	168	1	0	0	0	0	0	0	339
Jan-07	80	93	0	0	0	25	13	144	1	5	5	0	0	0	0	366
Feb-07	98	87	0	0	0	16	20	158	0	0	0	0	0	0	0	379
Mar-07	79	95	0	0	0	14	16	167	0	0	0	0	0	0	0	371
Apr-07	76	92	27	0	0	42	15	165	6	27	26	0	0	0	0	476
May-07	72	96	32	0	0	46	17	175	7	28	26	0	0	4	0	503
Jun-07	75	90	2	0	0	39	21	166	1	25	26	0	0	1	0	446
Jul-07	67	82	3	0	0	38	23	154	1	28	29	0	0	1	0	426
Aug-07	47	89	0	0	0	38	22	166	0	16	17	0	0	8	8	411
Sep-07	15	43	0	0	0	36	19	146	0	22	9	0	0	4	4	298
Oct-07	27	87	0	9	2	27	14	120	0	20	14	1	0	3	0	324
Nov-07	23	52	0	10	4	22	26	110	0	22	8	1	2	1	1	282
Dec-07	20	35	0	8	2	25	15	108	0	18	2	0	1	1	0	235
Jan-08	37	12	0	16	13	24	40	148	0	14	21	24	0	6	1	356
Feb-08	28	11	0	14	15	21	16	99	0	12	23	12	0	0	0	251
Mar-08	24	12	0	9	8	22	15	142	0	18	22	16	0	0	0	288
Apr-08	29	12	0	8	9	25	17	151	0	28	16	13	0	0	0	308
May-08	34	11	4	0	1	28	9	106	0	18	28	0	0	0	0	239
Jun-08	25	10	5	1	2	37	10	120	0	20	25	0	10	0	0	265
Jul-08	35	12	2	2	3	32	11	125	0	21	30	0	0	0	0	273
Aug-08	28	13	2	2	2	35	17	110	0	21	28	0	6	2	1	267
Total =	1111	1161	77	79	61	597	362	2948	44	364	355	67	19	31	15	7291

APPENDIX - C

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Report Date: 8/29/2008
Re: Client Project ID: 49 Dupont
York Project No.: 08080810

CT License No. PH-0723 New Jersey License No. CT-005 New York License No. 10854

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 8/29/2008
Client Project ID: 49 Dupont
York Project No.: 08080810

Advanced Site Restoration
62 William St.
New York, NY 10005
Attention: Steve Muller

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/22/08. The project was identified as your project "49 Dupont".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW1		MW2	
York Sample ID			08080810-01		08080810-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	Not detected	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	5	Not detected	5
Isopropylbenzene			Not detected	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			Not detected	5	Not detected	5
n-Butylbenzene			Not detected	5	Not detected	5
n-Propylbenzene			Not detected	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			Not detected	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			Not detected	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5

YORK

Client Sample ID			MW1		MW2	
York Sample ID			08080810-01		08080810-02	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Semi-Volatiles, STARS List	SW846-8270	ug/L	---	---	---	---
Acenaphthene			Not detected	6.2	Not detected	5.6
Acenaphthylene			Not detected	6.2	Not detected	5.6
Anthracene			Not detected	6.2	Not detected	5.6
Benzo[a]anthracene			Not detected	6.2	Not detected	5.6
Benzo[a]pyrene			Not detected	6.2	Not detected	5.6
Benzo[b]fluoranthene			Not detected	6.2	Not detected	5.6
Benzo[g,h,i]perylene			Not detected	6.2	Not detected	5.6
Benzo[k]fluoranthene			Not detected	6.2	Not detected	5.6
Chrysene			Not detected	6.2	Not detected	5.6
Dibenz[a,h]anthracene			Not detected	6.2	Not detected	5.6
Fluoranthene			Not detected	6.2	Not detected	5.6
Fluorene			Not detected	6.2	Not detected	5.6
Indeno[1,2,3-cd]pyrene			Not detected	6.2	Not detected	5.6
Naphthalene			Not detected	6.2	Not detected	5.6
Phenanthrene			Not detected	6.2	Not detected	5.6
Pyrene			Not detected	6.2	Not detected	5.6

Client Sample ID			MW3		MW8	
York Sample ID			08080810-03		08080810-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	Not detected	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	5	Not detected	5
Isopropylbenzene			Not detected	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			Not detected	5	Not detected	5
n-Butylbenzene			Not detected	5	Not detected	5
n-Propylbenzene			Not detected	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			Not detected	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			Not detected	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5
Semi-Volatiles, STARS List	SW846-8270	ug/L	---	---	---	---
Acenaphthene			Not detected	6.7	Not detected	6.2
Acenaphthylene			Not detected	6.7	Not detected	6.2
Anthracene			Not detected	6.7	Not detected	6.2
Benzo[a]anthracene			Not detected	6.7	Not detected	6.2
Benzo[a]pyrene			Not detected	6.7	Not detected	6.2
Benzo[b]fluoranthene			Not detected	6.7	Not detected	6.2
Benzo[g,h,i]perylene			Not detected	6.7	Not detected	6.2
Benzo[k]fluoranthene			Not detected	6.7	Not detected	6.2
Chrysene			Not detected	6.7	Not detected	6.2
Dibenz[a,h]anthracene			Not detected	6.7	Not detected	6.2

YORK

Client Sample ID			MW3		MW8	
York Sample ID			08080810-03		08080810-04	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Fluoranthene			Not detected	6.7	Not detected	6.2
Fluorene			Not detected	6.7	Not detected	6.2
Indeno[1,2,3-cd]pyrene			Not detected	6.7	Not detected	6.2
Naphthalene			Not detected	6.7	Not detected	6.2
Phenanthrene			Not detected	6.7	Not detected	6.2
Pyrene			Not detected	6.7	Not detected	6.2

Client Sample ID			MW10		MW12	
York Sample ID			08080810-05		08080810-06	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	Not detected	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	5	Not detected	5
Isopropylbenzene			Not detected	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			Not detected	5	Not detected	5
n-Butylbenzene			Not detected	5	Not detected	5
n-Propylbenzene			Not detected	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			Not detected	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			Not detected	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5
Semi-Volatiles, STARS List	SW846-8270	ug/L	---	---	---	---
Acenaphthene			Not detected	5.6	Not detected	5.9
Acenaphthylene			Not detected	5.6	Not detected	5.9
Anthracene			Not detected	5.6	Not detected	5.9
Benzo[a]anthracene			Not detected	5.6	Not detected	5.9
Benzo[a]pyrene			Not detected	5.6	Not detected	5.9
Benzo[b]fluoranthene			Not detected	5.6	Not detected	5.9
Benzo[g,h,i]perylene			Not detected	5.6	Not detected	5.9
Benzo[k]fluoranthene			Not detected	5.6	Not detected	5.9
Chrysene			Not detected	5.6	Not detected	5.9
Dibenz[a,h]anthracene			Not detected	5.6	Not detected	5.9
Fluoranthene			Not detected	5.6	Not detected	5.9
Fluorene			Not detected	5.6	Not detected	5.9
Indeno[1,2,3-cd]pyrene			Not detected	5.6	Not detected	5.9
Naphthalene			Not detected	5.6	Not detected	5.9
Phenanthrene			Not detected	5.6	Not detected	5.9
Pyrene			Not detected	5.6	Not detected	5.9

Client Sample ID			MW13		MW14	
York Sample ID			08080810-07		08080810-08	
Matrix			WATER		WATER	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles, STARS List	SW846-8260	ug/L	---	---	---	---
1,2,4-Trimethylbenzene			Not detected	5	Not detected	5
1,3,5-Trimethylbenzene			Not detected	5	Not detected	5
Benzene			Not detected	1	Not detected	1
Ethylbenzene			Not detected	5	Not detected	5
Isopropylbenzene			Not detected	5	Not detected	5
Methyl-tert-butyl ether			Not detected	5	Not detected	5
Naphthalene			Not detected	5	Not detected	5
n-Butylbenzene			Not detected	5	Not detected	5
n-Propylbenzene			Not detected	5	Not detected	5
o-Xylene			Not detected	5	Not detected	5
p- & m- Xylenes			Not detected	5	Not detected	5
p-Isopropyltoluene			Not detected	5	Not detected	5
sec-Butylbenzene			Not detected	5	Not detected	5
tert-Butylbenzene			Not detected	5	Not detected	5
Toluene			Not detected	5	Not detected	5
Semi-Volatiles, STARS List	SW846-8270	ug/L	---	---	---	---
Acenaphthene			Not detected	5.9	Not detected	6.7
Acenaphthylene			Not detected	5.9	Not detected	6.7
Anthracene			Not detected	5.9	Not detected	6.7
Benzo[a]anthracene			Not detected	5.9	Not detected	6.7
Benzo[a]pyrene			Not detected	5.9	Not detected	6.7
Benzo[b]fluoranthene			Not detected	5.9	Not detected	6.7
Benzo[g,h,i]perylene			Not detected	5.9	Not detected	6.7
Benzo[k]fluoranthene			Not detected	5.9	Not detected	6.7
Chrysene			Not detected	5.9	Not detected	6.7
Dibenz[a,h]anthracene			Not detected	5.9	Not detected	6.7
Fluoranthene			Not detected	5.9	Not detected	6.7
Fluorene			Not detected	5.9	Not detected	6.7
Indeno[1,2,3-cd]pyrene			Not detected	5.9	Not detected	6.7
Naphthalene			Not detected	5.9	Not detected	6.7
Phenanthrene			Not detected	5.9	Not detected	6.7
Pyrene			Not detected	5.9	Not detected	6.7

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 08080810

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____ **Date:** 8/29/2008

for Robert Q. Bradley
Managing Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DRIVE STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

08080810

Company Name	Report To:	Invoice To:	Project ID/No.	
ASR	Steve Muller	ASR	49 Dupont	Samples Collected By (Signature)
				Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
1	mw1	8/21/08	X				8260 Stars / 8272 BN	3
2	mw2		X					3
3	mw3		X					3
4	mw 8		X					3
5	mw10		X					3
6	mw12		X					3
7	mw13		X					3
8	mw14		X					3

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Mikhail Lwab	8/21	H. Bernard Horton	8-22-08 6:08pm
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time	Sample Received by	Date/Time
		Sample Relinquished by	Date/Time	Sample Received in LAB by	8-22-08 / 2000 Date/Time

Comments/Special Instructions 4.1°C

Turn-Around Time
X Standard ____ RUSH(define)_____

ADVANCED SITE RESTORATION, LLC
ENVIRONMENTAL SERVICES

May 9, 2009

Mr. Raphael Katani
NYSDEC Region 2
Hunters Point Plaza
47-40 21st Street
Long Island City, New York 11101

Re: Quarterly Status Report – First Quarter 2009
49-55 Dupont Street
Brooklyn, New York
NYSDEC Spill Number 06-01852

Dear Mr. Katani:

Advanced Site Restoration, LLC (ASR) has prepared the enclosed Quarterly Status Report on behalf of 49 Dupont Realty Corp. The report details the subsurface assessment results from site work conducted between January 2009 and March 2009.

If you have any questions, please do not hesitate to contact us.

Sincerely,
Advanced Site Restoration, LLC

Chris Tomasello
Project Manager

Encl. Quarterly Status Report – First Quarter 2009

62 WILLIAM STREET ▪ 3RD FLOOR ▪ NEW YORK ▪ NEW YORK 10005
TEL: 212▪809▪1110 FAX: 212▪809▪1779
www.askasr.com

ADVANCED SITE RESTORATION, LLC

QUARTERLY STATUS REPORT
(JANUARY 2009 through MARCH 2009)

Prepared For: 49 Dupont Reality Corp.
Prepared By: Advanced Site Restoration, LLC
Report Date: March 26, 2009

SITE DESCRIPTION

Street Address:	49-55 Dupont Street
City:	Brooklyn
State:	New York
Regulatory Agency:	NYSDEC Region 2
Regulatory Contact:	Raphael Katani
NYSDEC Spill Number:	06-01852
ASR Contact:	Steven Muller
Current Property Use:	Former Manufacturing Facility

The location of the subject site is shown on the Site Location Map (Figure 1). The monitoring well locations and other site features are shown on the Well Location Map (Figure 2).

SITE WORK PERFORMED THIS REPORTING PERIOD
The monitoring well network was gauged on January 19, 2009, February 19, 2009, and March 26, 2009 and sampled on March 26, 2009.

PRODUCT RECOVERY PROGRAM
Free floating product was historically detected in the area surrounding MW-4 through MW-7, MW-9, MW-15, MW-16, and RW-2 through RW-10. The free floating product was removed, recorded, and properly disposed. This was achieved through the use of a peristaltic pump and/or P-10 sticks, an all natural absorbent. After preliminary product removal, several inches of floating product reappeared in MW-4 through MW-7, MW-9, MW-15, MW-16, and RW-2 through RW-10. ASR began a product recovery program consisting of groundwater monitoring and product bailing until the floating product is no longer detected. It is estimated that approximately six hundred forty one (641) gallons of product was recovered from MW-4 through MW-7, MW-9, MW-15, MW-16, and RW-2 through RW-10 in three (3) months of bailing activities, January 2009 through March 2009. Monitoring well gauging date reports are attached as Table-1. A Product Removal Log is attached as Table- 3.

GROUND WATER GAUGING AND SAMPLING METHODS

During this groundwater monitoring event, the monitoring wells were gauged for depth to groundwater and for the presence of light non-aqueous phase liquid (LNAPL). The depth to groundwater and presence of LNAPL, if any, were gauged using an oil/water interface probe capable of measuring to the nearest 0.01 foot. The groundwater level measurements were converted to groundwater elevations using top of monitoring well casing elevations. Top of casing elevations were referenced to an arbitrary, on-site datum. Ground water elevations were corrected for the presence of LNAPL, as appropriate, using a reference value for LNAPL specific gravity of 0.75.

Prior to sampling, the volume of water contained within each monitoring well was calculated using the well diameter and water column height. Whenever possible, a volume of groundwater equivalent to at least three well volumes was purged from each monitoring well using a disposable polyethylene bailer and/or a mechanical pump with dedicated polyethylene tubing. Dedicated polyethylene bailers were used to collect the groundwater samples. The samples were poured from the bailers into dedicated laboratory-supplied glassware. The glassware was then placed into a cooler and maintained at a temperature of less than 4-degrees Celsius during transportation to the laboratory.

The groundwater samples were forwarded under chain-of-custody procedures to York Analytical Laboratories, Inc. (York) of Stratford, Connecticut. York is a New York State Department of Health-ELAP certified laboratory (Certification Number 09030963). The groundwater samples were analyzed for volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) in accordance with United States Environmental Protection Agency (USEPA) Method 8260 STARS.

MONITORING WELL GAUGING RESULTS

During this groundwater monitoring event, groundwater monitoring wells were gauged as previously described. The gauging information and the calculated water level elevations are provided in Monitoring Well Gauging Data (Table 1). The groundwater elevation measurements are plotted on the Groundwater Gradient Map, (Figure 3).

The monitoring well gauging results are summarized as follows:

Gauging Date:	1/29/09, 2/19/09, 3/26/09
Number of Wells Gauged (ID):	25 (MW-1 through MW-10, MW-12 through MW-16, RW-1 through RW-10)
Number of Wells Not Gauged (ID[Reason]:	none
Gauging Frequency:	Monthly
Wells with LNAPL (amount):	9 (0.10' to 1.35)
Depth to Groundwater (ft):	8.03' to 15.27'
Interpreted Groundwater Flow Direction:	Northwest

MONITORING WELL SAMPLING ANALYTICAL RESULTS

During the March 26, 2009 groundwater monitoring event, groundwater samples were collected as previously described. BTEX and MTBE compounds in excess of applicable New York State Department of Environmental Conservation (NYSDEC) Ground Water Quality Standards (GWQS) were not detected in any of the wells sampled.

The monitoring well sample analytical results are summarized as follows:

Sampling Date:	March 26, 2009
Number of Wells Sampled (ID):	16 (MW-1 through MW-10, MW-12 through MW-16, RW-6)
Number of Wells not Sampled(ID,Reason):	none
Sampling Frequency:	Quarterly
Total BTEX Concentration Range (ug/l):	None
MTBE Concentration Range (ug/l):	None

The groundwater laboratory analytical results are provided in Groundwater Dissolved Constituent Sampling Data (Table 2). The laboratory analytical report is provided as Appendix A. Historical ground water analytical data are also provided in Groundwater Dissolved Constituent Sampling Data (Table 2).

CONCLUSIONS AND RECOMMENDATIONS

Concentration of BTEX in excess of applicable NYSDEC GWQS was not detected in any of the groundwater samples collected during this groundwater sampling event. ASR intends to continue monthly groundwater monitoring at the subject site. The next sampling event is scheduled for June, 2009. LNAPL was last detected on March 26, 2009 in MW-4 through MW-7, MW-9, MW-15, MW-16, RW-2 and RW-10.

A noticeable decrease in the plume size has been seen throughout this quarter. Wells that have historically contained product now only contain only sheens (MW-7, MW-9, MW-15, and MW-16). Product recovery seems to be having noticeable impact on both the size and thickness of the LNAPL plume.

LIMITATIONS

The recommendations contained in this report represents ASR's professional opinions based upon currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between ASR and its client outlines the scope of work and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of ASR's client and anyone else specifically listed on this report. ASR will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, ASR makes no express or implied warranty as to the contents of this report.

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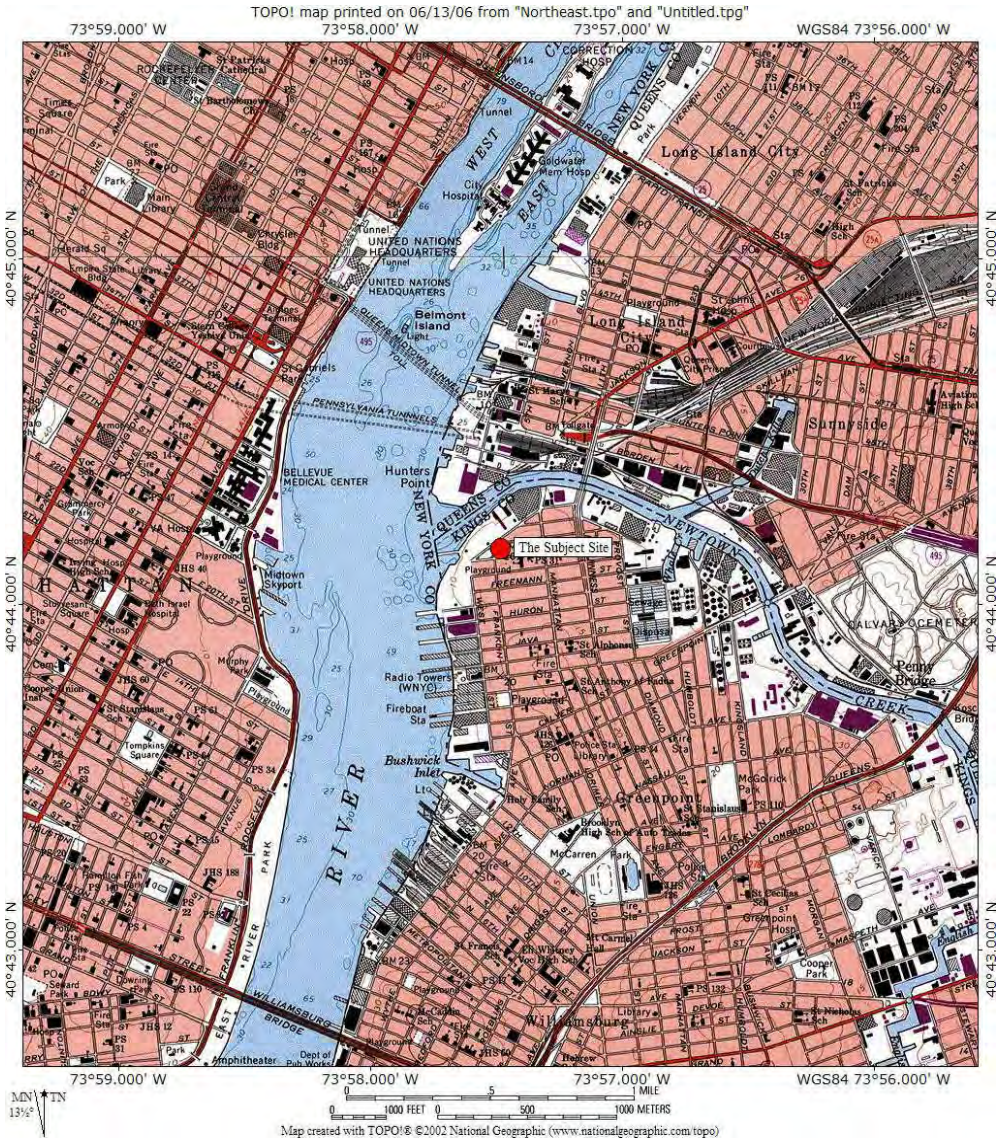

ADVANCED Site Restoration, LLC.
Environmental Services

62 William St., 3rd Floor, New York, NY 10005
Tel: 212-809-1110 Fax: 212-809-1779 info@askasr.com

Figure - 1
Site Location Map
49-55 Dupont Street
Brooklyn, New York 11222

MW-2
Location of Groundwater Monitoring Well

SB-22
Location of Geoprobe Soil Boring

RW-3
Location of Product Recovery Wells

North

Not to Scale

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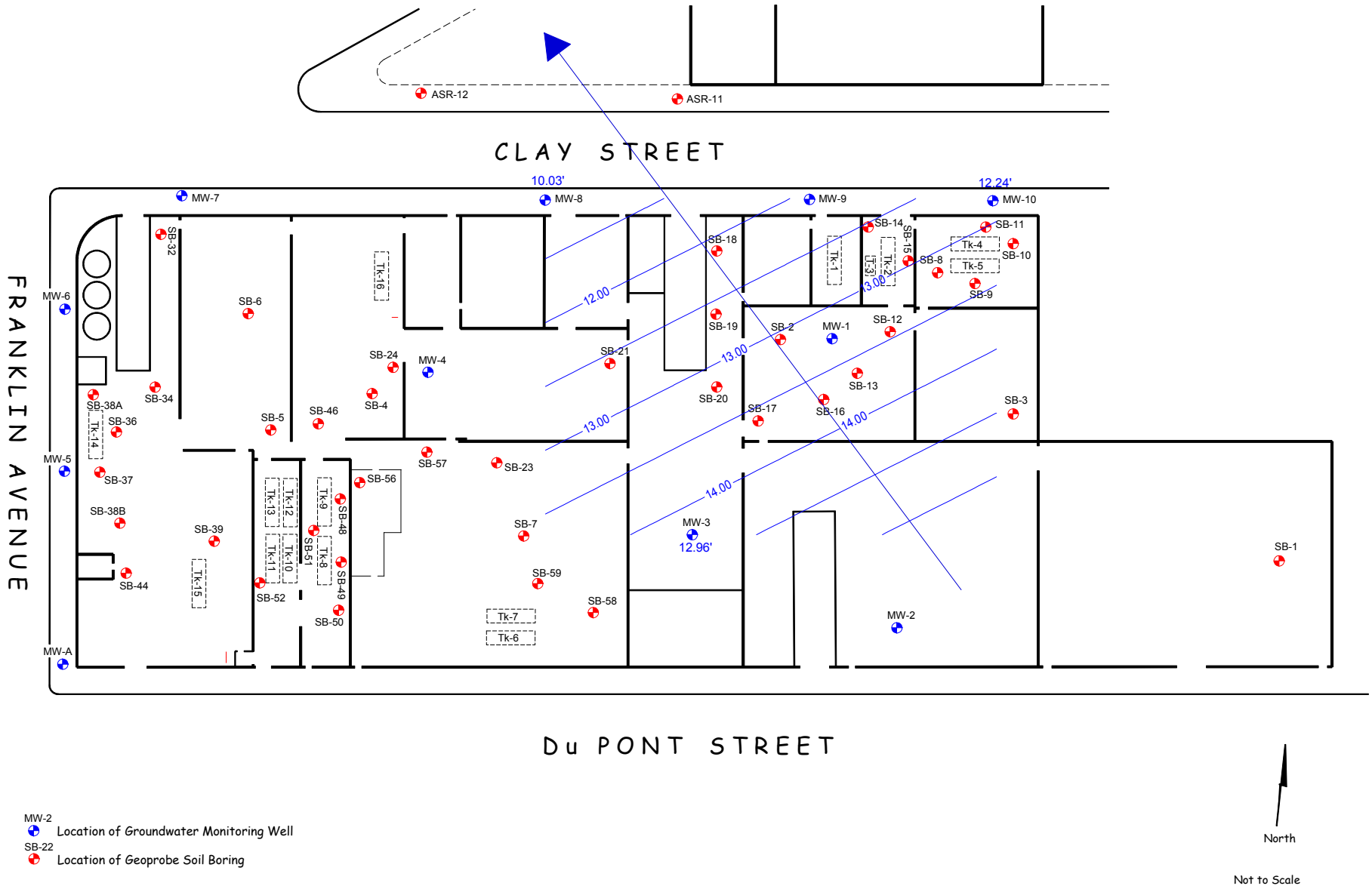
SWM

Figure - 2
Well Location Map

49 Dupont Realty Corp.
49 - 55 Dupont Street
Brooklyn, New York



MW-2
Location of Groundwater Monitoring Well
SB-22
Location of Geoprobe Soil Boring

North

Not to Scale

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Figure - 3
Groundwater Gradient Map
March 26, 2009

SWM

49 Dupont Realty Corp.
49 - 55 Dupont Street
Brooklyn, New York

MW-2 Location of Groundwater Monitoring Well

SB-22 Location of Geoprobe Soil Boring

RW-3 Location of Product Recovery Wells

ND Groundwater Analytical Results

Floating Product (3/26/09)

ND =Di-n-octylphthalate

ND =Bis(2-ethylhexyl)phthalate

ND = Non-Detect

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Figure - 4

Monitoring/Sampling Results Map

March 26, 2009

SWM

49 Dupont Realty Corp.

49 - 55 Dupont Street

Brooklyn, New York

Table-1
49 Dupont Street
Brooklyn, New York

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-1	5/10/2006	25.19	10.89	10.88	0.01	
	11/20/2006		10.83	10.79	0.04	
	6/18/2007		10.70	10.68	0.02	
	8/13/2007		10.30	10.25	0.05	
	9/24/2007		11.14	11.12	0.02	
	10/21/2007		11.32	11.34	0.02	
	11/23/2007		11.32	11.31	0.01	
	12/14/2007		11.48	11.47	0.01	
	1/11/2008		11.09	11.08	0.01	
	2/28/2008		11.19			
	3/24/2008		10.85			
	4/7/2008		10.95	Sheen		
	5/12/2008		10.87			14.32
	6/4/2008		10.92			14.90
	7/25/2008		11.30			13.89
	8/21/2008		11.71			13.48
	9/19/2008		11.64			13.55
	10/22/2008		11.68			13.51
	11/14/2008		11.48			13.71
	12/31/2008		10.92			14.27
	1/29/2009		11.22			13.97
	2/19/2009		11.03			14.16
	3/26/2009		11.56			13.63
MW-2	5/10/2006	25.34	11.78	----	----	13.56
	11/20/2006		NA			----
	4/25/2007		7.66			17.68
	5/10/2007		8.64			16.70
	6/18/2007		9.66			15.68
	8/13/2007		8.30			17.04
	9/24/2007		10.20			15.14
	10/21/2007		10.44			14.90
	11/23/2007		10.59			14.75
	12/14/2007		10.76			14.58
	1/11/2008		10.37			14.97
	2/28/2008		10.10			15.24
	3/24/2008		9.90			15.44
	4/7/2008		9.94			15.40
	5/12/2008		9.97			15.37
	6/4/2008		10.05			15.30
	7/25/2008		10.49			14.85
	8/21/2008		10.72			14.52
	9/19/2008		10.66			14.58
	10/22/2008		10.96			14.28
	11/14/2008		10.89			14.45
	12/31/2008		11.35			13.99
	1/29/2009		10.30			15.04
	2/19/2009		9.67			15.67
	3/26/2009		10.26			15.08
MW-3	5/10/2006	25.52	9.83	----	----	15.69
	8/10/2006		11.27	----	----	14.25
	11/20/2006		NA			
	4/25/2007		10.98			14.54
	5/10/2007		9.50			16.02
	6/18/2007		11.53			13.99
	8/13/2007		11.01			14.51
	9/24/2007		11.94			13.68
	10/21/2007		12.26			13.36
	11/23/2007		12.45			13.07
	12/14/2007		12.75			12.77
	1/11/2008		12.34			13.18
	2/28/2008		12.11			13.41
	3/24/2008		11.97			13.55
	4/7/2008		12.03			13.49
	5/12/2008		21.08			4.44
	6/4/2008		12.06			13.46
	7/25/2008		12.35			13.17
	8/21/2008		12.52			13.00
	9/19/2008		12.48			13.04
	10/22/2008		8.65			16.87
	11/14/2008		12.59			12.93
	12/31/2008		12.14			13.38
	1/29/2009		12.22			13.30
	2/19/2009		12.09			13.43
	3/26/2009		12.56			12.96

Table-1
49 Dupont Street
Brooklyn, New York

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-4	5/10/2006	25.62	13.90	12.28	1.62	
	11/20/2006		13.56	12.28	1.28	
	5/10/2007		11.92	11.80	0.12	
	6/18/2007		12.55	12.37	0.18	
	8/13/2007		12.42	12.07	0.35	
	9/24/2007		12.98	12.78	0.20	
	10/21/2007		13.02	13.14	0.12	
	11/23/2007		13.14	13.13	0.01	
	12/14/2007		13.31	13.29	0.02	
	1/11/2008		12.88	12.87	0.01	
	2/28/2008		13.25	13.15	0.10	
	3/24/2008		13.10	12.55	0.55	
	4/7/2008		12.79	12.69	0.10	
	5/12/2008		12.82	12.68	0.14	
	6/4/2008		12.90	12.70	0.20	
	7/25/2008		12.70			
	8/21/2008		12.75	Sheen	Sheen	
	9/19/2008		n/a			
	10/22/2008		n/a	Sheen	Sheen	
	11/14/2008		Sheen			
	12/31/2008		12.75	Sheen	Sheen	
	1/29/2009		13.02	Sheen	Sheen	
	2/19/2009		12.86	Sheen	Sheen	
	3/26/2009		12.55	Sheen	Sheen	
MW-5	8/10/2006	19.57	14.90	9.11	5.79	
	11/20/2006		10.30	9.17	1.13	
	5/10/2007		9.29	8.82	0.47	
	6/18/2007		12.25	9.27	2.98	
	8/13/2007		9.70	9.16	0.54	
	9/24/2007		11.79	9.70	2.09	
	10/21/2007		15.04	9.71	5.33	
	11/23/2007		15.51	9.81	5.70	
	12/14/2007		14.81	9.88	4.93	
	1/11/2008		9.64	9.61	0.03	
	2/28/2008		12.15	9.92	3.00	
	3/24/2008		14.35	11.74	2.61	
	4/7/2008		12.92	10.74	2.18	
	5/12/2008		14.10	9.38	4.72	
	6/4/2008		13.32	9.50	3.82	
	7/25/2008		14.10	9.38	4.72	
	8/21/2008		13.92	10.85	3.13	
	9/19/2008		13.89	11.02	2.87	
	10/22/2008		13.90	11.90	2.00	
	11/14/2008		12.79	11.79	1.00	
	12/31/2008		12.67	11.29	1.38	
	1/29/2009		12.81	11.09	1.72	
	2/19/2009		12.72	11.23	1.49	
	3/262009		12.51	11.16	1.35	
MW-6	8/10/2006	18.62	12.00	8.28	3.72	
	11/20/2006		8.85	8.23	0.62	
	5/10/2007		8.41	7.87	0.54	
	6/18/2007		9.34	9.07	0.27	
	8/13/2007		10.25	8.69	1.56	
	9/24/2007		9.82	9.45	0.37	
	10/21/2007		9.99	9.62	0.37	
	11/23/2007		9.76	9.06	0.70	
	12/14/2007		9.68	9.13	0.55	
	1/11/2008		8.91	8.85	0.06	
	2/28/2008		9.09	8.98	0.11	
	3/24/2008		8.76	8.02	0.74	
	4/7/2008		8.89	7.98	0.91	
	5/12/2008		9.32	8.65	0.67	
	6/4/2008		9.04	8.73	0.31	
	7/25/2008		9.04			
	8/21/2008		9.10	Sheen	Sheen	
	9/19/2008		10.05	10.04	0.01	
	10/22/2008		10.00	9.89	0.21	
	11/14/2008		10.05			
	12/31/2008		10.15	9.99	0.16	
	1/29/2009		9.99	9.59	0.40	
	2/19/2009		10.01	9.96	0.05	
	3/26/2009		10.08	10.01	0.07	

Table-1
49 Dupont Street
Brooklyn, New York

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-7	*8/10/2006*	*18.75*	*10.52*	*8.62*	*1.90*	
	11/20/2006		*8.80*	*8.52*	*0.28*	
	5/10/2007		*8.33*	*8.21*	*0.12*	
	6/18/2007		*9.12*	*8.66*	*0.46*	
	8/13/2007		*9.50*	*8.65*	*0.85*	
	9/24/2007		*9.71*	*9.10*	*0.61*	
	10/21/2007		*9.48*	*9.14*	*0.34*	
	11/23/2007		*9.79*	*9.13*	*0.66*	
	12/14/2007		*9.65*	*9.32*	*0.33*	
	1/11/2008		*9.10*	*9.08*	*0.02*	
	2/28/2008		*9.23*	*9.03*	*0.20*	
	3/24/2008		*8.96*	*8.84*	*0.12*	
	4/7/2008		*9.33*	*9.24*	*0.09*	
	5/12/2008		*9.15*	*8.79*	*0.36*	
	6/4/2008		*Did Not Monitor*			
	7/25/2008		*9.15*	*8.79*	*0.36*	
	8/21/2008		*9.20*	*8.80*	*0.40*	
	9/19/2008		*9.19*	*8.88*	*0.31*	
	10/22/2008		*n/s*			
	11/14/2008		*NS*			
	12/31/2008		*9.23*	*Sheen*	*Sheen*	
	1/29/2009		*9.18*	*Sheen*	*Sheen*	
	2/19/2009		*9.32*	*Sheen*	*Sheen*	
	3/26/2009		*9.48*	*Sheen*	*Sheen*	
MW-8	*8/10/2006*	*20.26*	*9.46*	----	----	*10.80*
	11/20/2006		*NA*			
	5/10/2007		*8.86*			*11.40*
	6/18/2007		*9.40*			*10.86*
	8/13/2007		*9.45*			*10.81*
	9/24/2007		*9.78*			*10.48*
	10/21/2007		*10.03*			*10.23*
	11/23/2007		*10.16*			*10.10*
	12/14/2007		*10.21*			*10.05*
	1/11/2008		*9.96*			*10.30*
	2/28/2008		*9.76*			*10.50*
	3/24/2008		*9.62*			*10.64*
	4/7/2008		*9.74*			*10.52*
	5/12/2008		*9.76*			*10.50*
	6/4/2008		*Did Not Monitor*			----
	7/25/2008		*10.07*			*10.19*
	8/21/2008		*10.20*			*10.06*
	9/19/2008		*10.19*			*10.07*
	10/22/2008		*10.30*			*9.96*
	11/14/2008		*10.24*			*10.02*
	12/31/2008		*9.71*			*10.55*
	1/29/2009		*Blocked*			----
	2/19/2009		*10.31*			*9.95*
	3/26/2009		*10.23*			*10.03*

Table-1
49 Dupont Street
Brooklyn, New York

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-9	8/10/2006	20.62	10.22	7.88	2.34	
	11/20/2006		LNAPL			
	6/18/2007		too thick			
	8/13/2007		too thick			
	9/24/2007		unknown	8.79		
	10/21/2007		too thick			
	11/23/2007		9.33	9.29	0.04	
	12/14/2007		too thick			
	1/11/2008		9.21	9.18	0.03	
	2/28/2008		9.32	9.02	0.30	
	3/24/2008		too thick			
	4/7/2008		too thick			
	5/12/2008		9.15	8.90	0.25	
	6/4/2008		Did Not Monitor			
	7/25/2008		9.85	8.90	0.95	
	8/21/2008		9.91	9.87	0.04	
	9/19/2008		9.89	9.88	0.01	
	10/22/2008		9.90	Sheen	Sheen	
	11/14/2008		9.90	Sheen	Sheen	
	12/31/2008		9.92	Sheen	Sheen	
	1/29/2009		10.01	Sheen	Sheen	
	2/19/2009		9.85	Sheen	Sheen	
	3/26/2009		8.98	Sheen	Sheen	
MW-10	8/1/2006	21.04	8.22	----	----	12.82
	5/10/2007		7.97			13.07
	6/18/2007		8.25			12.79
	9/24/2007		8.69			12.79
	10/21/2007		8.64			12.40
	11/23/2007		8.88			12.16
	12/14/2007		8.96			12.08
	1/11/2008		8.63			12.41
	2/28/2008		8.42			12.62
	3/24/2008		8.37			12.67
	4/7/2008		8.45			12.59
	5/12/2008		8.41			12.63
	6/4/2008		Did Not Monitor			----
	7/25/2008		8.79			12.25
	8/21/2008		9.19			11.85
	9/19/2008		8.66			12.38
	10/22/2008		8.93			12.11
	11/14/2008		8.75			12.29
	12/31/2008		8.24			12.80
	1/29/2009		ice			----
	2/19/2009		8.88			12.16
	3/26/2009		8.80			12.24
MW-11	9/19/2006	17.01	7.07	----	----	9.94
	11/20/2006					
	5/10/2007		DESTROYED			
MW-12	9/19/2006	16.99	7.10	----	----	9.89
	11/20/2006					----
	5/10/2007		6.89			10.10
	8/13/2007		6.57			10.42
	9/24/2007		7.74			9.25
	10/21/2007		7.61			9.38
	11/23/2007		7.64			9.35
	12/14/2007		7.21			9.78
	1/11/2008		7.37			9.62
	2/28/2008		7.47			9.52
	3/24/2008		7.38			9.61
	4/7/2008		7.40			9.59
	5/12/2008		7.13			9.86
	6/4/2008		7.36			9.63
	7/25/2008		7.82			9.17
	8/21/2008		7.94			9.05
	9/19/2008		7.57			9.42
	10/22/2008		7.90			9.09
	11/14/2008		7.57			9.42
	12/31/2008		7.24			9.75
	1/29/2009		ice			----
	2./19/2009		7.17			9.82
	3/26/2009		8.03			8.96

Table-1
49 Dupont Street
Brooklyn, New York

Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
MW-13	9/19/2006	17.20	7.16	----	----	10.04
	11/20/2006					----
	5/10/2007		6.87			10.33
	8/13/2007		6.51			10.69
	9/24/2007		7.89			9.31
	10/21/2007		7.72			9.48
	11/23/2007		7.77			9.43
	12/14/2007		7.33			9.87
	1/11/2008		7.52			9.68
	2/28/2008		7.40			9.80
	3/24/2008		7.27			9.93
	4/7/2008		7.35			9.85
	5/12/2008		7.09			10.11
	6/4/2008		7.50			9.70
	7/25/2008		8.01			9.19
	8/21/2008		8.00			9.20
	9/19/2008		7.67			9.53
	10/22/2008		7.99			9.30
	11/14/2008		7.69			9.51
	12/31/2008		7.08			10.12
	1/29/2009		ice			----
	2/19/2009		7.77			9.43
	3/26/2009		8.05			9.15
MW-14	9/19/2006	18.23	8.11	----	----	10.12
	5/10/2007		7.60			10.63
	8/13/2007		8.23			10.00
	9/24/2007		8.52			9.71
	10/21/2007		8.61			9.62
	11/23/2007		8.71			9.52
	12/14/2007		NA			----
	1/11/2008		8.53			9.70
	2/28/2008		8.32			9.91
	3/24/2008		8.15			10.08
	4/7/2008		8.30			9.93
	5/12/2008		8.20			10.03
	6/4/2008		8.35			9.88
	7/25/2008		8.65			9.58
	8/21/2008		9.20			9.03
	9/19/2008		8.72			9.51
	10/22/2008		8.85			9.38
	11/14/2008		8.71			9.52
	12/31/2008		8.23			10.00
	1/29/2009		8.90			9.33
	2/19/2009		8.54			9.69
	3/26/2009		8.82			9.41
MW-15	5/10/2007	NA	10.83	9.35	1.48	----
	5/23/2007		9.72	9.70	0.02	----
	6/18/2007		10.02	9.93	0.09	----
	8/13/2007		9.70	9.16	0.54	----
	9/24/2007		10.73	10.32	0.41	----
	10/21/2007		11.37	10.44	0.07	----
	11/23/2007		NA			----
	12/14/2007		11.15	10.63	0.52	----
	1/11/2008		10.39	10.37	0.02	----
	2/28/2008		10.36	10.18	0.18	----
	3/24/2008		10.19	10.05	0.14	----
	4/7/2008		10.94	10.17	0.77	----
	5/12/2008		10.45	10.13	0.32	----
	6/4/2008		Did Not Monitor			
	7/25/2008		10.45	10.13	0.32	----
	8/21/2008		10.47	10.41	0.06	----
	9/19/2008		10.46	10.42	0.04	----
	10/22/2008		10.55	10.51	0.04	----
	11/14/2008		10.54	10.18	0.36	----
	12/31/2008		10.60	Sheen	Sheen	----
	1/29/2009		10.88	Sheen	Sheen	----
	2/19/2009		9.97	Sheen	Sheen	----
	3/26/2009		10.12	Sheen	Sheen	----
MW-16	5/10/2007	NA	11.07	9.98	1.09	----
	5/23/2007		10.54	10.31	0.23	----
	6/18/2007		11.27	10.59	0.68	----
	8/13/2007		11.81	10.46	1.35	----
	9/24/2007		11.03	11.09	0.06	----
	10/21/2007		11.16	11.14	0.02	----
	11/23/2007		NA			----
	12/14/2007		11.35	11.32	0.03	----
	1/11/2008		11.06	11.05	0.01	----
	2/28/2008		11.00	10.85	0.15	----
	3/24/2008		10.91	10.71	0.20	----
	4/7/2008		10.96	10.17	0.79	----
	5/12/2008		10.85	10.32	0.53	----
	6/4/2008		Did Not Monitor			----
	7/25/2008		10.85	10.32	0.53	----
	8/21/2008		10.91	10.87	0.04	----
	9/19/2008		10.87	10.85	0.02	----
	10/22/2008		10.85	Sheen	Sheen	----
	11/14/2008		11.01	Sheen	Sheen	----
	12/31/2008		10.95	Sheen	Sheen	----
	1/29/2009		11.02	Sheen	Sheen	----
	2/19/2009		10.84	Sheen	Sheen	----
	3/26/2009		10.91	Sheen	Sheen	----

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Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
RW-1	11/20/2006	NA	8.38			----
	4/25/2007		7.57			----
	5/10/2007		8.04			----
	6/18/2007		8.57			----
	9/24/2007		9.10			----
	10/21/2007		9.17			----
	11/23/2007		9.31			----
	12/14/2007		9.22			----
	1/11/2008		13.06			----
	2/28/2008		8.83			----
	3/24/2008		8.73			----
	4/7/2008		8.84			----
	5/12/2008		8.74			----
	6/4/2008		8.85			----
	7/25/2008		9.16			----
	8/21/2008		9.23			----
	9/19/2008		n/a			----
	10/22/2008		9.33			----
	11/14/2008		Did not monitor			----
	12/31/2008		8.70			----
	1/29/2009		8.55			----
	2/19/2009		8.64			----
	3/26/2009		9.35			----
RW-2	4/25/2007	NA	12.46	12.45	0.01	----
	5/10/2007		12.91	12.71	0.20	----
	10/21/2007		14.09	13.85	0.24	----
	11/23/2007		15.81	14.51	1.30	----
	12/14/2007		15.22	13.85	1.37	----
	1/11/2008		13.64	13.31	0.33	----
	2/28/2008		13.44	13.26	0.18	----
	3/24/2008		13.52	13.16	0.36	----
	4/7/2008		13.25	13.01	0.24	----
	5/12/2008		13.60	13.36	0.24	----
	6/4/2008		Did Not Monitor			----
	7/25/2008		13.60	13.36	0.24	----
	8/21/2008		13.65	13.28	0.37	----
	9/19/2008		13.59	13.21	0.38	----
	10/22/2008		NS			----
	11/14/2008		13.68	12.00	1.68	----
	12/31/2008		13.47	13.00	0.47	----
	1/29/2009		13.06	12.50	0.44	----
	2/19/2009		12.89	12.55	0.34	----
	3/26/2009		13.02	12.85	0.27	----
RW-3	4/25/2007	NA	13.84	13.60	0.24	----
	5/10/2007		14.17	14.00	0.17	----
	6/18/2007		15.40	14.53	0.87	----
	9/24/2007		15.63	14.96	0.67	----
	10/21/2007		15.73	15.12	0.51	----
	11/23/2007		16.51	15.15	1.36	----
	12/14/2007		15.55	13.33	2.22	----
	1/11/2008		14.94	14.71	0.23	----
	2/28/2008		14.99	14.39	0.60	----
	3/24/2008		15.30	14.70	0.60	----
	4/7/2008		14.96	14.40	0.56	----
	5/12/2008		15.23	14.75	0.48	----
	6/4/2008		Did Not Monitor			----
	7/25/2008		15.23	14.75	0.48	----
	8/21/2008		15.31	15.01	0.30	----
	9/19/2008		15.28	15.11	0.17	----
	10/22/2008		15.18	15.00	0.18	----
	11/14/2008		15.33	14.43	0.90	----
	12/31/2008		15.40	13.99	1.41	----
	1/29/2009		15.15	14.87	0.28	----
	2/19/2009		14.96	14.71	0.25	----
	3/26/2009		15.05	14.82	0.23	----
RW-4	11/20/2006	NA	16.47	14.49	1.98	----
	4/25/2007		14.15	13.75	0.40	----
	5/10/2007		14.44	14.10	0.34	----
	6/18/2007		14.85	14.62	0.23	----
	9/24/2007		16.87	15.29	1.58	----
	10/21/207		15.74	15.45	0.29	----
	11/23/2007		15.88	15.42	0.46	----
	12/14/2007		15.84	15.48	0.36	----
	1/11/2008		15.19	15.04	0.15	----
	2/28/2008		15.06	14.84	0.22	----
	3/24/2008		15.14	14.85	0.29	----
	4/7/2008		15.10	14.92	0.18	----
	5/12/2008		15.22	14.83	0.39	----
	6/4/2008		Did Not Monitor			----
	7/25/2008		15.22	14.38	0.84	----
	8/21/2008		15.23	15.20	0.03	----
	9/19/2008		15.21			----
	10/22/2008		15.19	15.14	0.05	----
	11/14/2008		15.30	15.00	0.30	----
	12/31/2008		14.99	14.50	0.49	----
	1/29/2009		15.43	15.06	0.37	----
	2/19/2009		15.05	14.92	0.13	----
	3/26/2009		15.27	14.89	0.32	----

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Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
RW-5	11/20/2006	NA	13.64	13.53	0.11	----
	4/25/2007		12.75	12.60	0.15	----
	5/10/2007		13.10	13.02	0.08	----
	6/18/2007		13.60	13.55	0.05	----
	9/24/2007		14.24	13.94	0.30	----
	10/21/2007		14.23	14.11	0.12	----
	11/23/2007		14.23	14.13	0.10	----
	12/14/2007		14.75	14.26	0.49	----
	1/11/2008		13.94	13.81	0.13	----
	2/28/2008		14.01	14.00	0.01	----
	3/24/2008		14.35	14.12	0.23	----
	4/7/2008		14.21	14.20	0.01	----
	5/12/2008		13.58	13.56	0.02	----
	6/4/2008		13.32	9.50	3.82	----
	7/25/2008		13.32	9.50	3.82	----
	8/21/2008		13.34	11.25	2.09	----
	9/19/2008		13.31	11.15	2.16	----
	10/22/2008		13.21	13.02	0.19	----
	11/14/2008		13.35	Sheen	Sheen	----
	12/31/2008		13.28	Sheen	Sheen	----
	1/29/2009		14.87	Sheen	Sheen	----
	2.19.2009		13.53	Sheen	Sheen	----
	3/26/2009		13.66	Sheen	Sheen	----
RW-6	4/25/2007	NA	10.69			----
	5/10/2007		11.08			----
	6/18/2007		11.58			----
	9/24/2007		12.77	11.94	0.83	----
	10/21/2007		12.92	12.11	0.81	----
	11/23/2007		12.85	12.14	0.71	----
	12/14/2007		12.78	12.21	0.57	----
	1/11/2008		11.96	11.71	0.25	----
	2/28/2008		12.14	11.55	0.59	----
	3/24/2008		12.02	11.98	0.04	----
	4/7/2008		12.11	12.01	0.10	----
	5/12/2008		11.77	11.74	0.03	----
	6/4/2008		11.86	SHEEN	Sheen	----
	7/25/2008		12.17	SHEEN	Sheen	----
	8/21/2008		12.01	Sheen	Sheen	----
	9/19/2008		12.12			----
	10/22/2008		12.01	Sheen	Sheen	----
	11/14/2008		12.19	12.02	0.17	----
	12/31/2008		12.23	Sheen	Sheen	----
	1/29/2009		12.45	SHEEN	Sheen	----
	2/19/2009		12,87	SHEEN	Sheen	----
	3/26/2009		12.62	SHEEN	Sheen	----
RW-7	11/20/2006	NA	LNAPL			----
	9/24/2007		unknown	9.05		----
	10/21/2007		9.51	too thick		----
	11/23/2007		9.83	9.77	0.06	----
	12/14/2007		9.80	too thick		----
	1/11/2008		9.26	9.22	0.04	----
	2/28/2008		9.35	9.27	0.08	----
	3/24/2008		too thick			----
	4/7/2008		9.22	9.06	0.16	----
	5/12/2008		too thick			----
	6/4/2008		too thick			----
	7/25/2008		9.22	9.06	0.16	----
	8/21/2008		9.28	9.18	0.10	----
	9/19/2008		9.26	9.19	0.07	----
	10/22/2008		9.20	Sheen	Sheen	----
	11/14/2008		9.34	9.27	0.07	----
	12/31/2008		9.50	Sheen	Sheen	----
	1/29/2009		9.46	Sheen	Sheen	----
	2/19/2009		9.72	9.67	0.05	----
	3/26/2009		9.65	9.55	0.10	----

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Well Number	Date	Well Elevation (ft)	Depth to Groundwater (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (ft)
RW-8	4/25/2007	NA	12.60	12.35	0.25	----
	5/10/2007		13.11	12.78	0.33	----
	6/18/2007		14.36	13.25	1.11	----
	8/13/2007					----
	9/24/2007		15.95	13.65	2.30	----
	10/21/207		NS			----
	11/23/2007		14.45	13.98	0.47	----
	12/14/2007		14.78	13.95	0.83	----
	1/11/2008		13.69	13.44	0.25	----
	2/28/2008		15.22	13.87	1.35	----
	3/24/2008		14.97	13.86	1.11	----
	4/7/2008		15.01	13.56	1.45	----
	5/12/2008		14.28	13.45	0.83	----
	6/4/2008		Did Not Monitor			----
	7/25/2008		14.28	13.45	0.83	----
	8/21/2008		14.30	13.85	0.45	----
	9/19/2008		14.30	13.99	0.31	----
	10/22/2008		14.28	13.18	1.10	----
	11/14/2008		14.33	12.89	1.44	----
	12/31/2008		14.23	13.98	0.25	----
	1/29/2009		15.12	13.77	1.45	----
	2/19/2009		14.76	13.09	1.67	----
	3/26/2009		14.43	13.21	1.22	----
RW-9	4/25/2007	NA	12.10	11.95	0.15	----
	5/10/2007		12.59	12.36	0.23	----
	6/18/2007		13.60	12.83	0.77	----
	8/13/2007					----
	9/24/2007		14.80	13.30	1.50	----
	10/21/2007		NS			----
	11/23/2007		13.97	13.23	0.74	----
	12/14/2007		14.15	13.59	0.56	----
	1/11/2008		13.31	13.19	0.12	----
	2/28/2008		13.26	12.78	0.48	----
	3/24/2008		13.31	12.58	0.73	----
	4/7/2008		13.41	12.42	0.99	----
	5/12/2008		13.44	13.03	0.41	----
	6/4/2008		Did Not Monitor			----
	7/25/2008		13.44	13.03	0.41	----
	8/21/2008		13.50	13.25	0.25	----
	9/19/2008		13.48	13.28	0.20	----
	10/22/2008		13.37	13.02	0.35	----
	11/14/2008		13.55	12.91	0.64	----
	12/31/2008		13.65	13.27	0.38	----
	1/29/2009		14.02	13.89	0.13	----
	2/19/2009		13.41	13.01	0.40	----
	3/26/2009		13.04	12.82	0.22	----
RW-10	4/25/2007	NA	11.76	11.64	0.12	----
	5/10/2007		12.13	12.05	0.08	----
	8/13/2007		pump			----
	9/24/2007		pump			----
	10/21/2007		pump			----
	11/23/2007		13.89	13.18	0.71	----
	12/14/2007		13.72	13.31	0.41	----
	1/11/2008		13.28	13.14	0.14	----
	2/28/2008		13.43	13.39	0.04	----
	3/24/2008		13.26	13.19	0.07	----
	4/7/2008		13.33	13.21	0.12	----
	5/12/2008		13.40	13.33	0.07	----
	6/4/2008		Did Not Monitor			----
	7/25/2008		13.40	13.33	0.07	----
	8/21/2008		13.46	12.85	0.61	----
	9/19/2008		13.43	12.78	0.65	----
	10/22/2008		13.50	12.95	0.65	----
	11/14/2008		13.54	12.99	0.55	----
	12/31/2008		13.43	13.10	0.33	----
	1/29/2009		13.87	13.11	0.76	----
	2/19/2009		13.67	13.23	0.44	----
	3/26/2009		13.60	13.05	0.50	----

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Well Number	Sampling Date	Benzene	Toluene	Ethylbenzene	Total Xylene	MtBE	Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate
MW-1	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	7/18/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	10/24/07	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	1/11/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	4/7/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	8/21/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	11/26/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	3/26/2009	<MDL	<MDL	<MDL	<MDL	<MDL	7	<MDL
MW-2	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	60	<MDL
	7/18/2007	<MDL	<MDL	<MDL	<MDL	<MDL	77	<MDL
	10/24/2007	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	1/11/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	4/7/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	8/21/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	11/26/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	3/26/2009	<MDL	<MDL	<MDL	<MDL	<MDL	16	<MDL
MW-3	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	31	<MDL
	7/18/2007	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	10/24/2007	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	1/11/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	4/7/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	8/21/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	11/26/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	3/26/2009	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
MW-4	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	120,000 P	160,000 P
	7/18/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	10/24/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	1/11/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	4/7/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	3/26/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
MW-5	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	780,000 P	90,000 P
	7/18/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	10/24/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	1/11/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	4/7/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	3/26/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
MW-6	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	1,300,000 P	<MDL
	7/18/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	10/24/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	1/11/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	4/7/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	3/26/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
MW-7	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	370,000 P	<MDL
	7/18/2007	NT	NT	NT	NT	NT	4,600 P	<MDL
	10/24/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	1/11/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	4/7/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	3/26/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL

<MDL = Parameter below method detection limit
NA = Well not Accessible
NT = Not Tested
P = These wells developed free product shortly after sampling and are no longer sampled for dissolved constituents

49 Dupont Street
Brooklyn, New York

Well Number	Sampling Date	Benzene	Toluene	Ethylbenzene	Total Xylene	MtBE	Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate
MW-8	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	89	<MDL
	7/18/2007	NT	NT	NT	NT	NT	230	<MDL
	10/24/2007	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	1/11/2008	<MDL	<MDL	<MDL	<MDL	<MDL	22	<MDL
	4/7/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	8/21/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	11/26/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	3/26/2009	<MDL	<MDL	<MDL	<MDL	<MDL	7	<MDL
MW-9	7/24/2006	<MDL	<MDL	11	11	<MDL	<MDL	<MDL
	7/18/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	10/24/2007	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	1/11/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	4/7/2008	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	3/26/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
MW-10	7/24/2006	<MDL	<MDL	<MDL	<MDL	<MDL	6	<MDL
	7/18/2007	NT	NT	NT	NT	NT	57	<MDL
	10/24/07	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	1/11/2008	<MDL	<MDL	<MDL	<MDL	<MDL	99	<MDL
	4/7/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	8/21/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	11/26/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	3/26/2009	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
MW-11	9/18/2006	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	DESTROYED	DESTROYED	DESTROYED	DESTROYED	DESTROYED	DESTROYED	DESTROYED	DESTROYED
MW-12	9/18/2006	<MDL	<MDL	<MDL	<MDL	<MDL	17	<MDL
	7/18/2007	NT	NT	NT	NT	NT	ND	<MDL
	10/24/2007	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	1/11/2008	<MDL	<MDL	<MDL	<MDL	<MDL	14	<MDL
	4/7/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	8/21/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	11/26/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	3/26/2009	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
MW-13	9/18/2006	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	7/18/2007	NT	NT	NT	NT	NT	<MDL	<MDL
	10/24/2007	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	1/11/2008	<MDL	<MDL	<MDL	<MDL	<MDL	170	<MDL
	4/7/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	8/21/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	11/26/2008	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
	3/26/2009	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL

<MDL = Parameter below method detection limit
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49 Dupont Street
Brooklyn, New York

Well Number	Sampling Date	Benzene	Toluene	Ethylbenzene	Total Xylene	MtBE	Bis(2-ethylhexyl)phthalate	Di-n-octylphthalate
MW-14	*9/18/2006*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	7/18/2007	*NT*	*NT*	*NT*	*NT*	*NT*	*<MDL*	*<MDL*
	10/24/2007	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	1/11/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*86*	*<MDL*
	4/7/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	8/21/2008							
	11/26/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	3/26/2009	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
MW-15	*12/7/2006*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*6,400*	*<MDL*
	7/18/2007	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
	10/24/2007	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
	3/26/2009	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
MW-16	*12/7/2006*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*990*
	7/18/2007	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
	10/24/2007	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
	3/26/2009	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*
RW-1	*7/18/2007*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	4/7/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	11/26/2008	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
	3/26/2009	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*
RW-6	*7/18/2007*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*<MDL*	*40*	*<MDL*
	3/26/2009	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*	*LNAPL*

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Table-3

49 Dupont Street
Brooklyn, New York

Well Number	RW-2	RW-3	RW-4	RW-5	RW-7	RW-8	RW-9	RW-10	RW-11	RW-12	MW-4	MW-5	MW-6	MW-7	MW-9	MW-15	MW-16	TOTAL
Nov-06	100	60	0	0	0	0	0	0			27	1	0	0	0	0	0	188
Dec-06	92	67	0	0	0	5	6	168			1	0	0	0	0	0	0	339
Jan-07	80	93	0	0	0	25	13	144			1	5	5	0	0	0	0	366
Feb-07	98	87	0	0	0	16	20	158			0	0	0	0	0	0	0	379
Mar-07	79	95	0	0	0	14	16	167			0	0	0	0	0	0	0	371
Apr-07	76	92	27	0	0	42	15	165			6	27	26	0	0	0	0	476
May-07	72	96	32	0	0	46	17	175			7	28	26	0	0	4	0	503
Jun-07	75	90	2	0	0	39	21	166			1	25	26	0	0	1	0	446
Jul-07	67	82	3	0	0	38	23	154			1	28	29	0	0	1	0	426
Aug-07	47	89	0	0	0	38	22	166			0	16	17	0	0	8	8	411
Sep-07	15	43	0	0	0	36	19	146			0	22	9	0	0	4	4	298
Oct-07	27	87	0	9	2	27	14	120			0	20	14	1	0	3	0	324
Nov-07	23	52	0	10	4	22	26	110			0	22	8	1	2	1	1	282
Dec-07	20	35	0	8	2	25	15	108			0	18	2	0	1	1	0	235
Jan-08	37	12	0	16	13	24	40	148			0	14	21	24	0	6	1	356
Feb-08	28	11	0	14	15	21	16	99			0	12	23	12	0	0	0	251
Mar-08	24	12	0	9	8	22	15	142			0	18	22	16	0	0	0	288
Apr-08	29	12	0	8	9	25	17	151			0	28	16	13	0	0	0	308
May-08	34	11	4	0	1	28	9	106			0	18	28	0	0	0	0	239
Jun-08	25	10	5	1	2	37	10	120			0	20	25	0	10	0	0	265
Jul-08	35	12	2	2	3	32	11	125			0	21	30	0	0	0	0	273
Aug-08	28	13	2	2	2	35	17	110			0	21	28	0	6	2	1	267
Sep-08	32	11	3	5	0	23	20	140			0	20	22	22	5	8	1	312
Oct-08	22	16	2	4	1	26	19	120			0	19	30	6	4	4	1	274
Nov-08	22	10	1	4	1	28	12	140			0	20	18	12	4	2	1	275
Dec-08	30	2.5	2.5	3	0	18	14	89			0	20	15	6	3	1	0	204
Jan-09	23	2	2	4	1	21	12	102			1	15	16	3	3	1	1	207
Feb-09	21	5	3	2	1	19	18	105			0	14	18	2	2	1	1	212
Mar-09	22	6	2	2	1	20	16	110			0	19	18	2	2	1	1	222
Apr-09																		
May-09																		
Total =	1283	1213.5	92.5	103	66	752	473	3754			45	491	492	120	42	49	21	8997

INTERIM INVESTIGATION REPORT

For The Property Located At

44-55 Dupont Street
Borough of Brooklyn, New York

April 2010

ESI File: SB09110.50

Ecosystems Strategies, Inc.
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Ecosystems Strategies, Inc.

INTERIM INVESTIGATION REPORT

For The Property Located At

44-55 Dupont Street
Borough of Brooklyn, New York

ESI File: SB09110.50

April 2010

Prepared By:

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie, New York 12603

Prepared For:

49 Dupont Realty Corporation
P.O. Box 786
Deer Park, NY 11729

The undersigned has reviewed this Interim Investigation Report and certifies to 49 Dupont Realty Corporation that the information provided in this document is accurate as of the date of issuance by this office.

Any and all questions or comments, including requests for additional information, should be submitted to the undersigned.

Paul H. Ciminello
President

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1.0 INTRODUCTION

1.1 Purpose

This Interim Investigation Report (Report) summarizes all interim investigative services performed by Ecosystems Strategies, Inc. [ESI] personnel at, 49-55 Dupont Street (hereafter referred to as the subject property), Borough of Brooklyn, New York (see Section 1.2, below).

The purpose of this investigation was 1) to provide current (2010) groundwater quality data, to document the presence or absence of product in on-site and off-site wells, and to measure the thickness of all product present; 2) to identify the presence or absence of meaningful concentrations of phthalates in product known to be present in the northeastern corner of the property and currently presumed to be free-product petroleum (possibly Fuel Oil #6); 3) to calculate the current elevation of groundwater throughout all portions of the property, to confirm the direction of flow, and to determine if any of the monitoring wells are tidally influenced; and 4) to provide this information to the NYSDEC so that the NYSDEC can determine if one or more lots of the property present a "significant threat", as defined by 6 NYCRR Part 375, such that inclusion in the Inactive Hazardous Waste Disposal Site Registry would be warranted, and, if so, what lots are to be included within the boundaries of said site.

1.2 Subject Property Location and Description

The subject property is a 2.81-acre, rectangular-shaped parcel located between Clay and Dupont Streets at the intersection with Commercial Street and Franklin Avenue. The property consists of New York City Block 2487, Tax Lots 1, 10, 12, 17, 18, 20, 21, 57, 72, and 78. Contamination of soils and groundwater by phthalates, compounds which were known to be stored on Lots 1, 10, and 78 and were utilized on-site to produce various plastic and vinyl products (see Section 1.4, below), have been detected on the western portion of the property (specifically on Lots 1 and 10; see Section 1.5, below). Petroleum contamination has been identified in the northeastern portion of the property (specifically on Lot 20).

The property is bordered by commercial/industrial facilities to the north, multi-family residential structures to the east and south, and a park to the west. The property is currently vacant.
A Site Location Map is provided as Figure 1 and a Tax Lot Map is provided as Figure 2 in Appendix A.

1.3 Limitations

This written analysis summarizes investigative activities conducted on a specified portion of the property located at 49-55 Dupont Street, Borough of Brooklyn, New York and is not relevant to other portions of this property or any other property. This Report presents subject property conditions as of the respective dates of investigative activities, and cannot be held accountable for activities or events resulting in contamination after the dates of fieldwork.

Services summarized in this Report were performed in accordance with generally accepted practices and established NYSDEC protocols. Unless specifically noted, the findings and conclusions contained herein must be considered not as scientific certainties, but as probabilities based on professional judgement.

1.4 Property History and Site History

Information regarding the property's history was obtained during the completion of a Phase I Environmental Site Assessment for the property (see below). The property had several commercial/industrial uses prior to 1950 including: an ironworks, stables, a gas and light fixture factory, a sheet metal works, a soap manufacturer, a water proofing manufacturer, and a scrap

metal facility. After 1950, the property was primarily used for the production, storage, and shipping of plastic and vinyl products.

The property is currently comprised of ten (10) separate tax lots, each with a separate structure located on it. See Figure 2. The referenced figure clearly shows different buildings, which over time, have become interconnected to improve industrial efficiency. However, each structure was built at a different time and continues to have separate utility connections as well as separate foundation walls (including footings). Within this larger complex of buildings, (now interior) walls have painted windows and bricked up doorways that had, at one time, led to the outside.

The documents ESI has reviewed indicate that chemical storage and handling was restricted to the westernmost buildings on the property (tax Lots #1, #10 and #78) with the remaining buildings used for storage of finished products and facility maintenance. The facility's boilers are located in the northeastern portion of the property, on tax Lot #20; this lot is the location of the known petroleum release (NYSDEC Spill # 0601852).

1.5 Previous Environmental Activities

A Preliminary Phase I Site Assessment and a Phase I Environmental Site Assessment were completed for the property by RTP Environmental Associates Inc. and FPM Group, respectively. These reports identified the presence of underground storage tanks (USTs), asbestos, an oil and water separator, sub-grade pipe trenches, a loading dock drain, drum storage area, printing press pits, silos, a freight elevator, oil stained walls, and possible contamination due to previous on-site activities, as environmental concerns for the property.

NYSDEC spill number 0601852 was assigned to the property on May 19, 2006. The record does not specify the reason for the opening of the spill or the reporting party.

All on-site USTs were closed and on-site trenches were addressed as documented in Advanced Site Restoration LLC (ASR) Underground Tank Closure Report, dated July 2006. Prior to closure, all USTs were opened and inspected; any remaining product was removed for off-site disposal; and the tanks were cleaned and filled with foam. According to ASR, no visual signs of leaking or damaged tanks were observed during this process. In addition, any remaining materials were removed from the bottom of on-site trenches and containerized for off-site disposal; any remaining staining was removed using a surfactant.

At the same time, ASR advanced 41 soil borings throughout the property and collected soil samples (see Figure 3, Appendix A); most samples were collected from the groundwater interface. Elevated concentrations of phthalates, specifically bis(2-ethylhexyl) phthalate and di-n-octyl phthalate, were detected at seven of the borings located on the western portion of the property (primarily in Lots 1 and 10, although slightly elevated concentrations of phthalates were detected in Lot 72 at SB-57). In addition, elevated concentrations of volatile organic compounds (VOCs) were detected at SB-14, located near the former fuel oil USTs located on Lot 20 (northeast corner of property).

Groundwater monitoring wells and product recovery wells were installed by ASR as documented in a Phase II Site Assessment report, dated March 2007. A total of sixteen groundwater monitoring wells were installed; four inside of the building, eight on the sidewalk surrounding the building, and four off-site (across Commercial Street and Franklin Avenue). The presence of free product detected in several of the on-site wells initiated the installation of ten product recovery wells (RW-1 through RW-12); nine on the western portion of the property (on Lots 1 and 10) and one near the former fuel oil UST (on Lot 20). Removal of the free product from the recovery wells was instituted in November 2006.

Product removal activities have been documented in a Monthly Monitoring Report, dated December 27, 2007 and several Quarterly Sampling Reports prepared by ASR. Free product

continues to be present in on-site wells and product recovery activities are on-going at the property.

An inspection of the property was conducted on December 23, 2009 by personnel from ESI, the NYSDEC, and 49 Dupont Realty Corporation. The inspection included a walkthrough of the on-site buildings focusing on the former on-site processing activities and the location of former USTs. It was noted at that time that twelve recovery wells existed on-site; it is assumed that RW-11 and RW-12 were installed subsequent to the Phase II Site Assessment Report. In addition, two monitoring wells (MW-4 and MW-6) were tested for the presence of free product using an interface probe. Free product was detected at both of these wells with 3 inches of product detected at MW-4 and 3.89 feet of product detected at MW-6.

Additional investigative activities to further characterize on-site conditions, as described in Section 1.1, above, are documented in Section 2.0, below.

2.0 SUMMARY OF FIELDWORK

2.1 Overview of Services

Fieldwork documented in this Report was performed in accordance with the NYSDEC approved Interim Investigation Work Plan (Work Plan), dated December 2009, and the subsequent addendum to the Work Plan, dated January 20, 2010 which also formally approved the Work Plan.

This Report documents the following fieldwork activities:

- Completion of a tidal influence study (Section 2.2.1, below);
- Measurement of free product levels in all monitoring and recovery wells, if present (Section 2.2.2, below);
- Determination of the direction of groundwater flow (Section 2.2.3, below);
- Collection and Analysis of water quality samples from monitoring wells without measurable free product (Section 2.2.4, below); and,
- Collection and analysis of a free product sample from recovery well RW-7, as described in the Work Plan and addendum. In addition, a product sample was collected from MW-4 and RW-12 in order to identify the components of each product, if possible (Section 2.2.5, below).

Section 2.2 documents fieldwork activities (including the tidal influence investigation, measurement of free product, and collection of soil and groundwater samples) and Section 2.3 presents the findings of laboratory analysis of collected samples. Section 3.0 provides conclusions and recommendations for further actions based on these investigative activities.

2.2 Fieldwork Activities

2.2.1 Tidal Influence Assessment

In order to complete the tidal assessment, ESI installed level loggers in three on-site monitoring wells (MW-1, MW-2, and MW-3) and three off-site monitoring wells (MW-12, MW-13, and MW-14) on Friday February 12, 2010. These wells were chosen based on lack of free product detected during past monitoring conducted by ASR; however, free product was detected in MW-1 during subsequent free product measurement (see Section 2.2.2, below). The level loggers were recovered on Monday February 15, 2010, providing data for approximately 72 hours.

Although the water rises and falls in all of the wells over the 72 hour testing period, a repeating pattern of the water rising and falling over approximately 12 hours cycles is evident in MW-12 and MW-13 indicating tidal influence (see the water level graphs for each well located in Appendix B). MW-12 and MW-13 are located to the northwest of the subject property, closest to the confluence of Newtown Creek and the East River.

Alternatively, the next closest well (MW-14); located to south of MW-12 and MW-13, does not have a repeating pattern of rising and falling water levels indicating that this well is not tidally influenced. In addition, the water level measurements from MW-1, MW-2, and MW-3, located on-site to the east of MW-14, do not indicate tidal influence. Based on this data, it is likely that on-site wells would be minimally influenced by the tide, if at all.

2.2.2 Measurement of Free Product and Depth to Groundwater

All existing groundwater and recovery wells were investigated for the presence of free product. The protective cap on the well was opened (as applicable) and the presence or absence and depth (as applicable) of free product were measured (relative to the top of the PVC casing) with a decontaminated interface probe. The depth to water was also recorded (as determined by the tone of the interface probe).

Depth to free product and groundwater measurements for the groundwater monitoring wells were conducted on February 15 and February 22, 2010. The measurements for each well are documented in Table A, below.

Table A: Free Product and Depth to Groundwater Measurements

Well ID	Depth to Product (feet)	Depth to Water (feet)	Product Depth (feet)	Product Depth (inches)	Field Observations
MW-1	11.35	11.45	0.1	1.2	Dark black product, petroleum odor
MW-2	NA	10.23	None	None	Well did not recharge, could not sample, PID 0.0
MW-3	NA	12.23	None	None	Clear water, ok recharge, PID 0.0
MW-4	12.87	13.8	0.93	11.16	Light yellow product, slightly sour-sweet odor, PID 0.0
MW-5	9.63	14.5	4.87	58.44	Dark black product, thick and sticky, PID 0.9
MW-6	8.73	12.49	3.76	45.12	Dark black product, thick and sticky, PID 0.0
MW-7	9	11.79	2.79	33.48	Dark black product, thick and sticky, PID 0.2
MW-8	NA	9.92	None	None	Well did not recharge, could not sample
MW-9	8.78	Not Measured*	Unknown	Unknown	Dark black product, very viscous, petroleum odor, PID = 36.5
MW-10	NA	8.7	None	None	Clear water, good recharge
MW-12	NA	7.73	None	None	Clear water, good recharge
MW-13	NA	7.78	None	None	Clear water, good recharge
MW-14	NA	8.55	None	None	Clear water, good recharge
MW-15	10.35	11.09	0.74	8.88	Dark black product, thick and sticky
MW-16	11.05	11.2	0.15	1.8	Dark product globules, not as dark or sticky as other wells
RW-1	NA	9	None	None	No product measured, PID 0.4,
RW-2	12.21	16.5	4.29	51.48	Dark brown to black viscous product, PID 0.0
RW-3	15.02	16.35	1.33	15.96	Dark brown to black viscous product, PID 0.0
RW-4	15.05	16.42	1.37	16.44	Dark brown to black viscous product, thicker than wells to west, PID 0.1
RW-5	13.92	14.5	0.58	6.96	Dark brown to black viscous product, thicker than wells to west, PID 1.5
RW-6	12.06	12.3	0.24	2.88	Dark brown to black product; slightly lighter than other wells, PID 0.1
RW-7	7.9	Not Measured*	Unknown	Unknown	Dark black product, very viscous, petroleum odor
RW-8	13.68	16.89	3.21	38.52	Dark brown to black viscous product, PID 0.5
RW-9	13.3	14.75	1.45	17.4	Dark brown to black viscous product, PID 4.5
RW-10	Pumped**	-	-	-	-
RW-11	13.28	15.55	2.27	27.24	Dark brown to black viscous product, PID 0.1
RW-12	12.87	17.66	4.79	57.48	Dark brown to black viscous product, PID 0.3

* Product thickness makes determining depth to water impossible, product coats meter which cannot determine presence of water.
** A skimmer pump continuously removes product from RW-10.

No free product was detected in several of the on-site and off-site groundwater monitoring wells including: MW-2 and MW-3 located in the southeastern portion of the building; MW-8 and MW-10 located in the sidewalk directly north of the on-site building; and, MW-12, MW-13, and MW-14 located to the northwest and west of subject property across the adjoining roadways.

Free product observations indicated the presence of three distinctly different products including 1) a dark, black, very viscous product (depth to water could not be measured due to coating meter) with a petroleum odor observed in MW-1, MW-9, and RW-7 located near the former fuel oil USTs; 2) a light yellow product with a slightly sour-sweet odor observed in MW-4 located near the western portion of the property; and, 3) a dark brown to black, sticky, product on the western portion of the subject property observed in MW-5 through MW-7; MW-15, MW-16, and RW-2 through RW-6; and, RW-8 through RW-12. No free product was observed in recovery well RW-1. The known lateral extent of free product, based on the measurements above, is depicted on Figure 4, Appendix A.

2.2.3 Direction of Groundwater Flow

ESI surveyed the height of each well casing relative to a fixed on-site benchmark, located four feet, four and one-quarter inch above the sidewalk on the southwest corner of the building and five feet eleven and three-quarters inch above the sidewalk on the northwest portion of the building (this corner of the building is rounded), and calculated the direction of groundwater flow based on the elevation of static groundwater as measured at all on-site monitoring wells, measured prior to water quality sample collection. Measurements were collected with an interface probe with an accuracy of measuring depth to the nearest 0.01 foot.

Groundwater was determined to be flowing from the east to the west across the subject property with the greatest elevation at MW-2 (87.52 feet) and the lowest elevation at MW-5 (80.15 feet, see Figure 5, Appendix A).

2.2.4 Monitoring Well Sampling

Groundwater sampling was conducted on February 15, 2009. Prior to sampling, each monitoring well casing was opened and the well column was immediately screened with a MiniRAE 3000 PID; however, the PID malfunctioned during the monitoring event and readings were not completed for all of the wells (see Table A, above). Each well was then investigated for the presence or absence of free product using a decontaminated interface probe (see Section 2.2.2, above).

Wells without free product present were purged using USEPA low-flow methodology as follows: 1) dedicated tubing was lowered to the bottom of the well and connected to a peristaltic pump; 2) the water level was measured before the pump was started and the well was pumped at a rate of 200 to 500 milliliters per minute; 3) the water level was measured every three minutes to ensure that stabilization (drawdown of 0.3' or less) was achieved; 4) during pumping, field indicator parameters (turbidity, temperature, specific conductance, pH, redox potential, and dissolved oxygen) were monitored and recorded; 5) the wells was pumped until stabilized was reached, when the indicator parameters stabilized for three consecutive readings; 6) the sample was collected directly from the pump tubing into laboratory supplied containers; 7) the purge water was containerized for proper off-site disposal at a later date; and, 8) the containers were placed in a cool (4° C), dry place prior to their transport to the laboratory. Appropriate chain-of-custody procedures were followed.

Groundwater was encountered between 7.7' (MW-12) and 14.5' (MW-5) bsg in the monitoring wells. Only seven wells did not have free product present (MW-2, MW-3, MW-8, MW-10, MW-12, MW-13, and MW-14) and of those wells, two (MW-2 and MW-8) could not be sampled because the wells would not stabilize during sampling (i.e., water level continued to drop regardless of pumping rate) indicating that connection to the groundwater table was not well established.

2.2.5 Collection of Free Product Samples

A product sample was collected from recovery well RW-7 (a dark, black, very viscous product with a petroleum odor), located near the former fuel oil USTs. This product sample was obtained by lowering an absorbent boom into the recovery well, allowing the boom to absorb some of the product, and then collecting the available free product directly into laboratory supplied glassware.

As described in Section 2.2.2, product with distinctly different characteristics was observed in other on-site monitoring and recovery wells during depth of product measurements. Product samples from two other wells, MW-4 (a light yellow product with a slightly sour-sweet odor) and RW-12 (a dark brown to black, sticky product), were collected by lowering an absorbent boom into the recovery well, allowing the boom to absorb some of the product, and then collecting the available free product directly into laboratory supplied glassware.

2.3 Laboratory Analysis

A summary of the results of the laboratory analyses conducted on the groundwater and free product samples is presented below. Data summary tables and the laboratory reports are provided in Appendices C and D, respectively, recommendations regarding these findings are located in Section 3.0.

2.3.1 Guidance Levels

The term "guidance level," as defined in this Report, refers to the concentration of a particular contaminant above which remedial actions are considered more likely. The overall objective of setting guidance levels is to assess the integrity of on-site groundwater relative to conditions that are likely to present a threat to public health or the environment, given the existing and probable future uses of the subject property. On-site groundwater with contaminant concentrations exceeding these guidance levels is considered more likely to warrant remediation. No independent risk assessment was performed as part of this investigation.

Guidance levels for groundwater are based on the NYSDEC Division of Water Technical & Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998 Edition (as modified through June 2004).

2.3.2 Sample Submission

Groundwater samples were submitted for laboratory analysis of VOCs (USEPA Method 8260) and semi-volatile organic compounds (SVOCs, USEPA Method 8270).

The free product sample from RW-7 was submitted to the laboratory for analysis of the presence of phthalates using USEPA Method 8270 selected ion monitoring.

The free product samples from MW-4 and RW-12 were submitted for identification of semi-volatile organic compounds by a library search using a gas chromatograph fitted with a mass spectrometer (GC/MS).

2.3.2 Laboratory Results

Groundwater

An elevated concentration of trichloroethylene (guidance level 5 µg/L) was detected in the sample from off-site monitoring well MW-13 (15 µg/L); estimated, low level concentrations of trichloroethylene were also detected in the samples from off-site wells MW-10 (1.1 µg/L) and MW-12 (2.5 µg/L). Estimated low levels of 1,1,1-trichloroethane (guidance level 5 µg/L) and 1,2,4-trimethylebenzene (guidance level 5 µg/L) were detected in the sample from MW-3 at a

concentration of 2.4 µg/L and 1.1 µg/L, respectively. In addition, estimated, low levels of methylene chloride (guidance level 5 µg/L), often a laboratory introduced contaminant, were detected in all samples (peak detection 3.9 µg/L, average detection 3.5 µg/L) and in the associated laboratory blank. No other VOCs were detected in any of the other samples.

An estimated, low level concentration of bis(2-ethylhexyl)phthalate (guidance level 5 µg/L) was detected at MW-13 (3.57 µg/L). No other SVOCs were detected in any of the other samples.

Free Product Samples

As stated above, three distinct products (based of field observations) were identified at the subject property (see Figure 4, Appendix A). The Work Plan included sampling of the free product from recovery well RW-7 with the intent of determining the presence or absence of significant concentrations of phthalates in the fuel oil known to be present in this area. Although sampling of the remaining free product was not included in the Work Plan, analysis of these two products was completed in order to more fully characterize existing conditions at the subject property. Analysis of the three products present at the subject property included the following results:

Fuel Oil Free Product

The free product sample from RW-7 was analyzed for the presence of seven common phthalate compounds (including benzyl butyl phthalate, bis(2-ethylhexyl)adipate, bis(2-ethylhexyl)phthalate, diethyl phthalate, dimethyl phthalate, di-n-butyl phthalate, and di-n-octyl phthalate).

Only two phthalate compounds, bis(2-ethylhexyl)phthalate and di-n-butyl phthalate, were detected in the free product sample from RW-7 at low levels. These compounds were detected at a de minimis level comprising 0.016% of the total free product sample (130 mg/kg of bis(2-ethylhexyl)phthalate and 30 mg/kg [estimated] of di-n-butyl phthalate). The absence of elevated concentrations of phthalates supports the conclusion that the product present in the recovery well is not an admixture of industrial wastes and can continue to be managed as a petroleum release.

Other Free Product Samples

GC/MS analysis of the samples indicated that the sample from MW-4 (light yellow product with a slightly sour-sweet odor) consisted of approximately 40.5% carboxylic acid esters (phthalates) and the sample from RW-12 (a dark brown to black, sticky, product) consisted of approximately 18% phthalates. The sample from RW-12 also consisted of a high boiling, paraffinic, petroleum based oil (e.g., mineral oil); the sample from MW-4 did not contain a significant amount of petroleum based oil.

Discussion of the results with the laboratory performing the analysis, Friedman & Bruya, Inc., indicated that the product from RW-12 consisted of a complex mixture of phthalates and a paraffinic oil (the components of paraffinic oil cannot be identified by the mass spectrometer because it does not separate into identifiable peaks) and that although only 40.5% of the product in MW-4 was identified as phthalates, it is likely that this product consists primarily of phthalates.

Several of the phthalates were repeatedly identified by the mass spectrometer during the analysis. This repeating of compounds is due to the comparison of detected peaks to the “library” of known chemicals. Although different peaks were identified, no known compound could be exactly matched to the specific peak, so the closest comparison was identified by the mass spectrometer.

3.0 CONCLUSIONS AND RECOMMENDATIONS

This office has completed the services summarized in Section 2.0 of this Report on the specified portion of the property, located at 49-55 Dupont Street, Borough of Brooklyn, New York. Services included: performing a tidal influence study, gauging of free product in all monitoring and recovery wells, if present, determining the direction of groundwater flow, sampling of monitoring wells without measurable free product to document groundwater quality and, collection and analysis of a free product sample from MW-4, RW-7, and RW-12 in order to identify the presence or absence of phthalates in RW-7 and the components of the products in MW-4 and RW-12.

Based on the services provided by this office and analytical data generated, the following conclusions and recommendations (shown in **bold**) are provided below.

1. Off-site monitoring wells MW-12 and MW-13 were determined to be tidally influenced but on-site wells showed no tidal fluctuation. Groundwater was determined to be flowing from the east to the west across the subject property.

2. Three distinctly different free products are located on-site; based on field evidence and laboratory analysis. These products include a) fuel oil, located on the northeast portion of the subject property, b) free product phthalates, located near the western portion of the property at monitoring well MW-4, and c) a mixture of phthalates and paraffinic oil, located on the western portion of the subject property.

   No free product was detected in the off-site wells located across the street to the west and northwest of the subject property (MW-12, MW-13, and MW-14). Free product phthalate and paraffinic oil depths ranged from a peak of 4.87 feet and 4.79 feet measured in MW-5 and RW-12, respectively, to 1.8 inches measured in MW-16. Free product petroleum measured 1.2 inches in MW-1; no free product petroleum depth measurement could be determined in RW-7 and MW-9 (located closest to the former fuel oil USTs) due to the consistency of the free product present.

   An Interim Remedial Measure Work Plan (IRM Work Plan) is being submitted under separate cover to address mass removal and source control of free product on the western portion of the subject property. Subsequent to implementation of the IRM Work Plan, a full-scale remediation plan should be developed and implemented to fully address the presence of free product phthalate on-site, which has been identified on the western portion of the subject property.

3. Sampling of monitoring wells was limited due to the presence of free product in many wells and the groundwater drawdown during pumping of monitoring wells MW-3 and MW-8. Current sampling data documents no significant contamination in any of the wells sampled, with the exception of trichloroethylene and a low level of bis(2-ethylhexyl) phthalate detected at off-site monitoring well MW-13, located to the northwest of the subject property.

   Prior to another round of groundwater monitoring, ESI recommends re-developing MW-3 and MW-8 in order to attempt to clear fine grained material which may be clogging the well screen leading to drawdown of the wells when pumping.

4. Previous reports have documented the presence of elevated levels of phthalates in soil on the western portion of the subject property (on Lots 1 and 10, only) and dissolved phase phthalates in on-site groundwater.

   Additional investigative and remedial activities will be needed to fully characterize groundwater quality and to address soil contamination subsequent to the implementation of the full-scale remediation of free product on-site (see #2, above).

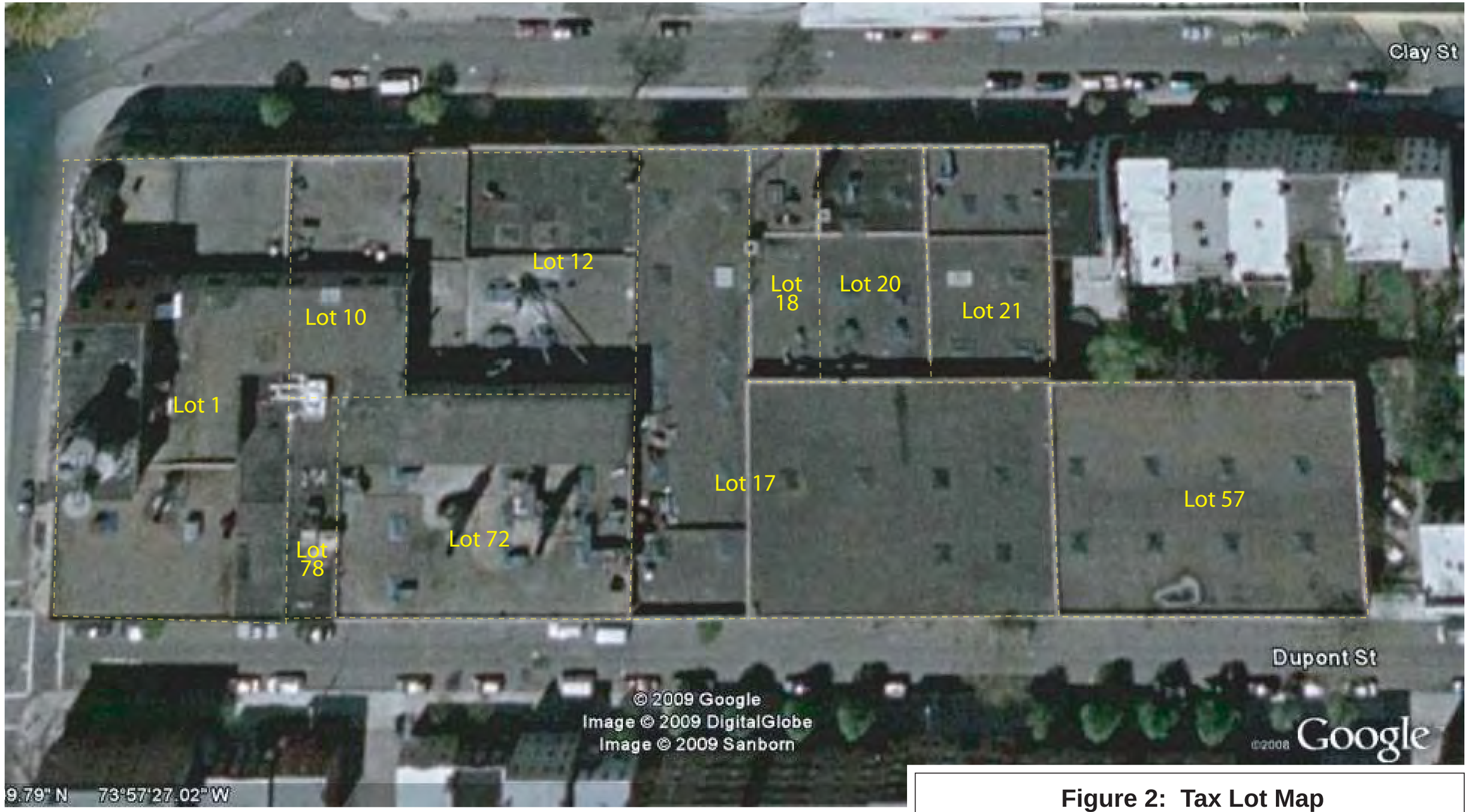
5. Free product petroleum present on the northeast portion of the subject property is unrelated to on-site production of plastic and vinyl products.

   It is recommended that this oil product be removed consistent with the Remedial Work Plan submitted to and approved by the NYSDEC spill officer assigned to event #0601852.

APPENDIX A

Maps

Figure 1: Site Location Map 49-55 Dupont Street Borough of Brooklyn Kings County, New York	N	ESI File: SB09110.51 April 2010 Appendix A

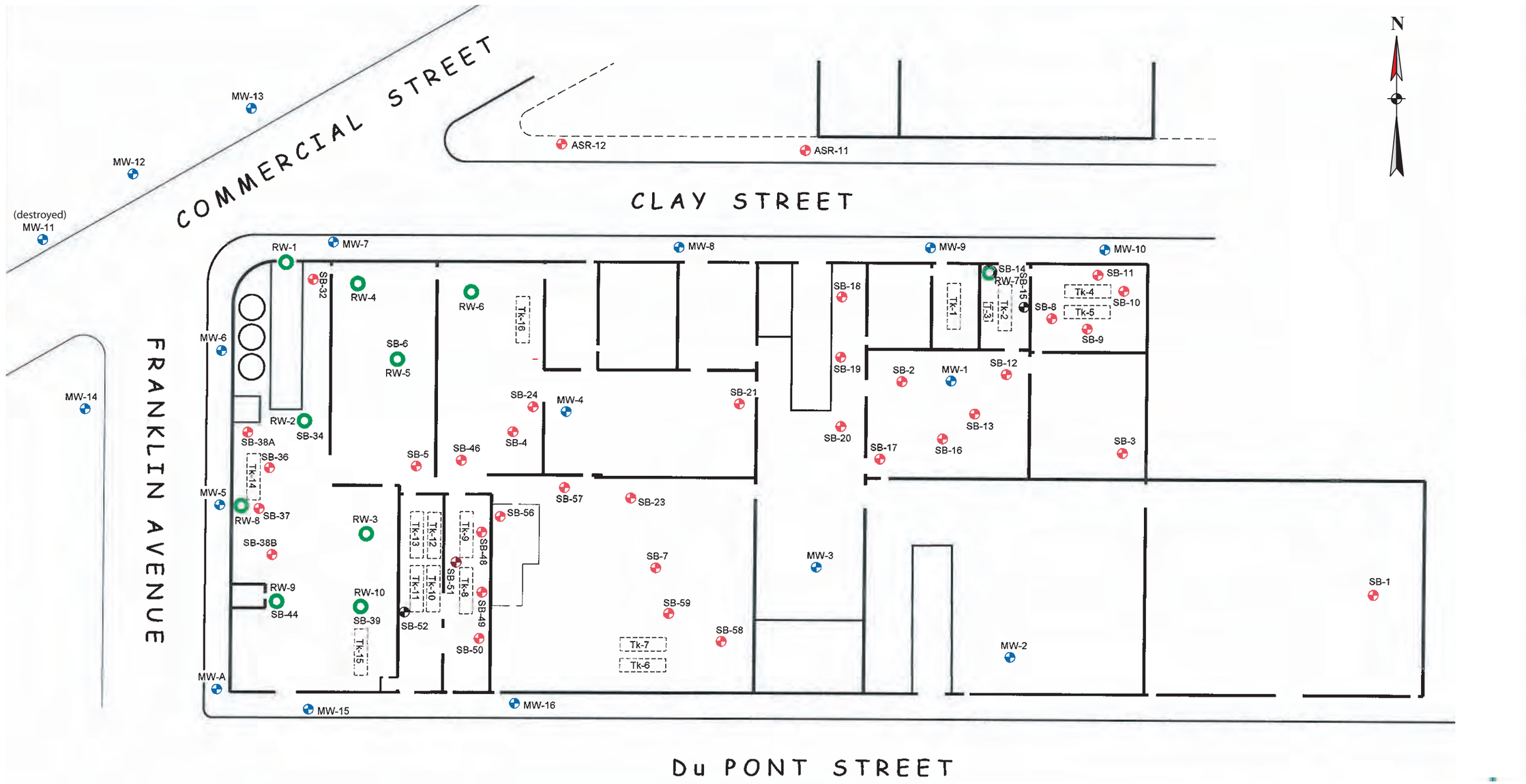


Source: Tax Lot lines from New York City Department of Finance, Digital Tax Map and Site Photograph from Google.com

Figure 2: Tax Lot Map

49-55 Dupont Street Borough of Brooklyn Kings County, New York	ESI File: SB09110.51	
	Not to Scale	
	April 2010	Appendix A

Ecosystems Strategies, Inc.



MW-2 Location of Groundwater Monitoring Well

SB-22 Location of Geoprobe Soil Boring

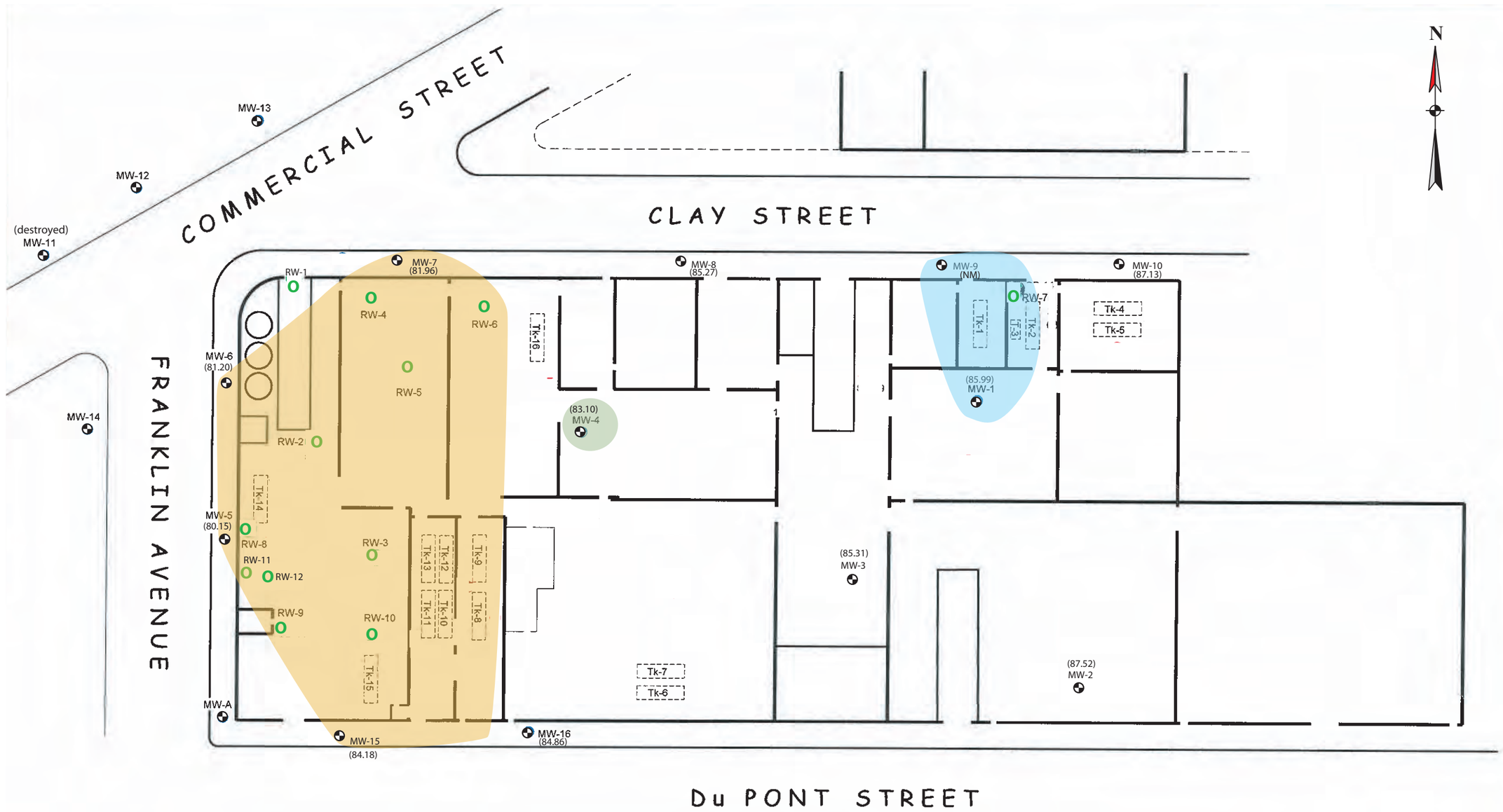
RW-3 Location of Product Recovery Wells

Base Map Source: Advanced Site Restoration, LLC - Borehole & Well Location Map December 2006 Rev: 12/14/06

Figure 3: Former Fieldwork Map

49-55 Dupont Street Borough of Brooklyn Kings County, New York	ESI File: SB09110.51
	Scale: 1 " = Approximately 47'
	April 2010 — Appendix A

Ecosystems Strategies, Inc.



MW-2 Location of Groundwater Monitoring Well

RW-3 Location of Product Recovery Wells

Dark brown to black phthalates/paraffinic oil (free product)

Yellow phthalates (free product)

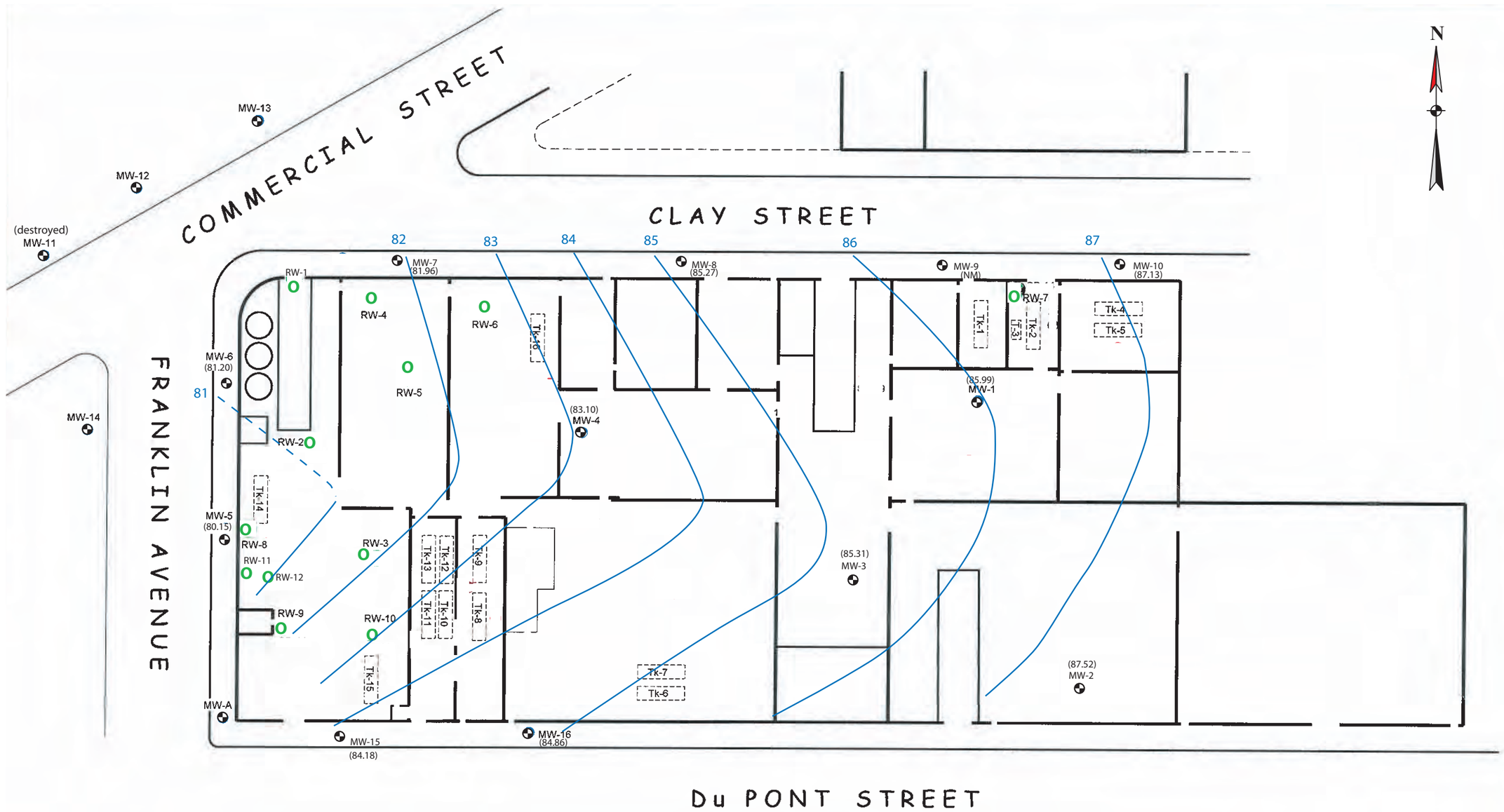
Petroleum (free product)

Base Map Source: Advanced Site Restoration, LLC - Borehole & Well Location Map December 2006 Rev: 12/14/06

Figure 4: Lateral Extent of Known Free Product

49-55 Dupont Street Borough of Brooklyn Kings County, New York	ESI File: SB09110.51
	Scale: 1 " = Approximately 47'
	April 2010 — Appendix A

Ecosystems Strategies, Inc.



MW-2 Location of Groundwater Monitoring Well

contour lines

RW-3 Location of Product Recovery Wells

Base Map Source: Advanced Site Restoration, LLC - Borehole & Well Location Map December 2006 Rev: 12/14/06

Figure 5: Groundwater Flow Map

49-55 Dupont Street
Borough of Brooklyn
Kings County, New York

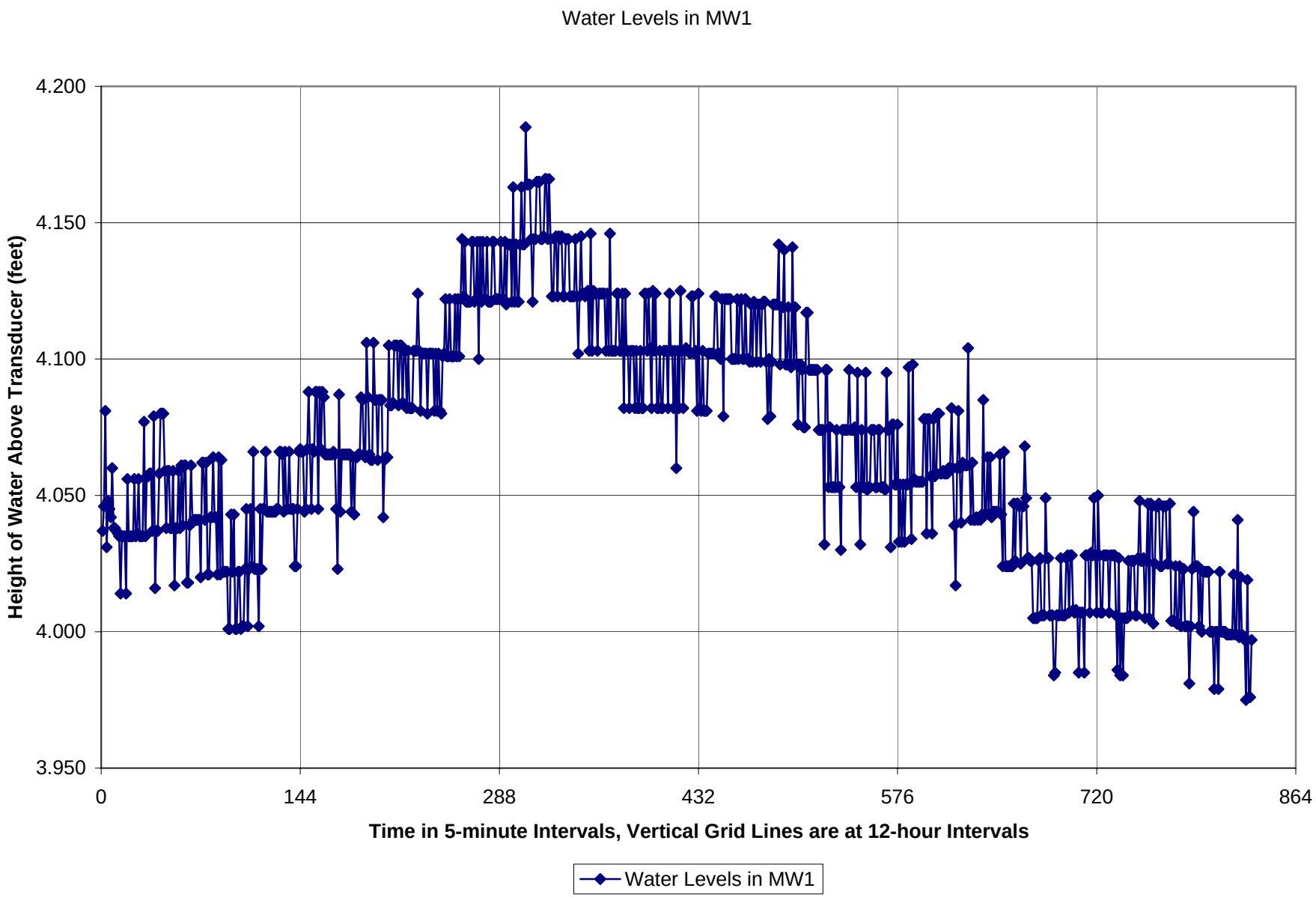
ESI File: SB09110.51

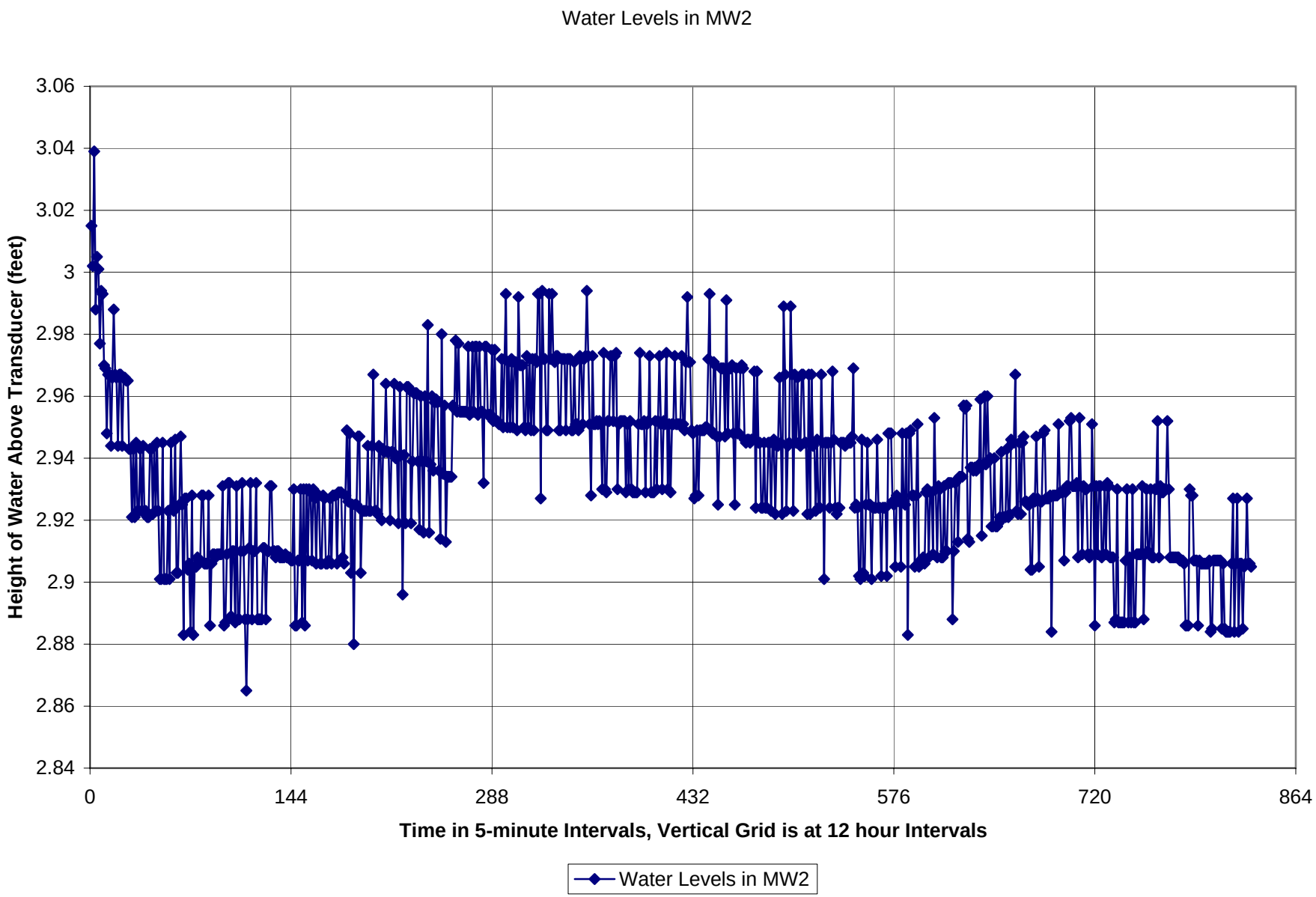
Scale: 1 " = Approximately 47'

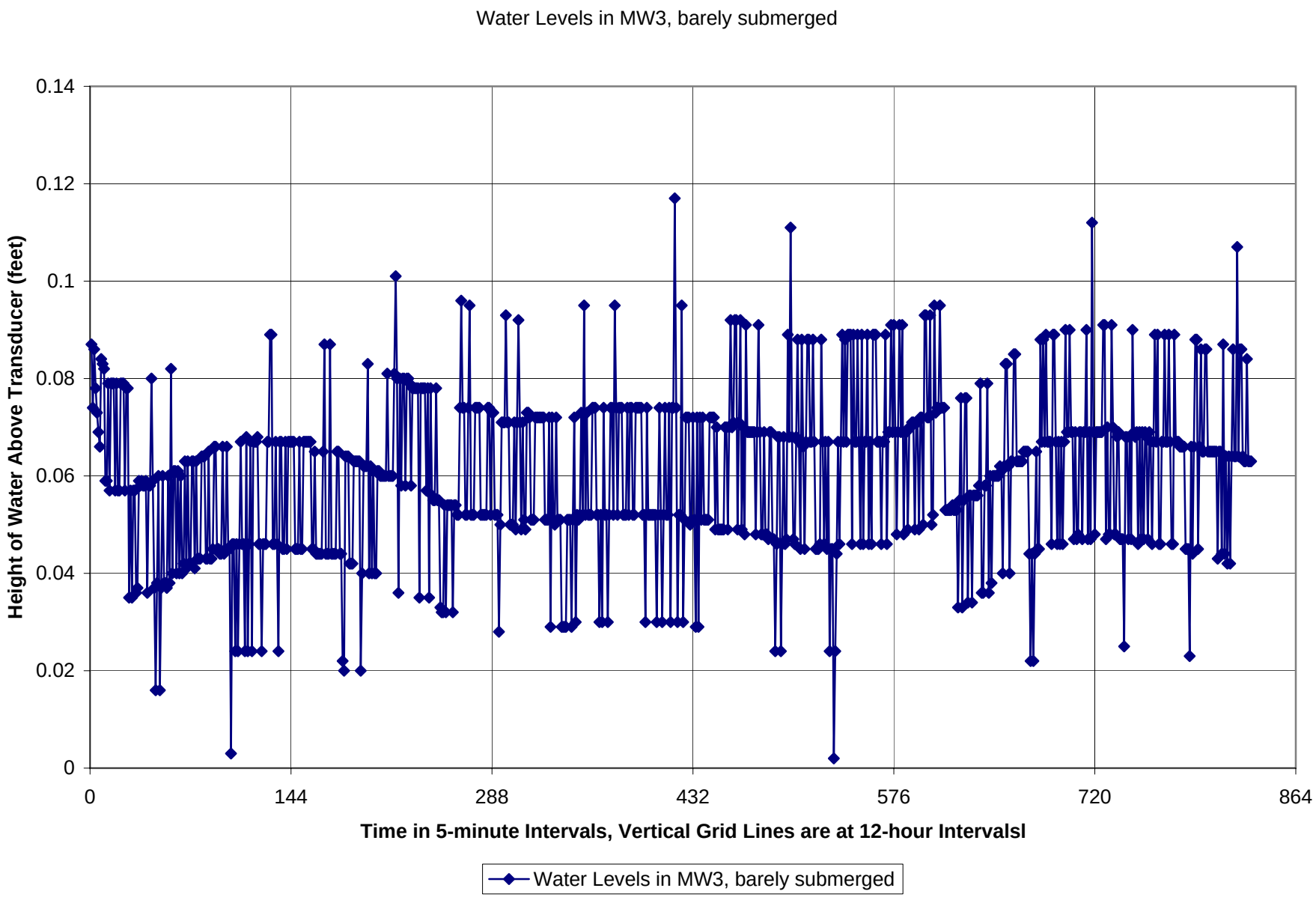
April 2010 | Appendix A

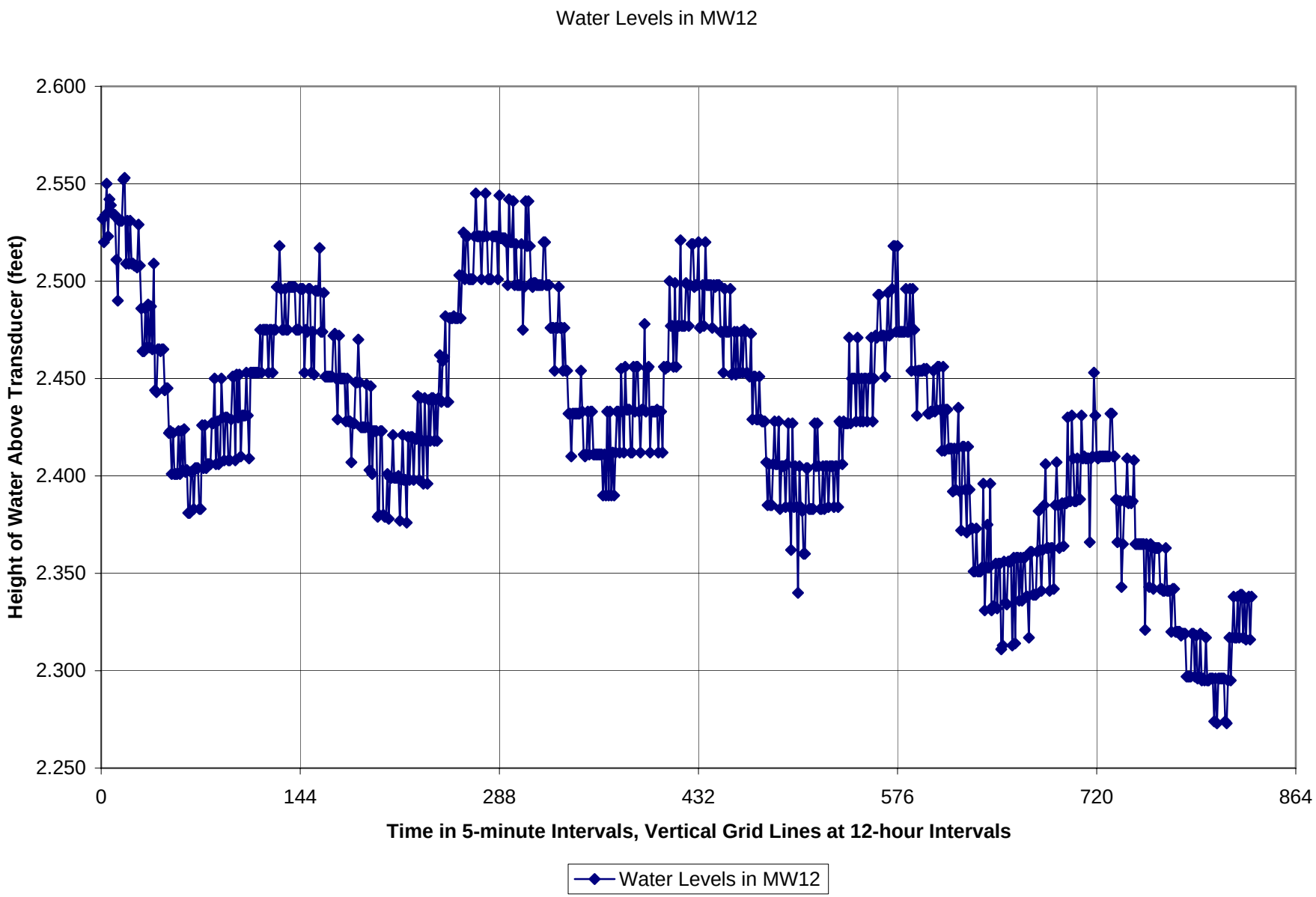
APPENDIX B

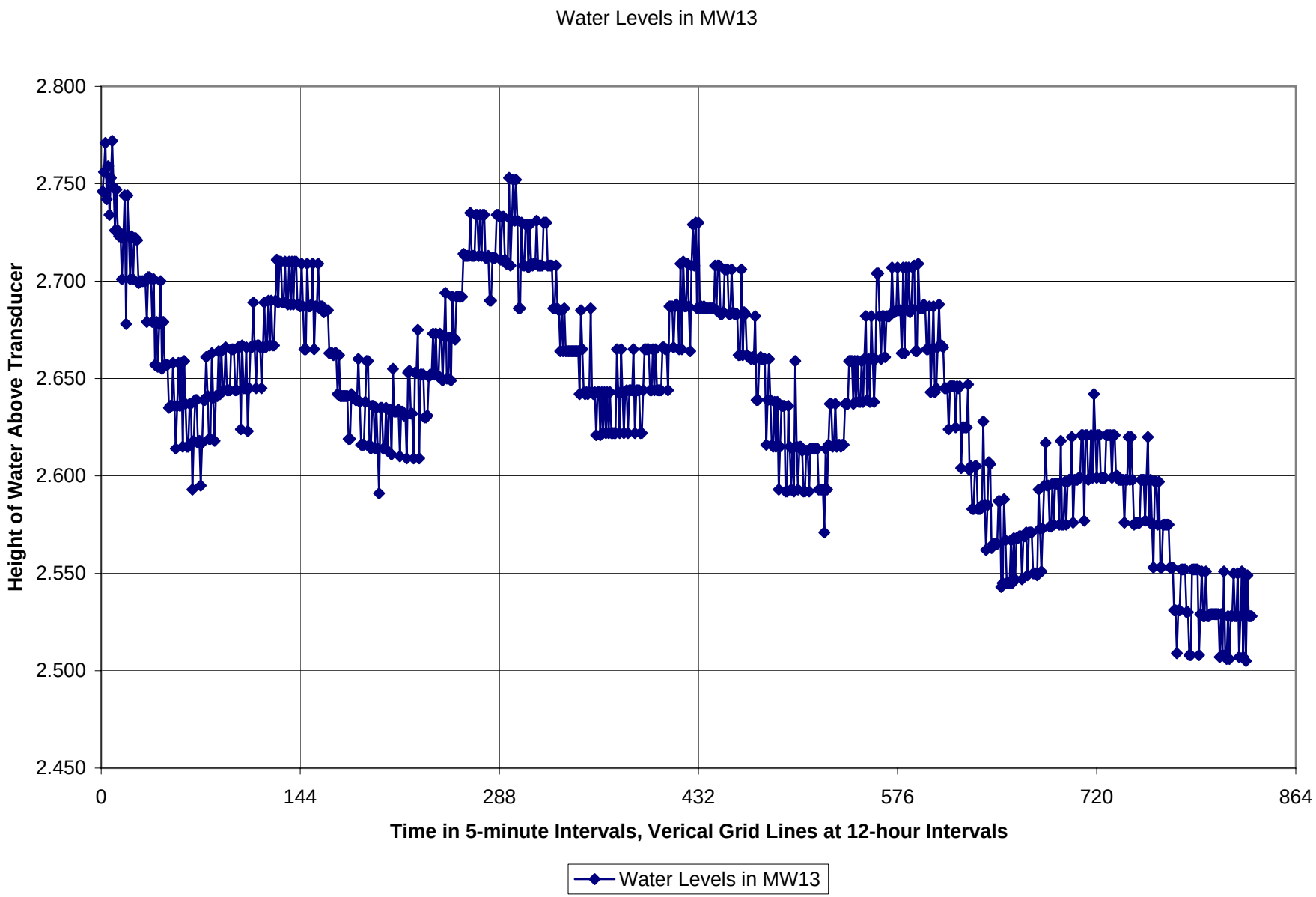
Water Level Graphs

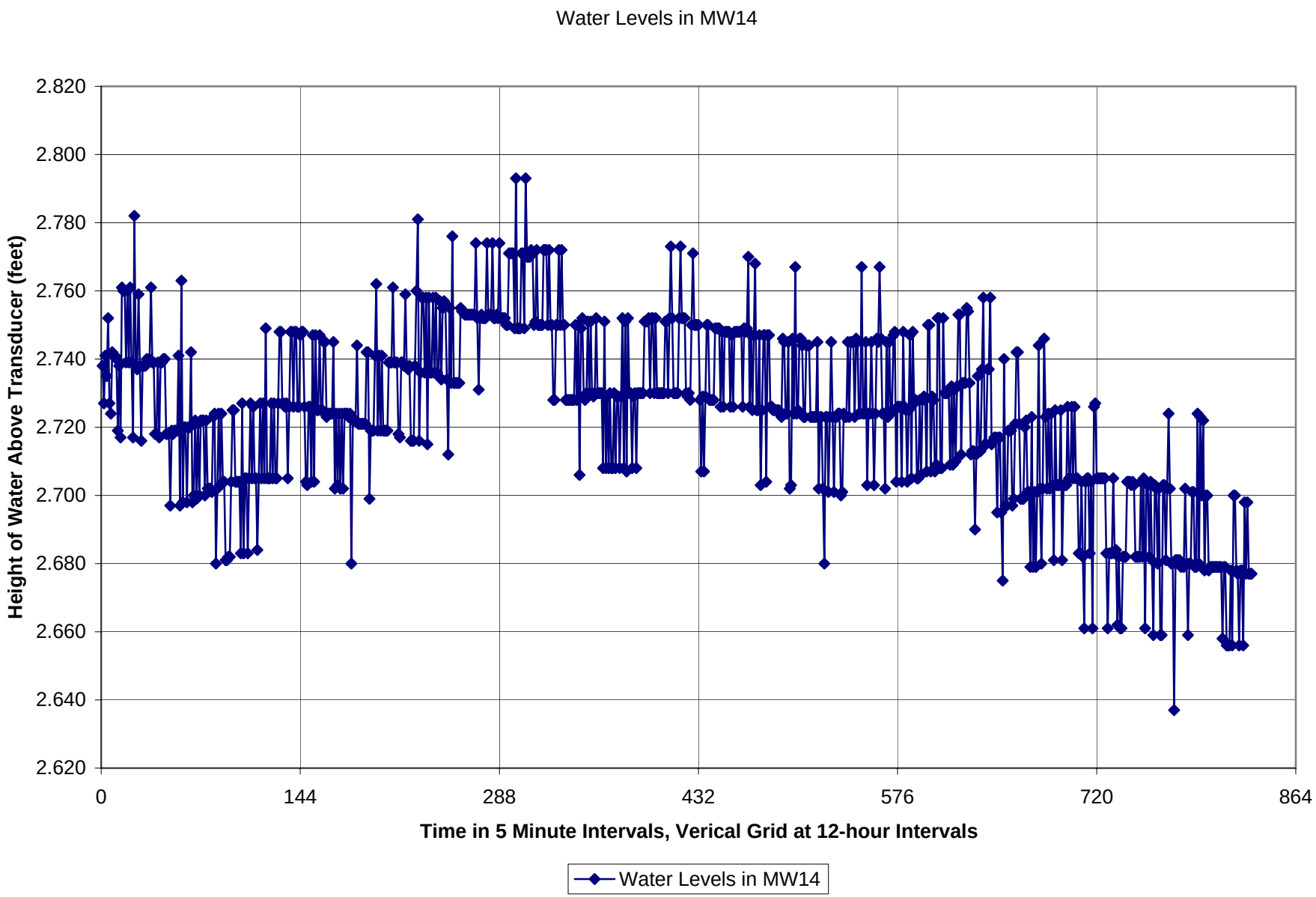

Water Levels in MW1
4.200
4.150
4.100
4.050
4.000
3.950
Height of Water Above Transducer (feet)
0
144
288
432
576
720
864
Time in 5-minute Intervals, Vertical Grid Lines are at 12-hour Intervals
Water Levels in MW1


Water Levels in MW2
3.06
3.04
3.02
3
2.98
2.96
2.94
2.92
2.9
2.88
2.86
2.84
Height of Water Above Transducer (feet)
0
144
288
432
576
720
864
Time in 5-minute Intervals, Vertical Grid is at 12 hour Intervals
Water Levels in MW2


Water Levels in MW3, barely submerged
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Height of Water Above Transducer (feet)
0
144
288
432
576
720
864
Time in 5-minute Intervals, Vertical Grid Lines are at 12-hour Intervalsl
Water Levels in MW3, barely submerged


Water Levels in MW12
2.600
2.550
2.500
2.450
2.400
2.350
2.300
2.250
Height of Water Above Transducer (feet)
0
144
288
432
576
720
864
Time in 5-minute Intervals, Vertical Grid Lines at 12-hour Intervals
Water Levels in MW12


Water Levels in MW13
2.800
2.750
2.700
2.650
2.600
2.550
2.500
2.450
Height of Water Above Transducer
0
144
288
432
576
720
864
Time in 5-minute Intervals, Verical Grid Lines at 12-hour Intervals
Water Levels in MW13


Water Levels in MW14
2.820
2.800
2.780
2.760
2.740
2.720
2.700
2.680
2.660
2.640
2.620
Height of Water Above Transducer (feet)
0
144
288
432
576
720
864
Time in 5 Minute Intervals, Verical Grid at 12-hour Intervals
Water Levels in MW14

APPENDIX C

Data Summary Tables

Table 1: VOCs in Water - ESI File: SB09110

All results provided in µg/L. Results in **bold** exceed designated guidance levels.

Compound (USEPA Method 8260)	Guidance Level	Sample Identification				
		MW-3	MW-10	MW-12	MW-13	MW-14
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	2.4 (J)	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND
1,1-Dichloroethylene	5	ND	ND	ND	ND	ND
1,1-Dichloropropylene	5	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	5	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	1.1 (J)	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND	ND
1,2-Dibromoethane	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND	ND
Bromodichloromethane	50	ND	ND	ND	ND	ND
Bromoform	50	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND
Chloromethane	5	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND
cis-1,3-Dichloropropylene	0.4	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND
Methylene chloride	5	3.4 (J)	3.4 (J)	3.0 (J)	3.9 (J)	3.6 (J)
Methyl tert-butyl ether (MTBE)	10	ND	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND	ND
p-&m-Xylenes	5	ND	ND	ND	ND	ND
p-Isopropyltoluene	5	ND	ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND	ND
Tetrachloroethylene	5	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	5	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	0.4	ND	ND	ND	ND	ND
Trichloroethylene	5	ND	1.1 (J)	2.5 (J)	**15**	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND

Notes:

Guidance levels based on NYSDEC Division of Water TOGS 1.1.1 (June 1998) and subsequent NYSDEC Memoranda

J - Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.

ND = Not Detected

Table 2: SVOCs in Water - ESI File: SB09110

All results provided in µg/L (parts per billion). Results in **bold** exceed designated guidance levels.

Compound (USEPA Method 8270)	Guidance Level	Sample Identification				
		MW-3	MW-10	MW-12	MW-13	MW-14
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	NE	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	ND	ND	ND	ND	ND
2,4-Dichlorophenol	5	ND	ND	ND	ND	ND
2,4-Dimethylphenol	50	ND	ND	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	NE	ND	ND	ND	ND	ND
2-Methylnaphthalene	NE	ND	ND	ND	ND	ND
2-Methylphenol	NE	ND	ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND	ND
2-Nitrophenol	NE	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	NE	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NE	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	NE	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NE	ND	ND	ND	ND	ND
4-Methylphenol	NE	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND
4-Nitrophenol	5	ND	ND	ND	ND	ND
Acenaphthene	20	ND	ND	ND	ND	ND
Acenaphthylene	NE	ND	ND	ND	ND	ND
Aniline	5	ND	ND	ND	ND	ND
Anthracene	50	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	ND	ND	ND	ND	ND
Benzo(a)pyrene	NE	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	ND	ND	ND	ND	ND
Benzo(ghi)perylene	NE	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	ND	ND	ND	ND	ND
Benzyl alcohol	NE	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	NE	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	5	ND	ND	ND	3.57 (J)	ND
Chrysene	0.002	ND	ND	ND	ND	ND
Dibenzo(a h)anthracene	NE	ND	ND	ND	ND	ND
Dibenzofuran	NE	ND	ND	ND	ND	ND
Diethyl phthalate	50	ND	ND	ND	ND	ND
Dimethyl phthalate	50	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND	ND	ND
Di-n-octyl phthalate	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	ND	ND	ND	ND
Nitrobenzene	0.4	ND	ND	ND	ND	ND
n-Nitroso-di-n-propylamine	NE	ND	ND	ND	ND	ND
n-Nitrosodimethylamine	50	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	ND	ND	ND	ND
Pyrene	50	ND	ND	ND	ND	ND
Pyridine	50	ND	ND	ND	ND	ND

Notes:

Guidance levels based on NYSDEC TOGS 1.1.1. (June 1998) and subsequent NYSDEC Memoranda

J - Data indicate the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.

ND = Not Detected NE = Not Established NA = Not Analyzed

APPENDIX D

Laboratory Data Reports

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Emery Lawson

Report Date: 02/22/2010
Client Project ID: SB09110
York Project (SDG) No.: 10B0508

Report Date: 02/22/2010
Client Project ID: SB09110
York Project (SDG) No.: 10B0508

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Emery Lawson

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 17, 2010 and listed below. The project was identified as your project: **SB09110**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
10B0508-01	MW-3	Water	02/15/2010	02/17/2010
10B0508-02	MW-10	Water	02/15/2010	02/17/2010
10B0508-03	MW-12	Water	02/15/2010	02/17/2010
10B0508-04	MW-13	Water	02/15/2010	02/17/2010
10B0508-05	MW-14	Water	02/15/2010	02/17/2010

General Notes for York Project (SDG) No.: 10B0508

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.

Approved By: **Date:** 02/22/2010

Robert Q. Bradley
Managing Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **MW-3** **York Sample ID:** **10B0508-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Volatile Organics, 8260 List

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	02/19/2010 22:56	02/19/2010 22:56	SS
71-55-6	**1,1,1-Trichloroethane**	**2.4**	J	"	0.95	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
79-34-5	1,1,2,2-Tetrachloroethane	ND		"	0.57	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		"	0.60	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
79-00-5	1,1,2-Trichloroethane	ND		"	0.61	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
75-34-3	1,1-Dichloroethane	ND		"	0.69	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
75-35-4	1,1-Dichloroethylene	ND		"	1.3	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
563-58-6	1,1-Dichloropropylene	ND		"	0.43	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
87-61-6	1,2,3-Trichlorobenzene	ND		"	0.37	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
96-18-4	1,2,3-Trichloropropane	ND		"	1.1	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
120-82-1	1,2,4-Trichlorobenzene	ND		"	0.48	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
95-63-6	**1,2,4-Trimethylbenzene**	**1.1**	J	"	0.53	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
96-12-8	1,2-Dibromo-3-chloropropane	ND		"	1.3	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
106-93-4	1,2-Dibromoethane	ND		"	0.68	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
95-50-1	1,2-Dichlorobenzene	ND		"	0.59	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
107-06-2	1,2-Dichloroethane	ND		"	0.65	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
78-87-5	1,2-Dichloropropane	ND		"	0.22	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
108-67-8	1,3,5-Trimethylbenzene	ND		"	0.37	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
541-73-1	1,3-Dichlorobenzene	ND		"	0.47	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
142-28-9	1,3-Dichloropropane	ND		"	0.69	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
106-46-7	1,4-Dichlorobenzene	ND		"	0.68	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
594-20-7	2,2-Dichloropropane	ND		"	0.96	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
95-49-8	2-Chlorotoluene	ND		"	0.49	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
106-43-4	4-Chlorotoluene	ND		"	0.49	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
71-43-2	Benzene	ND		"	0.48	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
108-86-1	Bromobenzene	ND		"	0.61	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
74-97-5	Bromochloromethane	ND		"	1.3	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
75-27-4	Bromodichloromethane	ND		"	0.62	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
75-25-2	Bromoform	ND		"	0.58	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
74-83-9	Bromomethane	ND		"	1.2	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
56-23-5	Carbon tetrachloride	ND		"	1.0	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
108-90-7	Chlorobenzene	ND		"	0.35	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
75-00-3	Chloroethane	ND		"	0.76	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
67-66-3	Chloroform	ND		"	0.36	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **MW-3** **York Sample ID:** **10B0508-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Volatile Organics, 8260 List

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.89	5.0	1	EPA SW846-8260B	02/19/2010 22:56	02/19/2010 22:56	"
156-59-2	cis-1,2-Dichloroethylene	ND		"	0.96	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
10061-01-5	cis-1,3-Dichloropropylene	ND		"	0.35	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
124-48-1	Dibromochloromethane	ND		"	0.67	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
74-95-3	Dibromomethane	ND		"	1.3	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
87-68-3	Dichlorodifluoromethane	ND		"	0.83	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
100-41-4	Ethyl Benzene	ND		"	0.35	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
87-68-3	Hexachlorobutadiene	ND		"	0.43	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
98-82-8	Isopropylbenzene	ND		"	0.39	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		"	0.38	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
75-09-2	**Methylene chloride**	**3.4**	B, J	"	1.1	10	"	"	02/19/2010 22:56	02/19/2010 22:56	"
91-20-3	Naphthalene	ND		"	0.50	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
104-51-8	n-Butylbenzene	ND		"	0.32	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
103-65-1	n-Propylbenzene	ND		"	0.58	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
95-47-6	o-Xylene	ND		"	0.50	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
1330-20-7P/M	p- & m- Xylenes	ND		"	0.55	10	"	"	02/19/2010 22:56	02/19/2010 22:56	"
99-87-6	p-Isopropyltoluene	ND		"	0.25	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
135-98-8	sec-Butylbenzene	ND		"	0.52	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
100-42-5	Styrene	ND		"	0.43	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
98-06-6	tert-Butylbenzene	ND		"	0.46	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
127-18-4	Tetrachloroethylene	ND		"	0.52	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
108-88-3	Toluene	ND		"	0.23	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
156-60-5	trans-1,2-Dichloroethylene	ND		"	0.65	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
10061-02-6	trans-1,3-Dichloropropylene	ND		"	0.68	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
79-01-6	Trichloroethylene	ND		"	0.57	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
75-69-4	Trichlorofluoromethane	ND		"	0.91	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"
75-01-4	Vinyl Chloride	ND		"	0.97	5.0	"	"	02/19/2010 22:56	02/19/2010 22:56	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: MW-3 **York Sample ID:** 10B0508-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Semi-Volatiles, 8270 Target List

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.35	5.13	1	EPA SW-846 8270C	02/18/2010 12:31	02/18/2010 23:55	TD
95-50-1	1,2-Dichlorobenzene	ND		"	1.68	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
541-73-1	1,3-Dichlorobenzene	ND		"	2.82	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
106-46-7	1,4-Dichlorobenzene	ND		"	3.31	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
95-95-4	2,4,5-Trichlorophenol	ND		"	3.70	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
88-06-2	2,4,6-Trichlorophenol	ND		"	3.36	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
120-83-2	2,4-Dichlorophenol	ND		"	3.17	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
105-67-9	2,4-Dimethylphenol	ND		"	3.78	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
51-28-5	2,4-Dinitrophenol	ND		"	9.85	10.3	"	"	02/18/2010 12:31	02/18/2010 23:55	"
121-14-2	2,4-Dinitrotoluene	ND		"	2.43	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
606-20-2	2,6-Dinitrotoluene	ND		"	3.60	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
91-58-7	2-Chloronaphthalene	ND		"	3.58	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
95-57-8	2-Chlorophenol	ND		"	3.50	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
91-57-6	2-Methylnaphthalene	ND		"	3.15	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
95-48-7	2-Methylphenol	ND		"	0.879	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
88-74-4	2-Nitroaniline	ND		"	3.08	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
88-75-5	2-Nitrophenol	ND		"	3.18	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
91-94-1	3,3'-Dichlorobenzidine	ND		"	3.60	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
99-09-2	3-Nitroaniline	ND		"	1.64	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
534-52-1	4,6-Dinitro-2-methylphenol	ND		"	6.87	10.3	"	"	02/18/2010 12:31	02/18/2010 23:55	"
101-55-3	4-Bromophenyl phenyl ether	ND		"	3.53	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
59-50-7	4-Chloro-3-methylphenol	ND		"	3.72	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
106-47-8	4-Chloroaniline	ND		"	3.84	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
7005-72-3	4-Chlorophenyl phenyl ether	ND		"	3.20	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
100-01-6	4-Methylphenol	ND		"	3.81	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
100-02-7	4-Nitroaniline	ND		"	3.87	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
56-57-5	4-Nitrophenol	ND		"	4.04	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
83-32-9	Acenaphthene	ND		"	3.32	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
208-96-8	Acenaphthylene	ND		"	4.38	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
62-53-3	Aniline	ND		"	2.02	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
120-12-7	Anthracene	ND		"	3.75	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
56-55-3	Benzo(a)anthracene	ND		"	4.17	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
50-32-8	Benzo(a)pyrene	ND		"	4.97	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
205-99-2	Benzo(b)fluoranthene	ND		"	4.23	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
191-24-2	Benzo(g,h,i)perylene	ND		"	4.26	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: MW-3 **York Sample ID:** 10B0508-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Semi-Volatiles, 8270 Target List

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		ug/L	3.54	5.13	1	EPA SW-846 8270C	02/18/2010 12:31	02/18/2010 23:55	"
100-51-6	Benzyl alcohol	ND		"	4.10	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
85-68-7	Benzyl butyl phthalate	ND		"	2.36	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
111-91-1	Bis(2-chloroethoxy)methane	ND		"	4.97	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
111-44-4	Bis(2-chloroethyl)ether	ND		"	4.23	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
108-60-1	Bis(2-chloroisopropyl)ether	ND		"	4.26	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
117-81-7	Bis(2-ethylhexyl)phthalate	ND		"	2.64	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
218-01-9	Chrysene	ND		"	4.26	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
53-70-3	Dibenzo(a,h)anthracene	ND		"	3.18	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
132-64-9	Dibenzofuran	ND		"	2.97	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
84-66-2	Diethyl phthalate	ND		"	2.26	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
131-11-3	Dimethyl phthalate	ND		"	4.97	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
84-74-2	Di-n-butyl phthalate	ND		"	4.23	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
117-84-0	Di-n-octyl phthalate	ND		"	4.26	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
206-44-0	Fluoranthene	ND		"	1.64	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
86-73-7	Fluorene	ND		"	3.31	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
118-74-1	Hexachlorobenzene	ND		"	3.03	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
87-68-3	Hexachlorobutadiene	ND		"	3.39	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
77-47-4	Hexachlorocyclopentadiene	ND		"	3.53	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
67-72-1	Hexachloroethane	ND		"	3.72	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
193-39-5	Indeno(1,2,3-cd)pyrene	ND		"	2.82	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
78-59-1	Isophorone	ND		"	3.31	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
91-20-3	Naphthalene	ND		"	3.96	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
98-95-3	Nitrobenzene	ND		"	2.02	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
62-75-9	N-Nitrosodimethylamine	ND		"	3.18	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
621-64-7	N-nitroso-di-n-propylamine	ND		"	2.64	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
86-30-6	N-Nitrosodiphenylamine	ND		"	3.71	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
87-86-5	Pentachlorophenol	ND		"	3.86	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
85-01-8	Phenanthrene	ND		"	3.70	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
108-95-2	Phenol	ND		"	3.36	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
129-00-0	Pyrene	ND		"	2.43	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"
110-86-1	Pyridine	ND		"	3.27	5.13	"	"	02/18/2010 12:31	02/18/2010 23:55	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: MW-10 **York Sample ID:** 10B0508-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Volatile Organics, 8260 List

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	02/19/2010 23:31	02/19/2010 23:31	SS
71-55-6	1,1,1-Trichloroethane	ND		"	0.95	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
79-34-5	1,1,2,2-Tetrachloroethane	ND		"	0.57	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		"	0.60	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
79-00-5	1,1,2-Trichloroethane	ND		"	0.61	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
75-34-3	1,1-Dichloroethane	ND		"	0.69	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
75-35-4	1,1-Dichloroethylene	ND		"	1.3	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
563-58-6	1,1-Dichloropropylene	ND		"	0.43	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
87-61-6	1,2,3-Trichlorobenzene	ND		"	0.37	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
96-18-4	1,2,3-Trichloropropane	ND		"	1.1	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
120-82-1	1,2,4-Trichlorobenzene	ND		"	0.48	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
95-63-6	1,2,4-Trimethylbenzene	ND		"	0.53	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
96-12-8	1,2-Dibromo-3-chloropropane	ND		"	1.3	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
106-93-4	1,2-Dibromoethane	ND		"	0.68	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
95-50-1	1,2-Dichlorobenzene	ND		"	0.59	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
107-06-2	1,2-Dichloroethane	ND		"	0.65	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
78-87-5	1,2-Dichloropropane	ND		"	0.22	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
108-67-8	1,3,5-Trimethylbenzene	ND		"	0.37	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
541-73-1	1,3-Dichlorobenzene	ND		"	0.47	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
142-28-9	1,3-Dichloropropane	ND		"	0.69	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
106-46-7	1,4-Dichlorobenzene	ND		"	0.68	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
594-20-7	2,2-Dichloropropane	ND		"	0.96	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
95-49-8	2-Chlorotoluene	ND		"	0.49	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
106-43-4	4-Chlorotoluene	ND		"	0.49	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
71-43-2	Benzene	ND		"	0.48	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
108-86-1	Bromobenzene	ND		"	0.61	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
74-97-5	Bromochloromethane	ND		"	1.3	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
75-27-4	Bromodichloromethane	ND		"	0.62	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
75-25-2	Bromoform	ND		"	0.58	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
74-83-9	Bromomethane	ND		"	1.2	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
56-23-5	Carbon tetrachloride	ND		"	1.0	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
108-90-7	Chlorobenzene	ND		"	0.35	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
75-00-3	Chloroethane	ND		"	0.76	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
67-66-3	Chloroform	ND		"	0.36	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **MW-10** **York Sample ID:** **10B0508-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Volatile Organics, 8260 List

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.89	5.0	1	EPA SW846-8260B	02/19/2010 23:31	02/19/2010 23:31	"
156-59-2	cis-1,2-Dichloroethylene	ND		"	0.96	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
10061-01-5	cis-1,3-Dichloropropylene	ND		"	0.35	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
124-48-1	Dibromochloromethane	ND		"	0.67	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
74-95-3	Dibromomethane	ND		"	1.3	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
87-68-3	Dichlorodifluoromethane	ND		"	0.83	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
100-41-4	Ethyl Benzene	ND		"	0.35	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
87-68-3	Hexachlorobutadiene	ND		"	0.43	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
98-82-8	Isopropylbenzene	ND		"	0.39	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		"	0.38	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
75-09-2	**Methylene chloride**	**3.4**	B, J	"	1.1	10	"	"	02/19/2010 23:31	02/19/2010 23:31	"
91-20-3	Naphthalene	ND		"	0.50	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
104-51-8	n-Butylbenzene	ND		"	0.32	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
103-65-1	n-Propylbenzene	ND		"	0.58	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
95-47-6	o-Xylene	ND		"	0.50	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
1330-20-7P/M	p- & m- Xylenes	ND		"	0.55	10	"	"	02/19/2010 23:31	02/19/2010 23:31	"
99-87-6	p-Isopropyltoluene	ND		"	0.25	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
135-98-8	sec-Butylbenzene	ND		"	0.52	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
100-42-5	Styrene	ND		"	0.43	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
98-06-6	tert-Butylbenzene	ND		"	0.46	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
127-18-4	Tetrachloroethylene	ND		"	0.52	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
108-88-3	Toluene	ND		"	0.23	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
156-60-5	trans-1,2-Dichloroethylene	ND		"	0.65	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
10061-02-6	trans-1,3-Dichloropropylene	ND		"	0.68	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
79-01-6	**Trichloroethylene**	**1.1**	J	"	0.57	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
75-69-4	Trichlorofluoromethane	ND		"	0.91	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"
75-01-4	Vinyl Chloride	ND		"	0.97	5.0	"	"	02/19/2010 23:31	02/19/2010 23:31	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: MW-10 **York Sample ID:** 10B0508-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Semi-Volatiles, 8270 Target List

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.35	5.13	1	EPA SW-846 8270C	02/18/2010 12:31	02/19/2010 00:30	TD
95-50-1	1,2-Dichlorobenzene	ND		"	1.68	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
541-73-1	1,3-Dichlorobenzene	ND		"	2.82	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
106-46-7	1,4-Dichlorobenzene	ND		"	3.31	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
95-95-4	2,4,5-Trichlorophenol	ND		"	3.70	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
88-06-2	2,4,6-Trichlorophenol	ND		"	3.36	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
120-83-2	2,4-Dichlorophenol	ND		"	3.17	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
105-67-9	2,4-Dimethylphenol	ND		"	3.78	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
51-28-5	2,4-Dinitrophenol	ND		"	9.85	10.3	"	"	02/18/2010 12:31	02/19/2010 00:30	"
121-14-2	2,4-Dinitrotoluene	ND		"	2.43	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
606-20-2	2,6-Dinitrotoluene	ND		"	3.60	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
91-58-7	2-Chloronaphthalene	ND		"	3.58	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
95-57-8	2-Chlorophenol	ND		"	3.50	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
91-57-6	2-Methylnaphthalene	ND		"	3.15	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
95-48-7	2-Methylphenol	ND		"	0.879	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
88-74-4	2-Nitroaniline	ND		"	3.08	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
88-75-5	2-Nitrophenol	ND		"	3.18	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
91-94-1	3,3'-Dichlorobenzidine	ND		"	3.60	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
99-09-2	3-Nitroaniline	ND		"	1.64	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
534-52-1	4,6-Dinitro-2-methylphenol	ND		"	6.87	10.3	"	"	02/18/2010 12:31	02/19/2010 00:30	"
101-55-3	4-Bromophenyl phenyl ether	ND		"	3.53	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
59-50-7	4-Chloro-3-methylphenol	ND		"	3.72	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
106-47-8	4-Chloroaniline	ND		"	3.84	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
7005-72-3	4-Chlorophenyl phenyl ether	ND		"	3.20	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
100-01-6	4-Methylphenol	ND		"	3.81	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
100-02-7	4-Nitroaniline	ND		"	3.87	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
56-57-5	4-Nitrophenol	ND		"	4.04	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
83-32-9	Acenaphthene	ND		"	3.32	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
208-96-8	Acenaphthylene	ND		"	4.38	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
62-53-3	Aniline	ND		"	2.02	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
120-12-7	Anthracene	ND		"	3.75	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
56-55-3	Benzo(a)anthracene	ND		"	4.17	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
50-32-8	Benzo(a)pyrene	ND		"	4.97	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
205-99-2	Benzo(b)fluoranthene	ND		"	4.23	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
191-24-2	Benzo(g,h,i)perylene	ND		"	4.26	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **MW-10** **York Sample ID:** **10B0508-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Semi-Volatiles, 8270 Target List

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		ug/L	3.54	5.13	1	EPA SW-846 8270C	02/18/2010 12:31	02/19/2010 00:30	"
100-51-6	Benzyl alcohol	ND		"	4.10	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
85-68-7	Benzyl butyl phthalate	ND		"	2.36	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
111-91-1	Bis(2-chloroethoxy)methane	ND		"	4.97	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
111-44-4	Bis(2-chloroethyl)ether	ND		"	4.23	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
108-60-1	Bis(2-chloroisopropyl)ether	ND		"	4.26	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
117-81-7	Bis(2-ethylhexyl)phthalate	ND		"	2.64	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
218-01-9	Chrysene	ND		"	4.26	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
53-70-3	Dibenzo(a,h)anthracene	ND		"	3.18	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
132-64-9	Dibenzofuran	ND		"	2.97	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
84-66-2	Diethyl phthalate	ND		"	2.26	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
131-11-3	Dimethyl phthalate	ND		"	4.97	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
84-74-2	Di-n-butyl phthalate	ND		"	4.23	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
117-84-0	Di-n-octyl phthalate	ND		"	4.26	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
206-44-0	Fluoranthene	ND		"	1.64	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
86-73-7	Fluorene	ND		"	3.31	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
118-74-1	Hexachlorobenzene	ND		"	3.03	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
87-68-3	Hexachlorobutadiene	ND		"	3.39	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
77-47-4	Hexachlorocyclopentadiene	ND		"	3.53	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
67-72-1	Hexachloroethane	ND		"	3.72	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
193-39-5	Indeno(1,2,3-cd)pyrene	ND		"	2.82	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
78-59-1	Isophorone	ND		"	3.31	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
91-20-3	Naphthalene	ND		"	3.96	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
98-95-3	Nitrobenzene	ND		"	2.02	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
62-75-9	N-Nitrosodimethylamine	ND		"	3.18	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
621-64-7	N-nitroso-di-n-propylamine	ND		"	2.64	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
86-30-6	N-Nitrosodiphenylamine	ND		"	3.71	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
87-86-5	Pentachlorophenol	ND		"	3.86	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
85-01-8	Phenanthrene	ND		"	3.70	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
108-95-2	Phenol	ND		"	3.36	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
129-00-0	Pyrene	ND		"	2.43	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"
110-86-1	Pyridine	ND		"	3.27	5.13	"	"	02/18/2010 12:31	02/19/2010 00:30	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: MW-12 **York Sample ID:** 10B0508-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Volatile Organics, 8260 List

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	02/20/2010 00:05	02/20/2010 00:05	SS
71-55-6	1,1,1-Trichloroethane	ND		"	0.95	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
79-34-5	1,1,2,2-Tetrachloroethane	ND		"	0.57	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		"	0.60	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
79-00-5	1,1,2-Trichloroethane	ND		"	0.61	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
75-34-3	1,1-Dichloroethane	ND		"	0.69	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
75-35-4	1,1-Dichloroethylene	ND		"	1.3	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
563-58-6	1,1-Dichloropropylene	ND		"	0.43	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
87-61-6	1,2,3-Trichlorobenzene	ND		"	0.37	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
96-18-4	1,2,3-Trichloropropane	ND		"	1.1	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
120-82-1	1,2,4-Trichlorobenzene	ND		"	0.48	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
95-63-6	1,2,4-Trimethylbenzene	ND		"	0.53	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
96-12-8	1,2-Dibromo-3-chloropropane	ND		"	1.3	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
106-93-4	1,2-Dibromoethane	ND		"	0.68	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
95-50-1	1,2-Dichlorobenzene	ND		"	0.59	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
107-06-2	1,2-Dichloroethane	ND		"	0.65	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
78-87-5	1,2-Dichloropropane	ND		"	0.22	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
108-67-8	1,3,5-Trimethylbenzene	ND		"	0.37	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
541-73-1	1,3-Dichlorobenzene	ND		"	0.47	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
142-28-9	1,3-Dichloropropane	ND		"	0.69	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
106-46-7	1,4-Dichlorobenzene	ND		"	0.68	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
594-20-7	2,2-Dichloropropane	ND		"	0.96	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
95-49-8	2-Chlorotoluene	ND		"	0.49	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
106-43-4	4-Chlorotoluene	ND		"	0.49	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
71-43-2	Benzene	ND		"	0.48	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
108-86-1	Bromobenzene	ND		"	0.61	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
74-97-5	Bromochloromethane	ND		"	1.3	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
75-27-4	Bromodichloromethane	ND		"	0.62	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
75-25-2	Bromoform	ND		"	0.58	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
74-83-9	Bromomethane	ND		"	1.2	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
56-23-5	Carbon tetrachloride	ND		"	1.0	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
108-90-7	Chlorobenzene	ND		"	0.35	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
75-00-3	Chloroethane	ND		"	0.76	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
67-66-3	Chloroform	ND		"	0.36	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **MW-12** **York Sample ID:** **10B0508-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Volatile Organics, 8260 List

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.89	5.0	1	EPA SW846-8260B	02/20/2010 00:05	02/20/2010 00:05	"
156-59-2	cis-1,2-Dichloroethylene	ND		"	0.96	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
10061-01-5	cis-1,3-Dichloropropylene	ND		"	0.35	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
124-48-1	Dibromochloromethane	ND		"	0.67	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
74-95-3	Dibromomethane	ND		"	1.3	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
87-68-3	Dichlorodifluoromethane	ND		"	0.83	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
100-41-4	Ethyl Benzene	ND		"	0.35	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
87-68-3	Hexachlorobutadiene	ND		"	0.43	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
98-82-8	Isopropylbenzene	ND		"	0.39	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		"	0.38	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
75-09-2	**Methylene chloride**	**3.0**	B, J	"	1.1	10	"	"	02/20/2010 00:05	02/20/2010 00:05	"
91-20-3	Naphthalene	ND		"	0.50	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
104-51-8	n-Butylbenzene	ND		"	0.32	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
103-65-1	n-Propylbenzene	ND		"	0.58	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
95-47-6	o-Xylene	ND		"	0.50	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
1330-20-7P/M	p- & m- Xylenes	ND		"	0.55	10	"	"	02/20/2010 00:05	02/20/2010 00:05	"
99-87-6	p-Isopropyltoluene	ND		"	0.25	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
135-98-8	sec-Butylbenzene	ND		"	0.52	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
100-42-5	Styrene	ND		"	0.43	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
98-06-6	tert-Butylbenzene	ND		"	0.46	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
127-18-4	Tetrachloroethylene	ND		"	0.52	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
108-88-3	Toluene	ND		"	0.23	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
156-60-5	trans-1,2-Dichloroethylene	ND		"	0.65	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
10061-02-6	trans-1,3-Dichloropropylene	ND		"	0.68	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
79-01-6	**Trichloroethylene**	**2.5**	J	"	0.57	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
75-69-4	Trichlorofluoromethane	ND		"	0.91	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"
75-01-4	Vinyl Chloride	ND		"	0.97	5.0	"	"	02/20/2010 00:05	02/20/2010 00:05	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: MW-12 **York Sample ID:** 10B0508-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Semi-Volatiles, 8270 Target List

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.35	5.13	1	EPA SW-846 8270C	02/18/2010 12:31	02/19/2010 01:04	TD
95-50-1	1,2-Dichlorobenzene	ND		"	1.68	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
541-73-1	1,3-Dichlorobenzene	ND		"	2.82	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
106-46-7	1,4-Dichlorobenzene	ND		"	3.31	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
95-95-4	2,4,5-Trichlorophenol	ND		"	3.70	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
88-06-2	2,4,6-Trichlorophenol	ND		"	3.36	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
120-83-2	2,4-Dichlorophenol	ND		"	3.17	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
105-67-9	2,4-Dimethylphenol	ND		"	3.78	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
51-28-5	2,4-Dinitrophenol	ND		"	9.85	10.3	"	"	02/18/2010 12:31	02/19/2010 01:04	"
121-14-2	2,4-Dinitrotoluene	ND		"	2.43	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
606-20-2	2,6-Dinitrotoluene	ND		"	3.60	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
91-58-7	2-Chloronaphthalene	ND		"	3.58	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
95-57-8	2-Chlorophenol	ND		"	3.50	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
91-57-6	2-Methylnaphthalene	ND		"	3.15	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
95-48-7	2-Methylphenol	ND		"	0.879	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
88-74-4	2-Nitroaniline	ND		"	3.08	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
88-75-5	2-Nitrophenol	ND		"	3.18	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
91-94-1	3,3'-Dichlorobenzidine	ND		"	3.60	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
99-09-2	3-Nitroaniline	ND		"	1.64	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
534-52-1	4,6-Dinitro-2-methylphenol	ND		"	6.87	10.3	"	"	02/18/2010 12:31	02/19/2010 01:04	"
101-55-3	4-Bromophenyl phenyl ether	ND		"	3.53	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
59-50-7	4-Chloro-3-methylphenol	ND		"	3.72	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
106-47-8	4-Chloroaniline	ND		"	3.84	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
7005-72-3	4-Chlorophenyl phenyl ether	ND		"	3.20	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
100-01-6	4-Methylphenol	ND		"	3.81	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
100-02-7	4-Nitroaniline	ND		"	3.87	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
56-57-5	4-Nitrophenol	ND		"	4.04	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
83-32-9	Acenaphthene	ND		"	3.32	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
208-96-8	Acenaphthylene	ND		"	4.38	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
62-53-3	Aniline	ND		"	2.02	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
120-12-7	Anthracene	ND		"	3.75	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
56-55-3	Benzo(a)anthracene	ND		"	4.17	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
50-32-8	Benzo(a)pyrene	ND		"	4.97	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
205-99-2	Benzo(b)fluoranthene	ND		"	4.23	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
191-24-2	Benzo(g,h,i)perylene	ND		"	4.26	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: MW-12 **York Sample ID:** 10B0508-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Semi-Volatiles, 8270 Target List

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		ug/L	3.54	5.13	1	EPA SW-846 8270C	02/18/2010 12:31	02/19/2010 01:04	"
100-51-6	Benzyl alcohol	ND		"	4.10	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
85-68-7	Benzyl butyl phthalate	ND		"	2.36	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
111-91-1	Bis(2-chloroethoxy)methane	ND		"	4.97	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
111-44-4	Bis(2-chloroethyl)ether	ND		"	4.23	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
108-60-1	Bis(2-chloroisopropyl)ether	ND		"	4.26	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
117-81-7	Bis(2-ethylhexyl)phthalate	ND		"	2.64	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
218-01-9	Chrysene	ND		"	4.26	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
53-70-3	Dibenzo(a,h)anthracene	ND		"	3.18	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
132-64-9	Dibenzofuran	ND		"	2.97	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
84-66-2	Diethyl phthalate	ND		"	2.26	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
131-11-3	Dimethyl phthalate	ND		"	4.97	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
84-74-2	Di-n-butyl phthalate	ND		"	4.23	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
117-84-0	Di-n-octyl phthalate	ND		"	4.26	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
206-44-0	Fluoranthene	ND		"	1.64	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
86-73-7	Fluorene	ND		"	3.31	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
118-74-1	Hexachlorobenzene	ND		"	3.03	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
87-68-3	Hexachlorobutadiene	ND		"	3.39	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
77-47-4	Hexachlorocyclopentadiene	ND		"	3.53	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
67-72-1	Hexachloroethane	ND		"	3.72	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
193-39-5	Indeno(1,2,3-cd)pyrene	ND		"	2.82	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
78-59-1	Isophorone	ND		"	3.31	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
91-20-3	Naphthalene	ND		"	3.96	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
98-95-3	Nitrobenzene	ND		"	2.02	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
62-75-9	N-Nitrosodimethylamine	ND		"	3.18	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
621-64-7	N-nitroso-di-n-propylamine	ND		"	2.64	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
86-30-6	N-Nitrosodiphenylamine	ND		"	3.71	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
87-86-5	Pentachlorophenol	ND		"	3.86	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
85-01-8	Phenanthrene	ND		"	3.70	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
108-95-2	Phenol	ND		"	3.36	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
129-00-0	Pyrene	ND		"	2.43	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"
110-86-1	Pyridine	ND		"	3.27	5.13	"	"	02/18/2010 12:31	02/19/2010 01:04	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: MW-13 **York Sample ID:** 10B0508-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Volatile Organics, 8260 List

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	02/20/2010 00:40	02/20/2010 00:40	SS
71-55-6	1,1,1-Trichloroethane	ND		"	0.95	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
79-34-5	1,1,2,2-Tetrachloroethane	ND		"	0.57	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		"	0.60	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
79-00-5	1,1,2-Trichloroethane	ND		"	0.61	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
75-34-3	1,1-Dichloroethane	ND		"	0.69	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
75-35-4	1,1-Dichloroethylene	ND		"	1.3	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
563-58-6	1,1-Dichloropropylene	ND		"	0.43	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
87-61-6	1,2,3-Trichlorobenzene	ND		"	0.37	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
96-18-4	1,2,3-Trichloropropane	ND		"	1.1	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
120-82-1	1,2,4-Trichlorobenzene	ND		"	0.48	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
95-63-6	1,2,4-Trimethylbenzene	ND		"	0.53	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
96-12-8	1,2-Dibromo-3-chloropropane	ND		"	1.3	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
106-93-4	1,2-Dibromoethane	ND		"	0.68	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
95-50-1	1,2-Dichlorobenzene	ND		"	0.59	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
107-06-2	1,2-Dichloroethane	ND		"	0.65	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
78-87-5	1,2-Dichloropropane	ND		"	0.22	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
108-67-8	1,3,5-Trimethylbenzene	ND		"	0.37	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
541-73-1	1,3-Dichlorobenzene	ND		"	0.47	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
142-28-9	1,3-Dichloropropane	ND		"	0.69	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
106-46-7	1,4-Dichlorobenzene	ND		"	0.68	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
594-20-7	2,2-Dichloropropane	ND		"	0.96	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
95-49-8	2-Chlorotoluene	ND		"	0.49	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
106-43-4	4-Chlorotoluene	ND		"	0.49	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
71-43-2	Benzene	ND		"	0.48	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
108-86-1	Bromobenzene	ND		"	0.61	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
74-97-5	Bromochloromethane	ND		"	1.3	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
75-27-4	Bromodichloromethane	ND		"	0.62	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
75-25-2	Bromoform	ND		"	0.58	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
74-83-9	Bromomethane	ND		"	1.2	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
56-23-5	Carbon tetrachloride	ND		"	1.0	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
108-90-7	Chlorobenzene	ND		"	0.35	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
75-00-3	Chloroethane	ND		"	0.76	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
67-66-3	Chloroform	ND		"	0.36	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **MW-13** **York Sample ID:** **10B0508-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Volatile Organics, 8260 List

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.89	5.0	1	EPA SW846-8260B	02/20/2010 00:40	02/20/2010 00:40	"
156-59-2	cis-1,2-Dichloroethylene	ND		"	0.96	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
10061-01-5	cis-1,3-Dichloropropylene	ND		"	0.35	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
124-48-1	Dibromochloromethane	ND		"	0.67	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
74-95-3	Dibromomethane	ND		"	1.3	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
87-68-3	Dichlorodifluoromethane	ND		"	0.83	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
100-41-4	Ethyl Benzene	ND		"	0.35	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
87-68-3	Hexachlorobutadiene	ND		"	0.43	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
98-82-8	Isopropylbenzene	ND		"	0.39	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		"	0.38	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
75-09-2	**Methylene chloride**	**3.9**	B, J	"	1.1	10	"	"	02/20/2010 00:40	02/20/2010 00:40	"
91-20-3	Naphthalene	ND		"	0.50	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
104-51-8	n-Butylbenzene	ND		"	0.32	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
103-65-1	n-Propylbenzene	ND		"	0.58	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
95-47-6	o-Xylene	ND		"	0.50	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
1330-20-7P/M	p- & m- Xylenes	ND		"	0.55	10	"	"	02/20/2010 00:40	02/20/2010 00:40	"
99-87-6	p-Isopropyltoluene	ND		"	0.25	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
135-98-8	sec-Butylbenzene	ND		"	0.52	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
100-42-5	Styrene	ND		"	0.43	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
98-06-6	tert-Butylbenzene	ND		"	0.46	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
127-18-4	Tetrachloroethylene	ND		"	0.52	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
108-88-3	Toluene	ND		"	0.23	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
156-60-5	trans-1,2-Dichloroethylene	ND		"	0.65	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
10061-02-6	trans-1,3-Dichloropropylene	ND		"	0.68	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
79-01-6	**Trichloroethylene**	**15**		"	0.57	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
75-69-4	Trichlorofluoromethane	ND		"	0.91	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"
75-01-4	Vinyl Chloride	ND		"	0.97	5.0	"	"	02/20/2010 00:40	02/20/2010 00:40	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: MW-13 **York Sample ID:** 10B0508-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Semi-Volatiles, 8270 Target List

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.42	5.41	1	EPA SW-846 8270C	02/18/2010 12:31	02/19/2010 02:12	TD
95-50-1	1,2-Dichlorobenzene	ND		"	1.77	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
541-73-1	1,3-Dichlorobenzene	ND		"	2.97	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
106-46-7	1,4-Dichlorobenzene	ND		"	3.49	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
95-95-4	2,4,5-Trichlorophenol	ND		"	3.90	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
88-06-2	2,4,6-Trichlorophenol	ND		"	3.54	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
120-83-2	2,4-Dichlorophenol	ND		"	3.34	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
105-67-9	2,4-Dimethylphenol	ND		"	3.98	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
51-28-5	2,4-Dinitrophenol	ND		"	10.4	10.8	"	"	02/18/2010 12:31	02/19/2010 02:12	"
121-14-2	2,4-Dinitrotoluene	ND		"	2.56	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
606-20-2	2,6-Dinitrotoluene	ND		"	3.79	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
91-58-7	2-Chloronaphthalene	ND		"	3.77	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
95-57-8	2-Chlorophenol	ND		"	3.69	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
91-57-6	2-Methylnaphthalene	ND		"	3.32	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
95-48-7	2-Methylphenol	ND		"	0.927	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
88-74-4	2-Nitroaniline	ND		"	3.25	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
88-75-5	2-Nitrophenol	ND		"	3.35	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
91-94-1	3,3'-Dichlorobenzidine	ND		"	3.80	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
99-09-2	3-Nitroaniline	ND		"	1.72	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
534-52-1	4,6-Dinitro-2-methylphenol	ND		"	7.24	10.8	"	"	02/18/2010 12:31	02/19/2010 02:12	"
101-55-3	4-Bromophenyl phenyl ether	ND		"	3.73	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
59-50-7	4-Chloro-3-methylphenol	ND		"	3.92	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
106-47-8	4-Chloroaniline	ND		"	4.04	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
7005-72-3	4-Chlorophenyl phenyl ether	ND		"	3.37	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
100-01-6	4-Methylphenol	ND		"	4.02	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
100-02-7	4-Nitroaniline	ND		"	4.07	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
56-57-5	4-Nitrophenol	ND		"	4.26	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
83-32-9	Acenaphthene	ND		"	3.50	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
208-96-8	Acenaphthylene	ND		"	4.62	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
62-53-3	Aniline	ND		"	2.13	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
120-12-7	Anthracene	ND		"	3.96	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
56-55-3	Benzo(a)anthracene	ND		"	4.40	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
50-32-8	Benzo(a)pyrene	ND		"	5.24	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
205-99-2	Benzo(b)fluoranthene	ND		"	4.45	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
191-24-2	Benzo(g,h,i)perylene	ND		"	4.49	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **MW-13** **York Sample ID:** **10B0508-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Semi-Volatiles, 8270 Target List

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		ug/L	3.74	5.41	1	EPA SW-846 8270C	02/18/2010 12:31	02/19/2010 02:12	"
100-51-6	Benzyl alcohol	ND		"	4.32	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
85-68-7	Benzyl butyl phthalate	ND		"	2.49	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
111-91-1	Bis(2-chloroethoxy)methane	ND		"	5.24	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
111-44-4	Bis(2-chloroethyl)ether	ND		"	4.45	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
108-60-1	Bis(2-chloroisopropyl)ether	ND		"	4.49	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
117-81-7	**Bis(2-ethylhexyl)phthalate**	**3.57**	J	"	2.78	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
218-01-9	Chrysene	ND		"	4.49	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
53-70-3	Dibenzo(a,h)anthracene	ND		"	3.35	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
132-64-9	Dibenzofuran	ND		"	3.14	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
84-66-2	Diethyl phthalate	ND		"	2.38	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
131-11-3	Dimethyl phthalate	ND		"	5.24	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
84-74-2	Di-n-butyl phthalate	ND		"	4.45	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
117-84-0	Di-n-octyl phthalate	ND		"	4.49	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
206-44-0	Fluoranthene	ND		"	1.72	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
86-73-7	Fluorene	ND		"	3.49	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
118-74-1	Hexachlorobenzene	ND		"	3.20	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
87-68-3	Hexachlorobutadiene	ND		"	3.58	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
77-47-4	Hexachlorocyclopentadiene	ND		"	3.73	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
67-72-1	Hexachloroethane	ND		"	3.92	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
193-39-5	Indeno(1,2,3-cd)pyrene	ND		"	2.97	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
78-59-1	Isophorone	ND		"	3.49	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
91-20-3	Naphthalene	ND		"	4.18	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
98-95-3	Nitrobenzene	ND		"	2.13	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
62-75-9	N-Nitrosodimethylamine	ND		"	3.35	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
621-64-7	N-nitroso-di-n-propylamine	ND		"	2.78	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
86-30-6	N-Nitrosodiphenylamine	ND		"	3.91	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
87-86-5	Pentachlorophenol	ND		"	4.07	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
85-01-8	Phenanthrene	ND		"	3.90	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
108-95-2	Phenol	ND		"	3.54	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
129-00-0	Pyrene	ND		"	2.56	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"
110-86-1	Pyridine	ND		"	3.44	5.41	"	"	02/18/2010 12:31	02/19/2010 02:12	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: MW-14 **York Sample ID:** 10B0508-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Volatile Organics, 8260 List

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B	02/20/2010 01:14	02/20/2010 01:14	SS
71-55-6	1,1,1-Trichloroethane	ND		"	0.95	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
79-34-5	1,1,2,2-Tetrachloroethane	ND		"	0.57	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		"	0.60	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
79-00-5	1,1,2-Trichloroethane	ND		"	0.61	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
75-34-3	1,1-Dichloroethane	ND		"	0.69	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
75-35-4	1,1-Dichloroethylene	ND		"	1.3	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
563-58-6	1,1-Dichloropropylene	ND		"	0.43	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
87-61-6	1,2,3-Trichlorobenzene	ND		"	0.37	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
96-18-4	1,2,3-Trichloropropane	ND		"	1.1	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
120-82-1	1,2,4-Trichlorobenzene	ND		"	0.48	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
95-63-6	1,2,4-Trimethylbenzene	ND		"	0.53	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
96-12-8	1,2-Dibromo-3-chloropropane	ND		"	1.3	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
106-93-4	1,2-Dibromoethane	ND		"	0.68	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
95-50-1	1,2-Dichlorobenzene	ND		"	0.59	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
107-06-2	1,2-Dichloroethane	ND		"	0.65	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
78-87-5	1,2-Dichloropropane	ND		"	0.22	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
108-67-8	1,3,5-Trimethylbenzene	ND		"	0.37	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
541-73-1	1,3-Dichlorobenzene	ND		"	0.47	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
142-28-9	1,3-Dichloropropane	ND		"	0.69	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
106-46-7	1,4-Dichlorobenzene	ND		"	0.68	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
594-20-7	2,2-Dichloropropane	ND		"	0.96	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
95-49-8	2-Chlorotoluene	ND		"	0.49	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
106-43-4	4-Chlorotoluene	ND		"	0.49	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
71-43-2	Benzene	ND		"	0.48	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
108-86-1	Bromobenzene	ND		"	0.61	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
74-97-5	Bromochloromethane	ND		"	1.3	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
75-27-4	Bromodichloromethane	ND		"	0.62	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
75-25-2	Bromoform	ND		"	0.58	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
74-83-9	Bromomethane	ND		"	1.2	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
56-23-5	Carbon tetrachloride	ND		"	1.0	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
108-90-7	Chlorobenzene	ND		"	0.35	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
75-00-3	Chloroethane	ND		"	0.76	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
67-66-3	Chloroform	ND		"	0.36	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **MW-14** **York Sample ID:** **10B0508-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Volatile Organics, 8260 List

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/L	0.89	5.0	1	EPA SW846-8260B	02/20/2010 01:14	02/20/2010 01:14	"
156-59-2	cis-1,2-Dichloroethylene	ND		"	0.96	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
10061-01-5	cis-1,3-Dichloropropylene	ND		"	0.35	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
124-48-1	Dibromochloromethane	ND		"	0.67	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
74-95-3	Dibromomethane	ND		"	1.3	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
87-68-3	Dichlorodifluoromethane	ND		"	0.83	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
100-41-4	Ethyl Benzene	ND		"	0.35	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
87-68-3	Hexachlorobutadiene	ND		"	0.43	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
98-82-8	Isopropylbenzene	ND		"	0.39	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		"	0.38	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
75-09-2	**Methylene chloride**	**3.6**	B, J	"	1.1	10	"	"	02/20/2010 01:14	02/20/2010 01:14	"
91-20-3	Naphthalene	ND		"	0.50	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
104-51-8	n-Butylbenzene	ND		"	0.32	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
103-65-1	n-Propylbenzene	ND		"	0.58	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
95-47-6	o-Xylene	ND		"	0.50	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
1330-20-7P/M	p- & m- Xylenes	ND		"	0.55	10	"	"	02/20/2010 01:14	02/20/2010 01:14	"
99-87-6	p-Isopropyltoluene	ND		"	0.25	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
135-98-8	sec-Butylbenzene	ND		"	0.52	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
100-42-5	Styrene	ND		"	0.43	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
98-06-6	tert-Butylbenzene	ND		"	0.46	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
127-18-4	Tetrachloroethylene	ND		"	0.52	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
108-88-3	Toluene	ND		"	0.23	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
156-60-5	trans-1,2-Dichloroethylene	ND		"	0.65	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
10061-02-6	trans-1,3-Dichloropropylene	ND		"	0.68	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
79-01-6	Trichloroethylene	ND		"	0.57	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
75-69-4	Trichlorofluoromethane	ND		"	0.91	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"
75-01-4	Vinyl Chloride	ND		"	0.97	5.0	"	"	02/20/2010 01:14	02/20/2010 01:14	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: MW-14 **York Sample ID:** 10B0508-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Semi-Volatiles, 8270 Target List

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.46	5.56	1	EPA SW-846 8270C	02/18/2010 12:31	02/19/2010 02:46	TD
95-50-1	1,2-Dichlorobenzene	ND		"	1.82	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
541-73-1	1,3-Dichlorobenzene	ND		"	3.05	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
106-46-7	1,4-Dichlorobenzene	ND		"	3.58	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
95-95-4	2,4,5-Trichlorophenol	ND		"	4.01	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
88-06-2	2,4,6-Trichlorophenol	ND		"	3.64	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
120-83-2	2,4-Dichlorophenol	ND		"	3.43	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
105-67-9	2,4-Dimethylphenol	ND		"	4.09	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
51-28-5	2,4-Dinitrophenol	ND		"	10.7	11.1	"	"	02/18/2010 12:31	02/19/2010 02:46	"
121-14-2	2,4-Dinitrotoluene	ND		"	2.63	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
606-20-2	2,6-Dinitrotoluene	ND		"	3.90	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
91-58-7	2-Chloronaphthalene	ND		"	3.88	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
95-57-8	2-Chlorophenol	ND		"	3.80	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
91-57-6	2-Methylnaphthalene	ND		"	3.42	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
95-48-7	2-Methylphenol	ND		"	0.952	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
88-74-4	2-Nitroaniline	ND		"	3.34	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
88-75-5	2-Nitrophenol	ND		"	3.45	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
91-94-1	3,3'-Dichlorobenzidine	ND		"	3.90	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
99-09-2	3-Nitroaniline	ND		"	1.77	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
534-52-1	4,6-Dinitro-2-methylphenol	ND		"	7.44	11.1	"	"	02/18/2010 12:31	02/19/2010 02:46	"
101-55-3	4-Bromophenyl phenyl ether	ND		"	3.83	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
59-50-7	4-Chloro-3-methylphenol	ND		"	4.03	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
106-47-8	4-Chloroaniline	ND		"	4.16	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
7005-72-3	4-Chlorophenyl phenyl ether	ND		"	3.47	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
100-01-6	4-Methylphenol	ND		"	4.13	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
100-02-7	4-Nitroaniline	ND		"	4.19	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
56-57-5	4-Nitrophenol	ND		"	4.38	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
83-32-9	Acenaphthene	ND		"	3.60	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
208-96-8	Acenaphthylene	ND		"	4.75	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
62-53-3	Aniline	ND		"	2.18	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
120-12-7	Anthracene	ND		"	4.07	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
56-55-3	Benzo(a)anthracene	ND		"	4.52	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
50-32-8	Benzo(a)pyrene	ND		"	5.39	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
205-99-2	Benzo(b)fluoranthene	ND		"	4.58	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
191-24-2	Benzo(g,h,i)perylene	ND		"	4.61	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: MW-14 **York Sample ID:** 10B0508-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Water	February 15, 2010 3:00 pm	02/17/2010

Semi-Volatiles, 8270 Target List

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		ug/L	3.84	5.56	1	EPA SW-846 8270C	02/18/2010 12:31	02/19/2010 02:46	"
100-51-6	Benzyl alcohol	ND		"	4.44	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
85-68-7	Benzyl butyl phthalate	ND		"	2.56	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
111-91-1	Bis(2-chloroethoxy)methane	ND		"	5.39	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
111-44-4	Bis(2-chloroethyl)ether	ND		"	4.58	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
108-60-1	Bis(2-chloroisopropyl)ether	ND		"	4.61	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
117-81-7	Bis(2-ethylhexyl)phthalate	ND		"	2.86	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
218-01-9	Chrysene	ND		"	4.61	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
53-70-3	Dibenzo(a,h)anthracene	ND		"	3.44	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
132-64-9	Dibenzofuran	ND		"	3.22	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
84-66-2	Diethyl phthalate	ND		"	2.44	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
131-11-3	Dimethyl phthalate	ND		"	5.39	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
84-74-2	Di-n-butyl phthalate	ND		"	4.58	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
117-84-0	Di-n-octyl phthalate	ND		"	4.61	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
206-44-0	Fluoranthene	ND		"	1.77	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
86-73-7	Fluorene	ND		"	3.58	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
118-74-1	Hexachlorobenzene	ND		"	3.28	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
87-68-3	Hexachlorobutadiene	ND		"	3.68	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
77-47-4	Hexachlorocyclopentadiene	ND		"	3.83	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
67-72-1	Hexachloroethane	ND		"	4.03	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
193-39-5	Indeno(1,2,3-cd)pyrene	ND		"	3.05	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
78-59-1	Isophorone	ND		"	3.58	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
91-20-3	Naphthalene	ND		"	4.29	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
98-95-3	Nitrobenzene	ND		"	2.18	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
62-75-9	N-Nitrosodimethylamine	ND		"	3.45	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
621-64-7	N-nitroso-di-n-propylamine	ND		"	2.86	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
86-30-6	N-Nitrosodiphenylamine	ND		"	4.02	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
87-86-5	Pentachlorophenol	ND		"	4.18	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
85-01-8	Phenanthrene	ND		"	4.01	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
108-95-2	Phenol	ND		"	3.64	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
129-00-0	Pyrene	ND		"	2.63	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"
110-86-1	Pyridine	ND		"	3.54	5.56	"	"	02/18/2010 12:31	02/19/2010 02:46	"

YORK
ANALYTICAL LABORATORIES, INC.

Notes and Definitions

S-AC	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected but below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.
B	Analyte is found in the associated blank as well as in the sample.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 10B0508

Client Information		Report to:		Invoice To:		Client Project ID	Turn-Around Time		Report Type/Deliverables	
Company:	Ecosystems Strategies	SAME	X	SAME		SB09110	RUSH Same Day		Summary	X
Address:	24 Davis Avenue	Name:		Name:	Brenda Wells		RUSH Next Day		QA/QC Summary	
	Poughkeepsie, NY 12603	Company:		Company:	Ecosystems Strategies		RUSH Two Day		CT RCP Pkg	
Phone no.:	(845)452-1658	Address:		Address:		Purchase Order no.	RUSH Three Day		ASP A Pkg	
Contact Person	Emery Lawson						RUSH Four Day		ASP B Pkg	
E-mail Addr.:		E-mail:		E-mail			Standard (5-7 days)	X	Excel	X
FAX No.:	(845)-485-7083	Fax No.:		Fax No.:		Samples from: CT__NY__NJ__	OTHER		EDD	

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Emery Lawson
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color
624	Site Spec.	STARS	8081Pest	PP13	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS	SPLP or TCLP	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T
BTEX	Benzene	Acids Only	CT RCP	CT15	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Nassau Co.	PAH	App. IX	Total	TPH 418.1	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Suffolk Co.	TAGM	Site Spec.	Dissolved	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5
TAGM	Ketones	CT RCP	SPLP or TCLP	SPLP or TCLP	Air TO15	Part 360-Baseline	TOX	Phosphate	BOD28
CT RCP	Oxygenates	TCL list	TCLP Pest	Indiv. Metals	Air STARS	Part 360-Expanded Not Detected Scans	BTU/lb.	Tot. Phos.	COD
Arom.	TCLP list	TICs	TCLP Herb	Hg, Pb, As, Cd	Air VPH	Part 360-Expanded Full List	Aquatic Tox.	Oil&Grease	TSS
Halog.	524.2	App. IX	Chlordane	Cr, Ni, Be, Fe,	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids
App.IX	502.2	SPLP or TCLP	608 Pest	Se, Tl, Sb, Cu,	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list	5035	TCLP BNA	608 PCB	Na, Mn, Ag, etc.	Helium	TAGM	Silica	MBAS	TPH - IR

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-3	2/15/2010	GW	VOCs (8260 full), SVOCs (8270)	2, 40ml vials and Amber Liters
MW-10	2/15/2010	GW	VOCs (8260 full), SVOCs (8270)	2, 40ml vials and Amber Liters
MW-12	2/15/2010	GW	VOCs (8260 full), SVOCs (8270)	2, 40ml vials and Amber Liters
MW-13	2/15/2010	GW	VOCs (8260 full), SVOCs (8270)	2, 40ml vials and Amber Liters
MW-14	2/15/2010	GW	VOCs (8260 full), SVOCs (8270)	2, 40ml vials and Amber
RW-7	2/16/2010	Other - Free Product	SVOCs (Phthalates, USEPA 8270 Selected Ion Monitoring)	8 oz jar

Comments

Preservation "X" those applicable: COOL 4°C | HNO3 | H2SO4 | NaOH | NONE | FROZEN

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	2/17/10 3:05		2-17-10 1500
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
			2/17/10-1700

Temperature on Receipt 3.6 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

March 31, 2010

Emery Lawson, Project Manager
Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie, NY 12603

Dear Ms. Lawson:

Included are the results from the testing of material submitted on February 25, 2010 from the 49 Dupont Street/SB09110, F&BI 002242 project. The product samples submitted for forensic evaluation arrived in good condition. Upon arrival, the samples RW-12 and MW-4 were placed in a refrigerator maintained at 4°C until removed for sample processing.

The samples RW-12 and MW-4 were diluted and analyzed for semivolatile organic compounds with library search using a gas chromatograph fitted with a mass spectrometer (GC/MS). The results of this testing are enclosed.

Review of the GC/MS results generated shows that the majority of material present in the samples RW-12 and MW-4 is consistent with carboxylic acid esters. Phthalates are in the class of compounds known as carboxylic acid esters.

In addition, review of the GC/MS results generated shows that the sample RW-12 also contains material which appears to be a high boiling petroleum based oil. Selective ion monitoring was performed on this sample to determine if this oil is paraffinic or naphthenic in nature. Review of the data generated shows that this sample contains a prominent pattern of material with a M/Z ratio of 43, 57, 71, and 85. These ions are consistent with paraffinic material.

Please contact us if additional consultation is needed by our firm in the interpretation of the analytical results provided. We appreciate this opportunity to be of service to you and hope you will call if you should have any questions. We will hold your samples for 30 days before disposal unless directed otherwise.

Sincerely,

FRIEDMAN & BRUYA, INC.

Bradley T. Benson
Chemist

Enclosures
mcp/BTB
NAA0331R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GC/MS Library Search Compound Report By EPA Method 8270D

Client Sample ID:	RW-12	Client:	Ecosystems Strategies, Inc.
Date Received:	02/25/10	Project:	49 Dupont Street, F&BI 002242
Date Extracted:	03/02/10	Lab ID:	002242-01 1/100
Date Analyzed:	03/02/10	Data File:	030213.D
Matrix:	Product	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Tentative ID	CAS #	Qual.	Conc.
1,2-Benzenedicarboxylic acid, decyl hexyl ester	025724-58-7	64	26,000
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	001330-96-7	64	25,000
1,2-Benzenedicarboxylic acid, diisononyl ester	028553-12-0	64	24,000
1,2-Benzenedicarboxylic acid, bis(4-methylpentyl) ester	000146-50-9	64	20,000
Bis(2-ethylhexyl) phthalate	000117-81-7	53	15,000
1,2-Benzenedicarboxylic acid, butyl 8-methylnonyl ester	000089-18-9	64	14,000
Cyclopropanenonanoic acid, 2-[(2-butylcyclopropyl)methyl]-, methyl ester	010152-69-9	95	12,000
1,2-Benzenedicarboxylic acid, diisononyl ester	028553-12-0	72	11,000
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	001330-96-7	59	7,900
1,2-Benzenedicarboxylic acid, bis(1-methylheptyl) ester	000131-15-7	59	6,300
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	001330-96-7	72	5,700
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	001330-96-7	64	5,000
1,2-Benzenedicarboxylic acid, diisooctyl ester	027554-26-3	50	4,700
1,2-Benzenedicarboxylic acid, bis(8-methylnonyl) ester	000089-16-7	59	4,300

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GC/MS Library Search Compound Report By EPA Method 8270D

Client Sample ID:	MW-4	Client:	Ecosystems Strategies, Inc.
Date Received:	02/25/10	Project:	49 Dupont Street, F&BI 002242
Date Extracted:	03/02/10	Lab ID:	002242-02 1/100
Date Analyzed:	03/02/10	Data File:	030214.D
Matrix:	Product	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

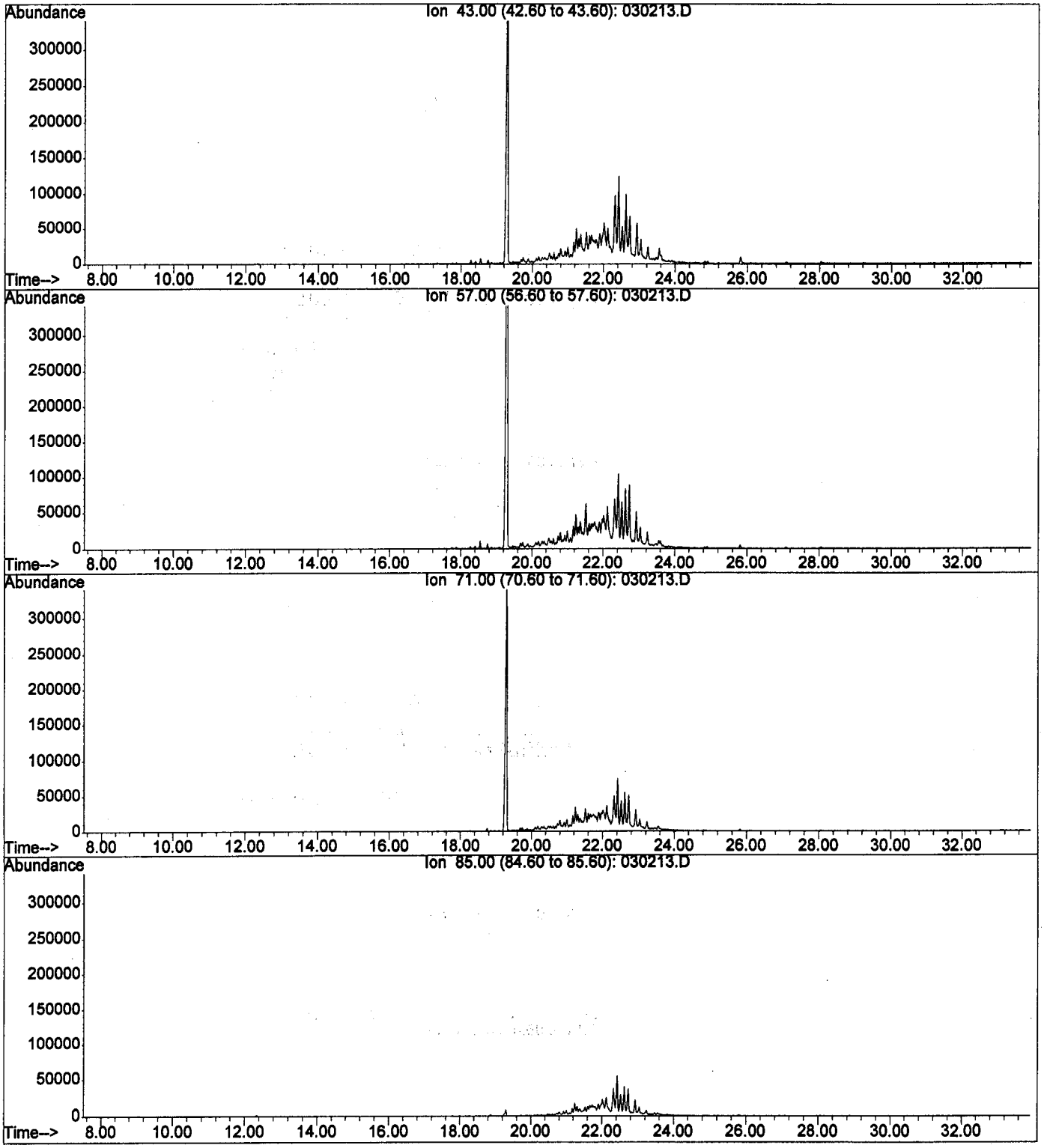
Tentative ID	CAS #	Qual.	Conc.
Hexanedioic acid, mono(2-ethylhexyl) ester	004337-65-9	64	96,000
Phosphoric acid, tris(2-ethylhexyl) ester	000078-42-2	72	63,000
1,2-Benzenedicarboxylic acid, bis(1-methylheptyl) ester	000131-15-7	80	43,000
Cyclopropanenonanoic acid, 2-[(2-butylcyclopropyl)methyl]-, methyl ester	010152-69-9	59	40,000
1,2-Benzenedicarboxylic acid, diheptyl ester	003648-21-3	78	37,000
1,2-Benzenedicarboxylic acid, bis(4-methylpentyl) ester	000146-50-9	50	26,000
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	001330-96-7	72	25,000
1,2-Benzenedicarboxylic acid, diheptyl ester	003648-21-3	86	15,000
1,2-Benzenedicarboxylic acid, isode isodecyl octyl ester	001330-96-7	78	11,000
1,2-Benzenedicarboxylic acid, butyl octyl ester	000084-78-6	64	10,000
1,2-Benzenedicarboxylic acid, bis(4-methylpentyl) ester	000146-50-9	64	9,900
1,2-Benzenedicarboxylic acid, decyl octyl ester	000119-07-3	72	9,300
1,2-Benzenedicarboxylic acid, bis(1-methylheptyl) ester	000131-15-7	72	9,200
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	001330-96-7	72	6,800
1,2-Benzenedicarboxylic acid, diheptyl ester	003648-21-3	78	4,400

Analysis For Semivolatile Compounds By EPA Method 8270D

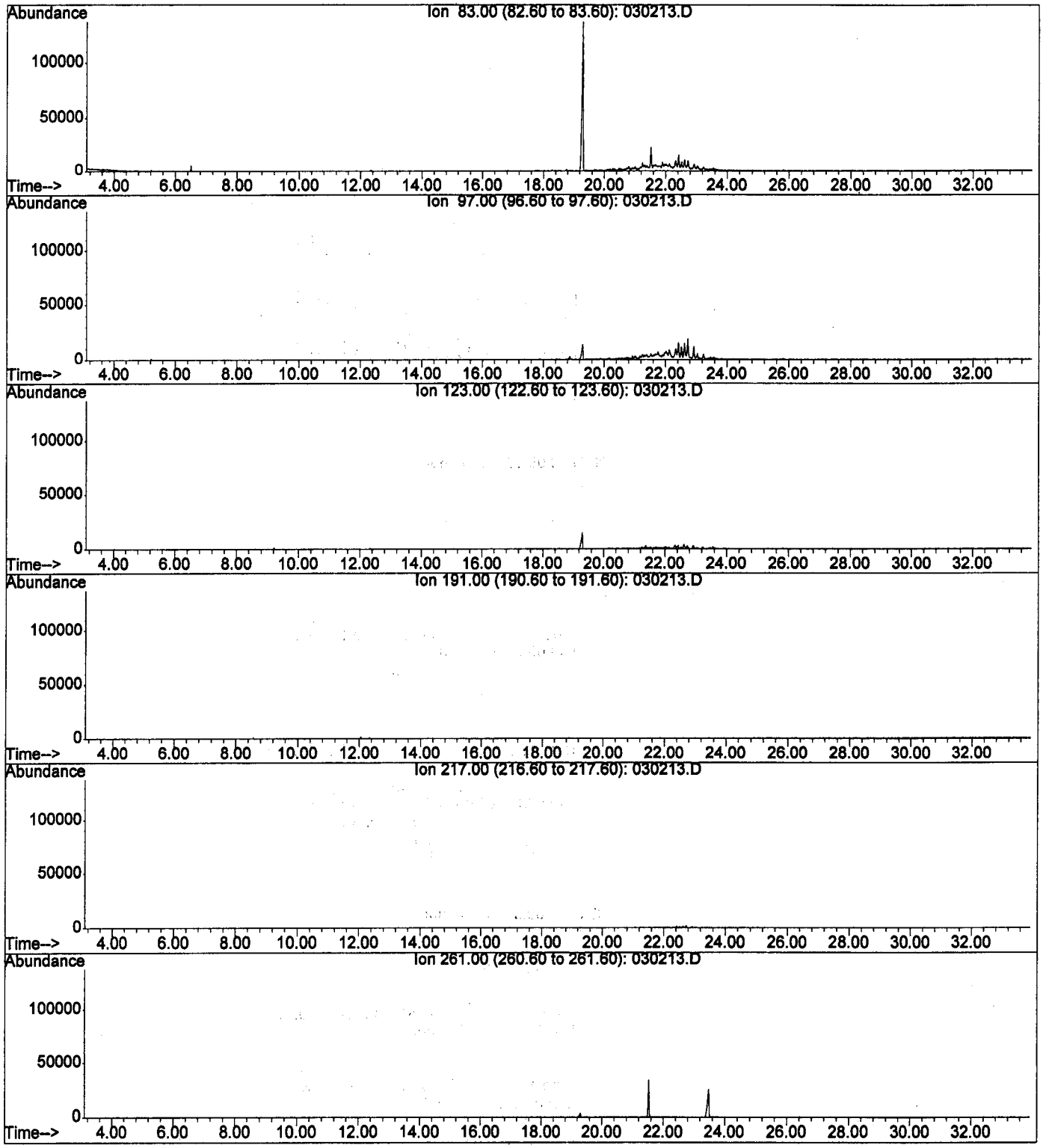
Client Sample ID:	Method Blank	Client:	Ecosystems Strategies, Inc.
Date Received:	Not Applicable	Project:	49 Dupont Street, F&BI 002242
Date Extracted:	03/02/10	Lab ID:	00293mb
Date Analyzed:	03/02/10	Data File:	030210.D
Matrix:	Product	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Note: There were no library search compounds detected.

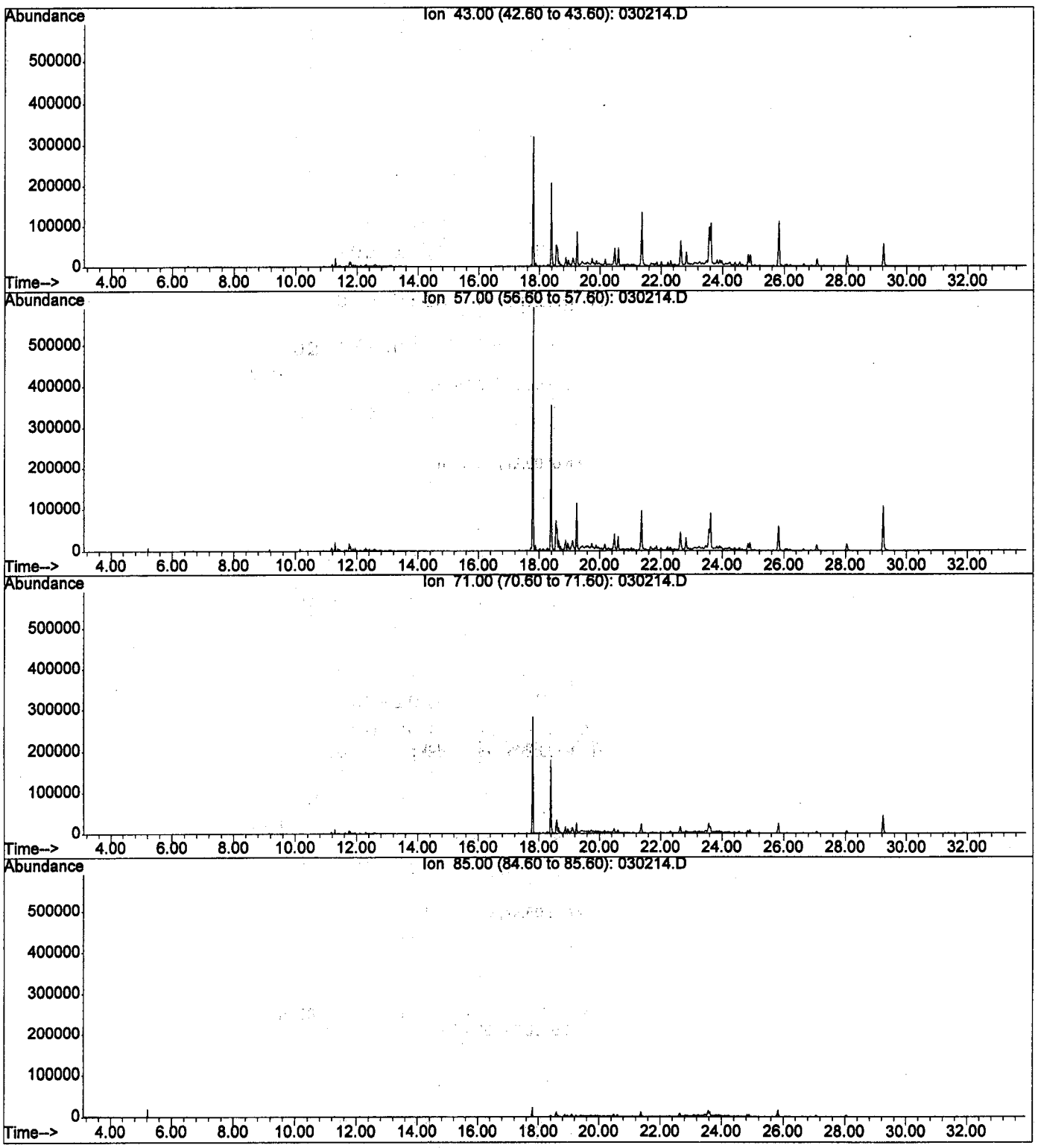
File : D:\DATA\03-02-10\030213.D
Operator : YA
Acquired : 2 Mar 2010 7:07 pm using AcqMethod 0222BNA
Instrument : GCMS3
Sample Name: 002242-01 1/100
Misc Info : product
Vial Number: 10



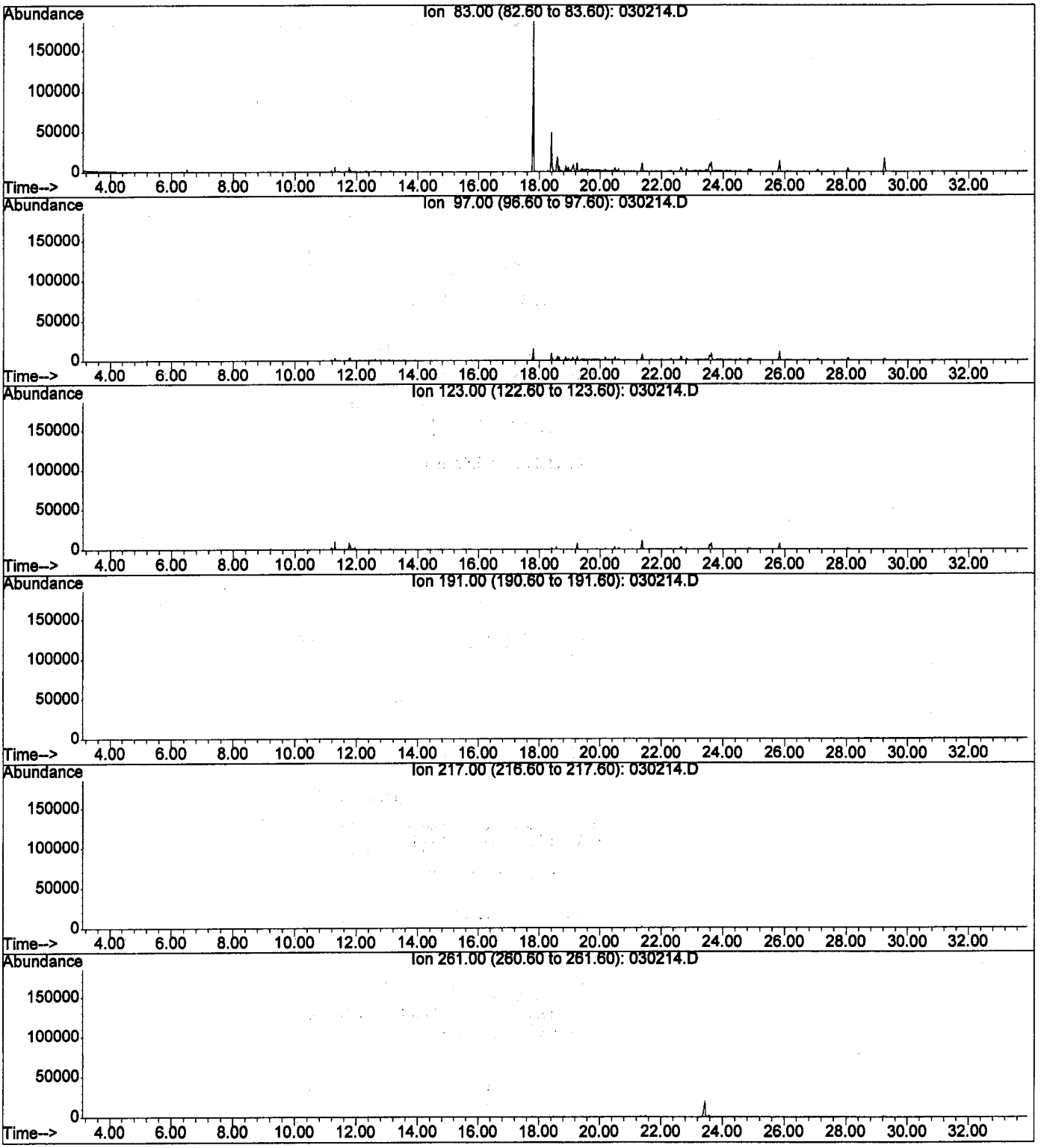
File : D:\DATA\03-02-10\030213.D
Operator : YA
Acquired : 2 Mar 2010 7:07 pm using AcqMethod 0222BNA
Instrument : GCMS3
Sample Name: 002242-01 1/100
Misc Info : product
Vial Number: 10



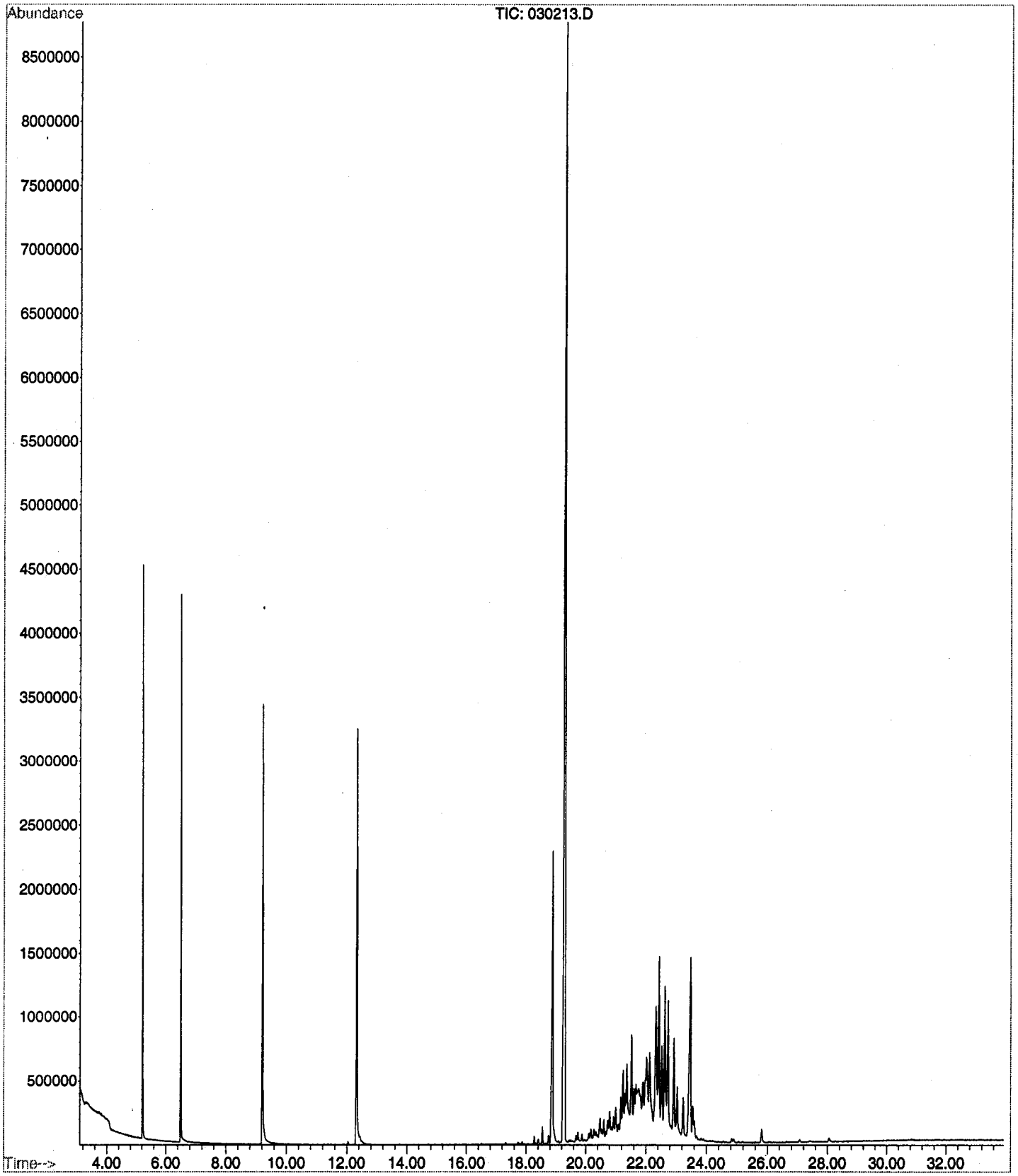
File : D:\DATA\03-02-10\030214.D
Operator : YA
Acquired : 2 Mar 2010 7:48 pm using AcqMethod 0222BNA
Instrument : GCMS3
Sample Name: 002242-02 1/100
Misc Info : product
Vial Number: 11



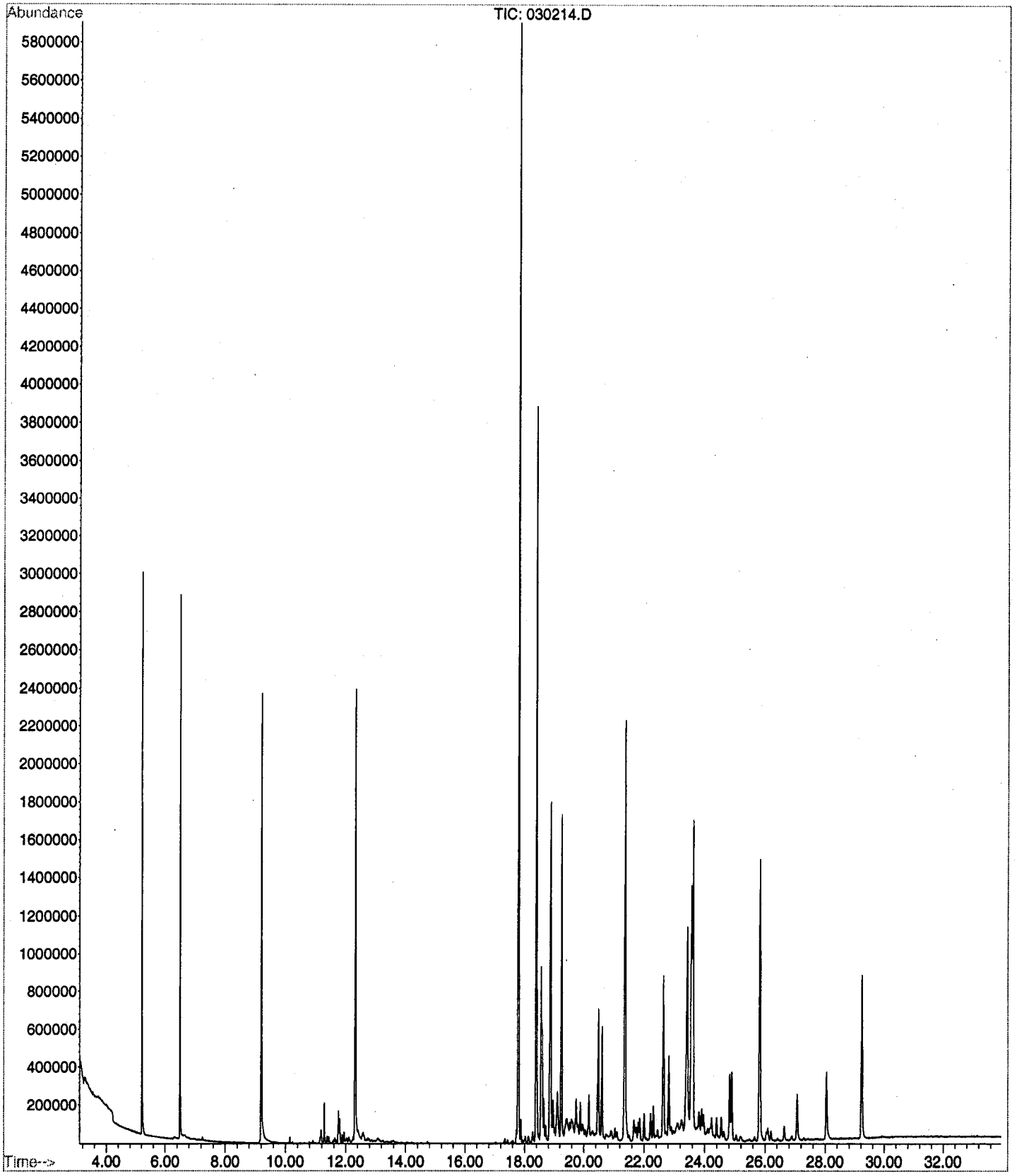
File : D:\DATA\03-02-10\030214.D
Operator : YA
Acquired : 2 Mar 2010 7:48 pm using AcqMethod 0222BNA
Instrument : GCMS3
Sample Name: 002242-02 1/100
Misc Info : product
Vial Number: 11



File : F:\DATA\03-02-10\030213.D
Operator : YA
Acquired : 2 Mar 2010 7:07 pm using AcqMethod 0222BNA
Instrument : GCMS3
Sample Name: 002242-01 1/100
Misc Info : product
Vial Number: 10



File : F:\DATA\03-02-10\030214.D
Operator : YA
Acquired : 2 Mar 2010 7:48 pm using AcqMethod 0222BNA
Instrument : GCMS3
Sample Name: 002242-02 1/100
Misc Info : product
Vial Number: 11



002242

CHAIN OF CUSTODY

MP 02/25/10 D02

Send Report To

Company Ecosystems Strategies, Inc.

Address 24 Davis Avenue

City, State, ZIP Poughkeepsie, New York 12603

Phone # (845)452-1658 Fax # (845)-485-7083

SAMPLERS (signature)

PROJECT NAME/NO.: 49 Dupont Street / SB09110

PO #

REMARKS

TURNAROUND TIME
X Standard (2 Weeks)
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
X Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	PCBs Sample Point						Notes
RW-12	01	2/15/10	10:45	Free Product	1, 8oz							X						
MW-4	02	2/22/10	11:22	Free Product	1, 8oz							X						

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:				
Received by:	Nhan Phan	FeBI	2/25/10	1500
Relinquished by:				
Received by:		Samples received at 20 °C		

FORMS\COC\COC.DOC

APPENDIX F

Waste Disposal Documentation

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD001468354	1	516-816-4705	006325619 JJK

GENERATOR

5. Generator's Name and Mailing Address
Dynamit Nobel-Harte, Inc.
49 Dupont Street
Brooklyn, NY 11222
Generator's Phone: 631-586-6000

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Metro Environmental Contracting Corp.
U.S. EPA ID Number: NYR000134957

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Norlite Corporation
628 South Saratoga Street
Cohoes, NY 12047
Facility's Phone: 518-235-0401
U.S. EPA ID Number: NYD050469935

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. Waste Toxic Liquids, Organic, N.O.S., 6.1, UN2810, PGII, (U028) (Bis(2-Ethylhexyl)Phthalate) ERG#153	01	TT	2608	G	U028		B
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9b. 1) Job ID# J112400107
75125 JW NY

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: X
Signature: X
Month / Day / Year

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Matthew S. Copeland	[signature]	12	03	09

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month / Day / Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name	Signature	Month	Day	Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD001488354
2. Page 1 of: 1
3. Emergency Response Phone: 516-076-7940
4. Manifest Tracking Number: 003404287 JJK

GENERATOR

5. Generator's Name and Mailing Address
49 Dupont Realty Corp
P.O. Box 788
Deer Park, NY 11729
Generator's Phone: 845-452-1658

Generator's Site Address (if different than mailing address)
49 Dupont St
Brooklyn, NY 11222

6. Transporter 1 Company Name: Miller Environmental Group, Inc.
U.S. EPA ID Number: NYD986900085

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Waste Connections
628 South Saratoga Street
Cohoes, NY 12047 USA
Facility's Phone: 518-234-0401-231

U.S. EPA ID Number: NYD080469935

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. Waste Toxic Liquids, Organic, N.O.S., 6.1, UN2810, PGIII (UO28)(Bis(2-Ethylhexyl)Phthalate) ERG162	1	TT	42750	G	UO28		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
M10-1030
Work Order J1228100082-101
TRUCK #4009 TRAILER DEER 11 AC 82429

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] | Signature: | Month | Day | Year

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: FELIPE SANTOS | Signature: Felipe Santos | Month: 01 | Day: 03 | Year: 11

Transporter 2 Printed/Typed Name: | Signature: | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD001459954
2. Page 1 of
3. Emergency Response Phone: 516-676-7340
4. Manifest Tracking Number: 003404236 JJK

5. Generator's Name and Mailing Address
49 Dupont Realty Corp
PO Box 796
Deer park, NY 11729
Generator's Phone: 516-676-1000

Generator's Site Address (if different than mailing address)
49 Dupont St
Brooklyn, NY 11222

6. Transporter 1 Company Name: Miller Environmental Group, Inc.
U.S. EPA ID Number: NYD986000095

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Noritte Corporation
526 South Saratoga Street
Cohoes, NY 12047 USA
Facility's Phone: 518-234-0401-231

U.S. EPA ID Number: NYD080459935

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. Waste Toxic Liquids, Organic, N.O.S., 6.1, UN2810, PGIII(UO28)(Bis(2-Ethylhexyl)Phthalate) ERG152	1	TT	1100	G	U028		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
M11-0494
Approval/ Work order# J062211003J-101

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DANIEL OTLAN | Signature | Month | Day | Year
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. | 2. | 3. | 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD001453354
2. Page 1 of: 1
3. Emergency Response Phone: 516-876-7040
4. Manifest Tracking Number: 003404189 JJK

5. Generator's Name and Mailing Address
49 Dupont Realty Corp
PO Box 786
Deer Park, NY 11729
Generator's Phone: 646-462-1655

Generator's Site Address (if different than mailing address)
49 Dupont St
Brooklyn, NY 11222

6. Transporter 1 Company Name: Miller Environmental Group, Inc.
U.S. EPA ID Number: NYD[illegible]

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Noritis Corporation
626 South Saratoga Street
Cohoes, NY 12047 USA
Facility's Phone: 518-234-0401-231

U.S. EPA ID Number: NYD060489935

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. Waste Toxic Liquids, Organic, N.O.S., 6.1,UN2810, PGIII(U028)(Bis(2-Ethylhexyl)Phthalate) ERG153	1	TT	231	G	U028		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
M11-0797
Approval/ Work order# JC928110120-101

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: R. Hooker
Signature: [signature]
Month 10 Day 5 Year 11

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Joel Crespo
Signature: [signature]
Month 10 Day 5 Year 11
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD001485364
2. Page 1 of
3. Emergency Response Phone: 516-935-7340
4. Manifest Tracking Number: 003404174 JJK

5. Generator's Name and Mailing Address
49 Dupont Realty Corp
PO Box 785
Deer Park, NY 11729
Generator's Phone: [illegible]

Generator's Site Address (if different than mailing address)
49 Dupont St
Brooklyn, NY 11222

6. Transporter 1 Company Name: Miller Environmental Group, Inc.
U.S. EPA ID Number: NYD986924088

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Noflite Corporation
628 South Saratoga Street
Cohoes, NY 12047 USA
Facility's Phone: 518-234-0401-231
U.S. EPA ID Number: NYD080469935

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. Waste Toxic Liquids, Organic, N.O.S., 6.1,UN2810, PG(III)(UC09)(Bis(2-Ethylhexyl)Phthalate) ERG152	1	TT	579	G	U028		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
M11-1012
Approval/ Work order# J1208110063-101

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month 12 Day 13 Year 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Joel Crespo Signature: [illegible] Month 12 Day 13 Year 11
Transporter 2 Printed/Typed Name: Signature: Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name Signature Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

630906

1472943

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD001786554

2. Page 1 of 1

3. Emergency Response Phone: 516-876-7940

4. Waste Tracking Number: MW 0005069

5. Generator's Name and Mailing Address
48 Dupont Realty Corp
PO Box 735
Deer Park, NY 11729

Generator's Site Address (if different than mailing address)
48 Dupont St
Brooklyn, NY 11222

Generator's Phone: 845-452-1656

6. Transporter 1 Company Name: Miller Environmental Group INC
U.S. EPA ID Number: NYD988905085

7. Transporter 2 Company Name: Republic Env Sys (Trans Group) LLC ~~Chemical Collection Control LLC of NJ~~
U.S. EPA ID Number: PAD982661381 ~~NJD982982429~~

8. Designated Facility Name and Site Address
P&C - Northland Environmental, LLC
275 Allens Avenue
Providence, RI 02905 USA
U.S. EPA ID Number: RID000958352

Facility's Phone: 401-781-6340

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON RCRA/DOT Regulated Solid(non oil/liquid), none, none	5	DM	2000	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Drums delivered to 48 Drexel Drive, Bay Shore New York 11706
M12-0313
536108-00
Plate #87694 JU

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Adam Cimino
Signature:
Month 4 Day 19 Year 2012

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tom Cameron
Signature:
Month 4 Day 19 Year 12

Transporter 2 Printed/Typed Name: ~~Fred Smith~~ Fred Miranda
Signature: ~~Fred Smith~~
Month 4 Day 20 Year 12

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

~~TRANSPORTER 3~~ ~~REPUBLIC ENV SYS (TRANS GROUP) LLC~~ ~~PAD982661381~~

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD001453354
2. Page 1 of: 1
3. Emergency Response Phone: 516-876-7940
4. Manifest Tracking Number: 003404124 JJK

5. Generator's Name and Mailing Address
49 Dupont Realty Corp
PO Box 755
Deer Park, NY 11729
Generator's Phone: 845-452-1656

Generator's Site Address (if different than mailing address)
49 Dupont St
Brooklyn, NY 11222

6. Transporter 1 Company Name: Miller Environmental Group INC
U.S. EPA ID Number: NYD986908085

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Norlite Corporation
628 South Saratoga Street
Cohoes, NY 12047
Facility's Phone: 518-234-0401
U.S. EPA ID Number: NYD090469935

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. Waste Toxic Liquids,Organic,N.O.S., 6.1,UN 2810,PG II(UC28)(Bis(2-Ethylhexyl)Phthalate) ERG152	1	TT	730	G	UC28
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
M12-0313
J0416120091-101
Rec'd 749 gal @ 5 Stops w/ [illegible] @ 9:44 [illegible]

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Alex Dickson of Equipment Transport
Signature:
Month 4 Day 25 Year 12

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Joel Corpo
Signature:
Month 4 Day 25 Year 12

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H050			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Douglas Czarnec
Signature:
Month 4 Day 25 Year 12

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 205

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD001456354
2. Page 1 of: 1
3. Emergency Response Phone: 516-876-7940
4. Manifest Tracking Number: 003404073 JJK

5. Generator's Name and Mailing Address
49 Dupont Realty Corp
PO Box 786
Deer Park, NY 11729

Generator's Site Address (if different than mailing address)
49 Dupont St
Brooklyn, NY 11222

Generator's Phone: 646-452-1555

6. Transporter 1 Company Name: Miller Environmental Group INC
U.S. EPA ID Number: NYD986606085

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Nortle Corporation
628 South Saratoga Street
Cohoes, NY 12047

U.S. EPA ID Number: NYD000459935

Facility's Phone: 518-234-0401

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. Waste Toxic Liquids,Organic,N.O.S., 6.1,UN 2810,PG III(U028)(Bis(2-Ethylhexyl)Phthalate) ERG152	1	TT	650	G	U028		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
M12-0593
X073112000194-101

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Cimarusti
Signature
Month / Day / Year

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Joel Crespo
Signature
Month 8 / Day 6 / Year 12

Transporter 2 Printed/Typed Name
Signature
Month / Day / Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month / Day / Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month / Day / Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

1345 gal

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD001456354	1	516-676-7940	000346568 JJK

5. Generator's Name and Mailing Address
49 Dupont Realty Corp
PO Box 785
Deer Park, NY 11729

Generator's Site Address (if different than mailing address)
49 Dupont St
Brooklyn, NY 11222

Generator's Phone: 646-452-1625

6. Transporter 1 Company Name: Miller Environmental Group INC
U.S. EPA ID Number: NYD986905065

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Noville, LLC
528 South Saratoga Street
Cohoes, NY 12047
U.S. EPA ID Number: NYD080469035

Facility's Phone: 518-234-0401

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. Waste Toxic Liquids,Organic,N.O.S., 6.1,UN 2810,PG II(UO28)(Bis(2-Ethylhexyl)Phthalate) ERG152	1	TT	1345	G	U028		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
M13-0026
J011013011B-101
Truck #59 plate 12898 PC

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible] | Signature: [illegible] | Month: 1 | Day: 16 | Year: 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tommy Cebrele | Signature: [illegible] | Month: 1 | Day: 16 | Year: 13

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) | Month | Day | Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD001468354
2. Page 1 of 1
3. Emergency Response Phone: 516-876-7940
4. Manifest Tracking Number: 000346674 JJK

5. Generator's Name and Mailing Address
49 Dupont Realty Corp
PO Box 785
Deer Park, NY 11729
Generator's Phone: 645-452-1655

Generator's Site Address (if different than mailing address)
49 Dupont St
Brooklyn, NY 11222

6. Transporter 1 Company Name: Miller Environmental Group INC
U.S. EPA ID Number: NYD986908085

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Norlite, LLC
628 South Saratoga Street
Cohoes, NY 12047
Facility's Phone: 518-234-0401
U.S. EPA ID Number: NYD080469935

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. Waste Toxic Liquids,Organic,N.O.S., 6.1,UN 2810,PG II(UO28)(Bis(2-Ethylhexyl)Phthalate) ERG152	1	TT	1002	G	UO28
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Rec'D 993gals/8000lbs
sp.0.9664/ml
M13-0779
J0816130069-101
Truck #501 Plate# 12569 PC

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Scott Spitzer
Signature
Month 8 Day 22 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tommy Capuda
Signature
Month 8 Day 22 Year 13
Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H050 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month 08 Day 22 Year 13

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYD001458354
2. Page 1 of
3. Emergency Response Phone: 516-876-7940
4. Manifest Tracking Number: 000346735 JJK

5. Generator's Name and Mailing Address: 49 Dupont Realty Corp, PO Box 785, Deer Park, NY 11729
Generator's Site Address (if different than mailing address): 49 Dupont St, Brooklyn, NY 11222
Generator's Phone: 646-452-1655

6. Transporter 1 Company Name: Miller Environmental Group INC
U.S. EPA ID Number: NYD986906085

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Nortte, LLC, 528 South Saratoga Street, Cohoes, NY 12047
U.S. EPA ID Number: NYD080459935
Facility's Phone: 518-234-0401

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Waste Toxic Liquids, Organic, N.O.S. 6.1, UN2810, PG#(UO28)(Bis(2-ethylhexyl)Phthalate) ERG152	1	TT	679	G	U028
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
TRUCK # 591
M14-0315
Approval Work Order # 3941 [illegible]

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ecosystems Strategy Spitz
Signature:
Month: 4 Day: 22 Year: 14

GENERATOR

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ray Long
Signature:
Month: 4 Day: 22 Year: 14
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

APPENDIX G

CAMP Results

APPENDIX H

Product Identification Reports

Test 001

Instrument		Data Properties	
Model	DustTrak DRX	Start Date	09/22/2014
Instrument S/N	8533123101	Start Time	10:07:55
		Stop Date	09/22/2014
		Stop Time	15:07:55
		Total Time	0:05:00:00
		Logging Interval	900 seconds

Test Data							
Data Point	**Date**	**Time**	**PM1 mg/m^3**	**PM2.5 mg/m^3**	**RESP mg/m^3**	**PM10 mg/m^3**	**TOTAL mg/m^3**
1	09/22/2014	10:22:55	0.003	0.004	0.004	0.005	0.005
2	09/22/2014	10:37:55	0.004	0.005	0.005	0.006	0.006
3	09/22/2014	10:52:55	0.025	0.027	0.028	0.031	0.031
4	09/22/2014	11:07:55	0.011	0.012	0.012	0.013	0.013
5	09/22/2014	11:22:55	0.037	0.039	0.041	0.045	0.046
6	09/22/2014	11:37:55	0.016	0.016	0.017	0.018	0.018
7	09/22/2014	11:52:55	0.007	0.007	0.007	0.008	0.008
8	09/22/2014	12:07:55	0.008	0.009	0.009	0.011	0.011
9	09/22/2014	12:22:55	0.040	0.041	0.042	0.044	0.045
10	09/22/2014	12:37:55	0.028	0.028	0.029	0.030	0.030
11	09/22/2014	12:52:55	0.068	0.070	0.071	0.073	0.073
12	09/22/2014	13:07:55	0.013	0.013	0.014	0.015	0.015
13	09/22/2014	13:22:55	0.000	0.000	0.000	0.000	0.000
14	09/22/2014	13:37:55	0.000	0.000	0.000	0.001	0.001
15	09/22/2014	13:52:55	0.000	0.001	0.001	0.001	0.002
16	09/22/2014	14:07:55	0.000	0.001	0.001	0.002	0.002
17	09/22/2014	14:22:55	0.023	0.024	0.025	0.027	0.027
18	09/22/2014	14:37:55	0.007	0.007	0.008	0.010	0.010
19	09/22/2014	14:52:55	0.003	0.004	0.004	0.004	0.004
20	09/22/2014	15:07:55	0.003	0.003	0.005	0.007	0.007

Test 002

Instrument		Data Properties	
Model	DustTrak DRX	Start Date	09/23/2014
Instrument S/N	8533123101	Start Time	08:43:42
		Stop Date	09/23/2014
		Stop Time	10:13:42
		Total Time	0:01:30:00
		Logging Interval	900 seconds

Test Data							
Data Point	**Date**	**Time**	**PM1 mg/m^3**	**PM2.5 mg/m^3**	**RESP mg/m^3**	**PM10 mg/m^3**	**TOTAL mg/m^3**
1	09/23/2014	08:58:42	0.030	0.031	0.031	0.033	0.033
2	09/23/2014	09:13:42	0.018	0.018	0.019	0.019	0.019
3	09/23/2014	09:28:42	0.015	0.016	0.016	0.017	0.017
4	09/23/2014	09:43:42	0.057	0.065	0.074	0.085	0.086
5	09/23/2014	09:58:42	0.022	0.022	0.023	0.024	0.024
6	09/23/2014	10:13:42	0.030	0.031	0.032	0.033	0.033

Test 003

Instrument		Data Properties	
Model	DustTrak DRX	Start Date	09/23/2014
Instrument S/N	8533123101	Start Time	11:31:47
		Stop Date	09/23/2014
		Stop Time	12:31:47
		Total Time	0:01:00:00
		Logging Interval	900 seconds

Test Data

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
1	09/23/2014	11:46:47	0.015	0.016	0.016	0.017	0.017
2	09/23/2014	12:01:47	0.065	0.067	0.069	0.072	0.073
3	09/23/2014	12:16:47	0.038	0.039	0.040	0.041	0.041
4	09/23/2014	12:31:47	0.039	0.039	0.040	0.040	0.041

Test 004

Instrument		Data Properties	
Model	DustTrak DRX	Start Date	09/23/2014
Instrument S/N	8533123101	Start Time	13:03:17
		Stop Date	09/23/2014
		Stop Time	14:18:17
		Total Time	0:01:15:00
		Logging Interval	900 seconds

Test Data

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
1	09/23/2014	13:18:17	0.520	0.609	0.701	0.834	0.843
2	09/23/2014	13:33:17	0.078	0.080	0.083	0.087	0.087
3	09/23/2014	13:48:17	0.058	0.060	0.061	0.063	0.064
4	09/23/2014	14:03:17	0.055	0.056	0.057	0.059	0.059
5	09/23/2014	14:18:17	0.039	0.041	0.042	0.045	0.045

Test 005

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/10/2014
Instrument S/N	8530121421	Start Time	09:59:01
		Stop Date	12/10/2014
		Stop Time	12:44:01
		Total Time	0:02:45:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	12/10/2014	10:14:01	0.029
2	12/10/2014	10:29:01	0.009
3	12/10/2014	10:44:01	0.037
4	12/10/2014	10:59:01	0.006
5	12/10/2014	11:14:01	0.006
6	12/10/2014	11:29:01	0.004
7	12/10/2014	11:44:01	0.006
8	12/10/2014	11:59:01	0.006
9	12/10/2014	12:14:01	0.010
10	12/10/2014	12:29:01	0.007
11	12/10/2014	12:44:01	0.009

Test 005

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/10/2014
Instrument S/N	8530143310	Start Time	09:51:16
		Stop Date	12/10/2014
		Stop Time	12:51:16
		Total Time	0:03:00:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	12/10/2014	10:06:16	0.011
2	12/10/2014	10:21:16	0.006
3	12/10/2014	10:36:16	0.016
4	12/10/2014	10:51:16	0.013
5	12/10/2014	11:06:16	0.005
6	12/10/2014	11:21:16	0.006
7	12/10/2014	11:36:16	0.008
8	12/10/2014	11:51:16	0.008
9	12/10/2014	12:06:16	0.008
10	12/10/2014	12:21:16	0.015
11	12/10/2014	12:36:16	0.010
12	12/10/2014	12:51:16	0.012

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

March 31, 2010

Emery Lawson, Project Manager
Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie, NY 12603

Dear Ms. Lawson:

Included are the results from the testing of material submitted on February 25, 2010 from the 49 Dupont Street/SB09110, F&BI 002242 project. The product samples submitted for forensic evaluation arrived in good condition. Upon arrival, the samples RW-12 and MW-4 were placed in a refrigerator maintained at 4°C until removed for sample processing.

The samples RW-12 and MW-4 were diluted and analyzed for semivolatile organic compounds with library search using a gas chromatograph fitted with a mass spectrometer (GC/MS). The results of this testing are enclosed.

Review of the GC/MS results generated shows that the majority of material present in the samples RW-12 and MW-4 is consistent with carboxylic acid esters. Phthalates are in the class of compounds known as carboxylic acid esters.

In addition, review of the GC/MS results generated shows that the sample RW-12 also contains material which appears to be a high boiling petroleum based oil. Selective ion monitoring was performed on this sample to determine if this oil is paraffinic or naphthenic in nature. Review of the data generated shows that this sample contains a prominent pattern of material with a M/Z ratio of 43, 57, 71, and 85. These ions are consistent with paraffinic material.

Please contact us if additional consultation is needed by our firm in the interpretation of the analytical results provided. We appreciate this opportunity to be of service to you and hope you will call if you should have any questions. We will hold your samples for 30 days before disposal unless directed otherwise.

Sincerely,

FRIEDMAN & BRUYA, INC.

Bradley T. Benson
Chemist

Enclosures
mcp/BTB
NAA0331R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GC/MS Library Search Compound Report By EPA Method 8270D

Client Sample ID:	RW-12	Client:	Ecosystems Strategies, Inc.
Date Received:	02/25/10	Project:	49 Dupont Street, F&BI 002242
Date Extracted:	03/02/10	Lab ID:	002242-01 1/100
Date Analyzed:	03/02/10	Data File:	030213.D
Matrix:	Product	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Tentative ID	CAS #	Qual.	Conc.
1,2-Benzenedicarboxylic acid, decyl hexyl ester	025724-58-7	64	26,000
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	001330-96-7	64	25,000
1,2-Benzenedicarboxylic acid, diisononyl ester	028553-12-0	64	24,000
1,2-Benzenedicarboxylic acid, bis(4-methylpentyl) ester	000146-50-9	64	20,000
Bis(2-ethylhexyl) phthalate	000117-81-7	53	15,000
1,2-Benzenedicarboxylic acid, butyl 8-methylnonyl ester	000089-18-9	64	14,000
Cyclopropanenonanoic acid, 2-[(2-butylcyclopropyl)methyl]-, methyl ester	010152-69-9	95	12,000
1,2-Benzenedicarboxylic acid, diisononyl ester	028553-12-0	72	11,000
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	001330-96-7	59	7,900
1,2-Benzenedicarboxylic acid, bis(1-methylheptyl) ester	000131-15-7	59	6,300
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	001330-96-7	72	5,700
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	001330-96-7	64	5,000
1,2-Benzenedicarboxylic acid, diisooctyl ester	027554-26-3	50	4,700
1,2-Benzenedicarboxylic acid, bis(8-methylnonyl) ester	000089-16-7	59	4,300

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GC/MS Library Search Compound Report By EPA Method 8270D

Client Sample ID:	MW-4	Client:	Ecosystems Strategies, Inc.
Date Received:	02/25/10	Project:	49 Dupont Street, F&BI 002242
Date Extracted:	03/02/10	Lab ID:	002242-02 1/100
Date Analyzed:	03/02/10	Data File:	030214.D
Matrix:	Product	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

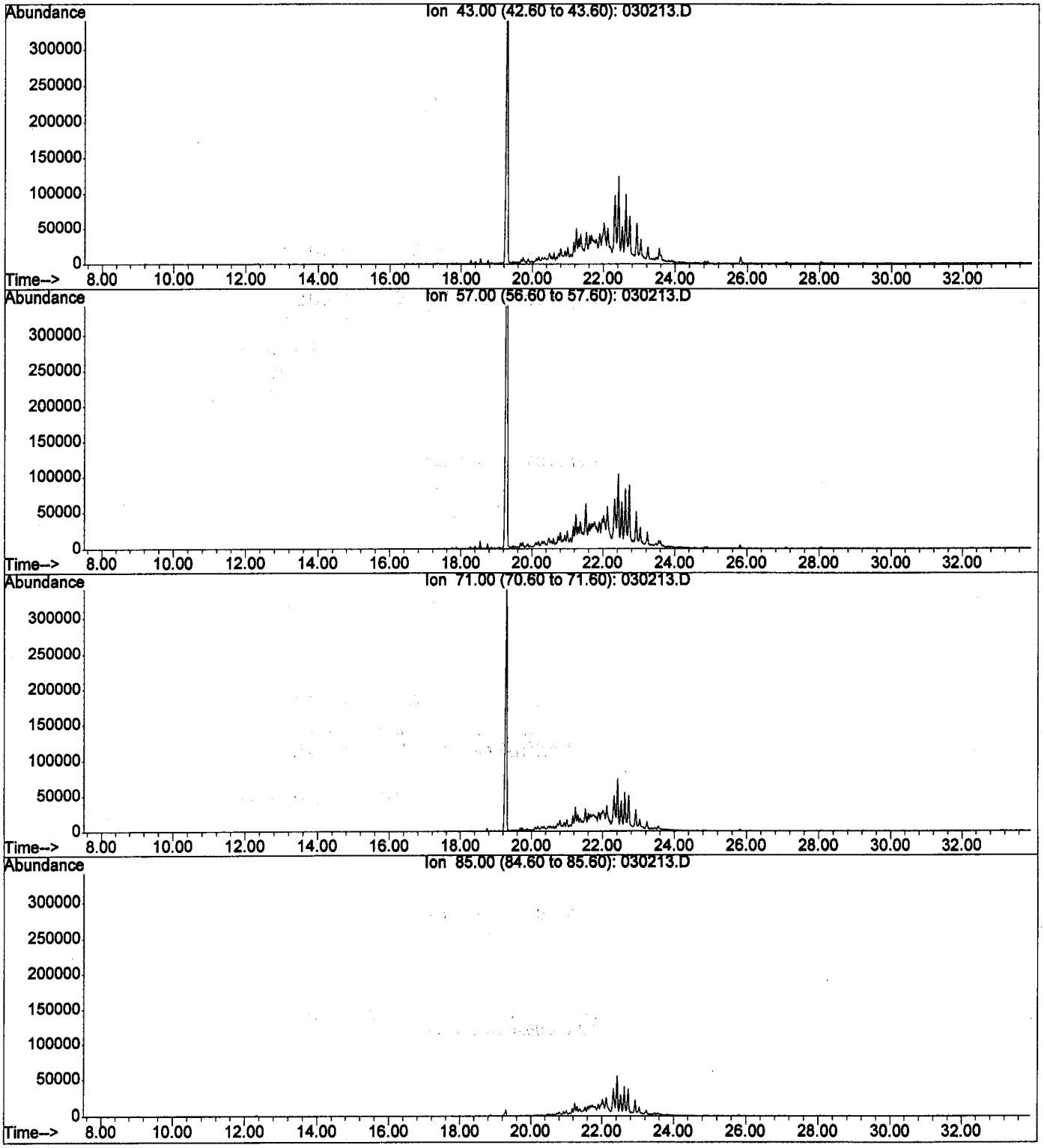
Tentative ID	CAS #	Qual.	Conc.
Hexanedioic acid, mono(2-ethylhexyl) ester	004337-65-9	64	96,000
Phosphoric acid, tris(2-ethylhexyl) ester	000078-42-2	72	63,000
1,2-Benzenedicarboxylic acid, bis(1-methylheptyl) ester	000131-15-7	80	43,000
Cyclopropanenonanoic acid, 2-[(2-butylcyclopropyl)methyl]-, methyl ester	010152-69-9	59	40,000
1,2-Benzenedicarboxylic acid, diheptyl ester	003648-21-3	78	37,000
1,2-Benzenedicarboxylic acid, bis(4-methylpentyl) ester	000146-50-9	50	26,000
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	001330-96-7	72	25,000
1,2-Benzenedicarboxylic acid, diheptyl ester	003648-21-3	86	15,000
1,2-Benzenedicarboxylic acid, isode isodecyl octyl ester	001330-96-7	78	11,000
1,2-Benzenedicarboxylic acid, butyl octyl ester	000084-78-6	64	10,000
1,2-Benzenedicarboxylic acid, bis(4-methylpentyl) ester	000146-50-9	64	9,900
1,2-Benzenedicarboxylic acid, decyl octyl ester	000119-07-3	72	9,300
1,2-Benzenedicarboxylic acid, bis(1-methylheptyl) ester	000131-15-7	72	9,200
1,2-Benzenedicarboxylic acid, isodecyl octyl ester	001330-96-7	72	6,800
1,2-Benzenedicarboxylic acid, diheptyl ester	003648-21-3	78	4,400

Analysis For Semivolatile Compounds By EPA Method 8270D

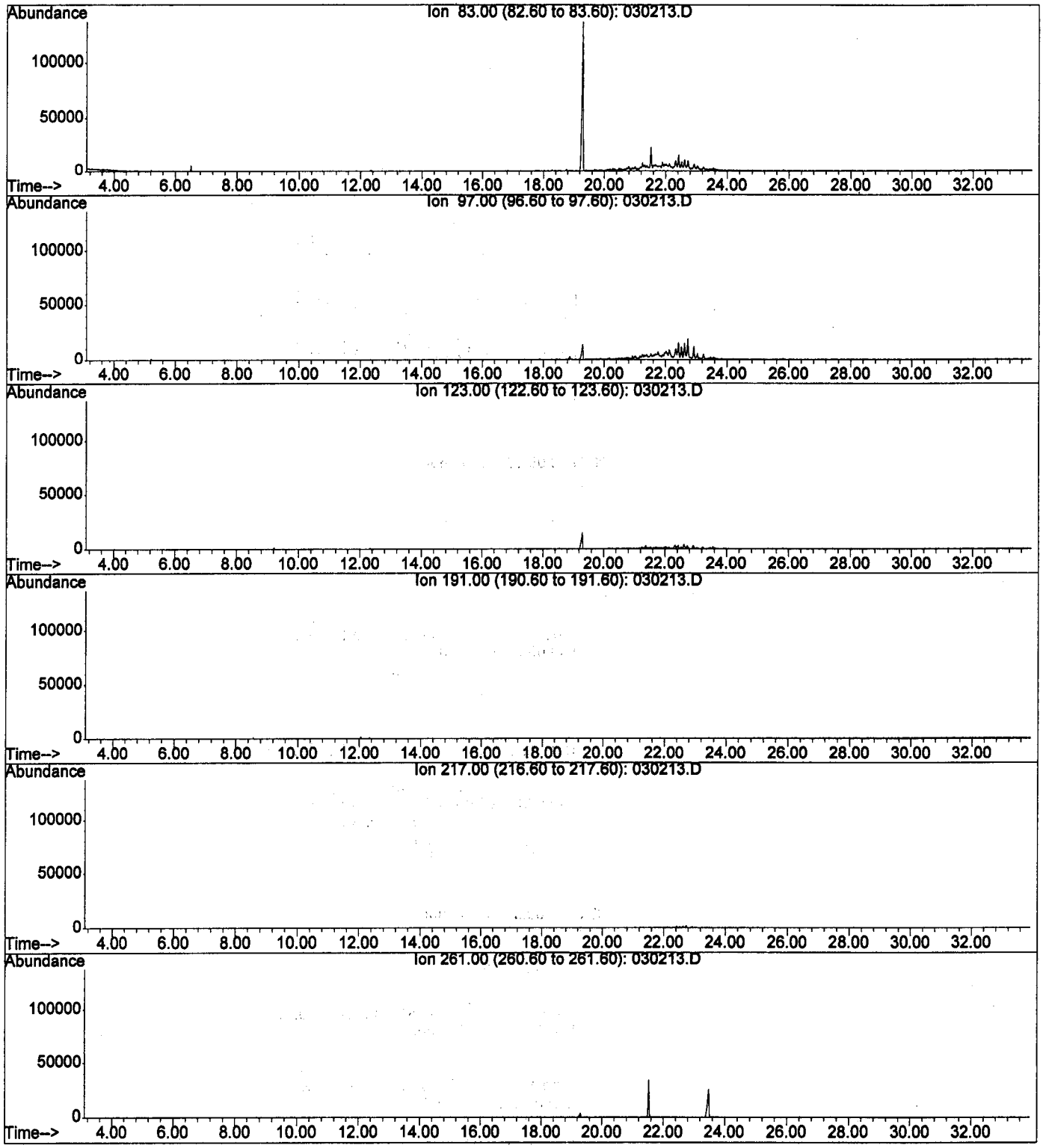
Client Sample ID:	Method Blank	Client:	Ecosystems Strategies, Inc.
Date Received:	Not Applicable	Project:	49 Dupont Street, F&BI 002242
Date Extracted:	03/02/10	Lab ID:	00293mb
Date Analyzed:	03/02/10	Data File:	030210.D
Matrix:	Product	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Note: There were no library search compounds detected.

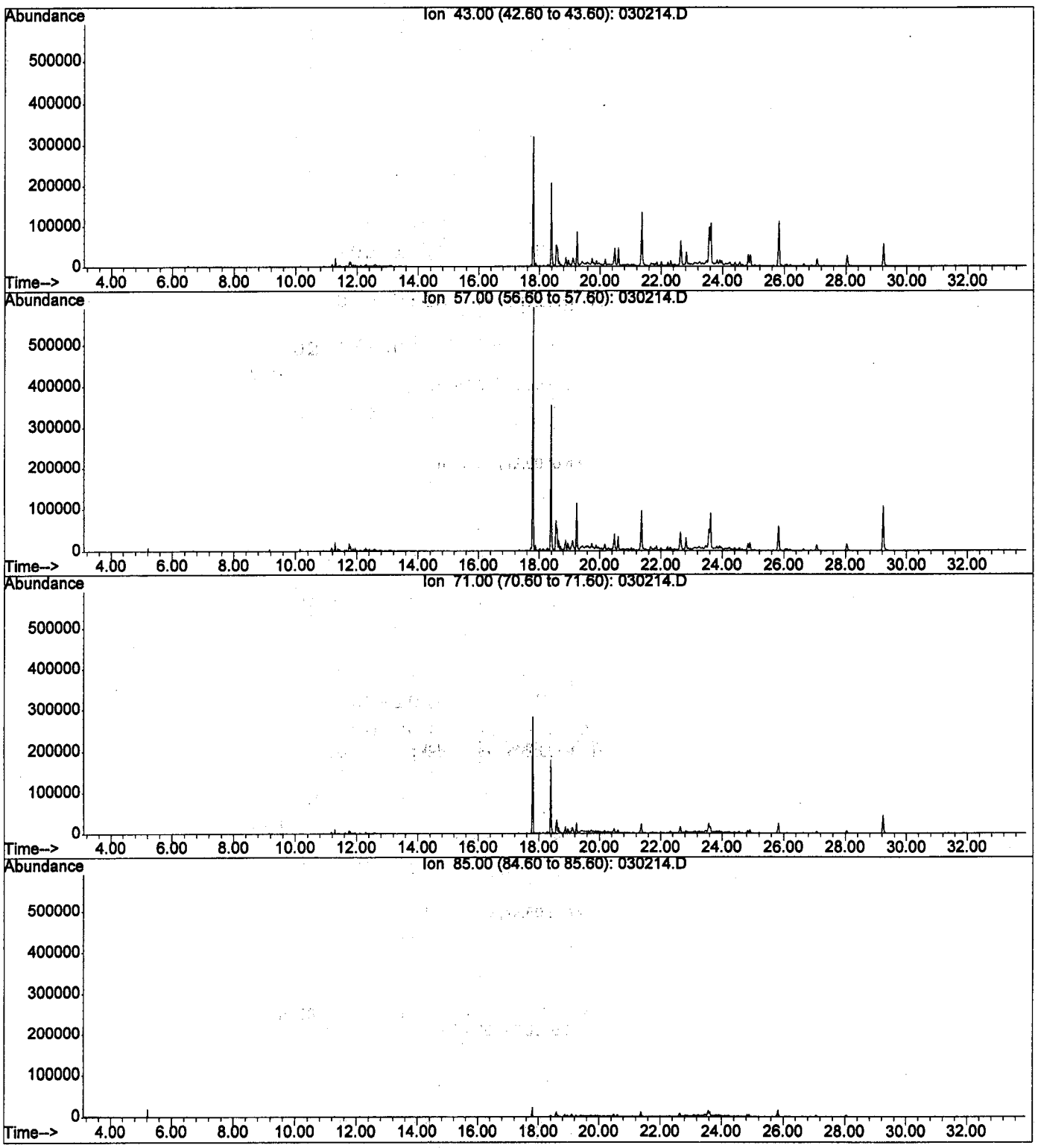
File : D:\DATA\03-02-10\030213.D
Operator : YA
Acquired : 2 Mar 2010 7:07 pm using AcqMethod 0222BNA
Instrument : GCMS3
Sample Name: 002242-01 1/100
Misc Info : product
Vial Number: 10



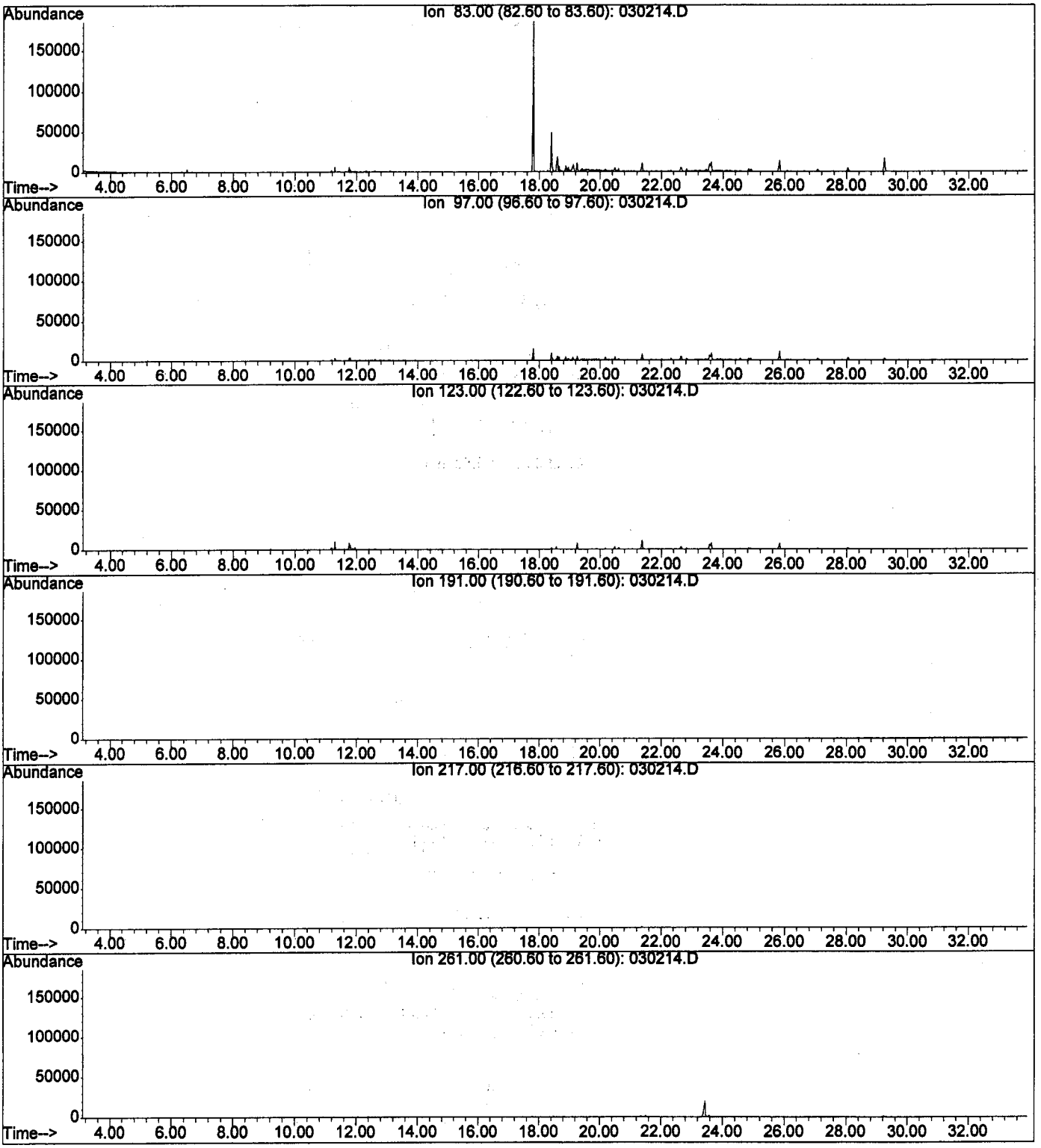
File : D:\DATA\03-02-10\030213.D
Operator : YA
Acquired : 2 Mar 2010 7:07 pm using AcqMethod 0222BNA
Instrument : GCMS3
Sample Name: 002242-01 1/100
Misc Info : product
Vial Number: 10



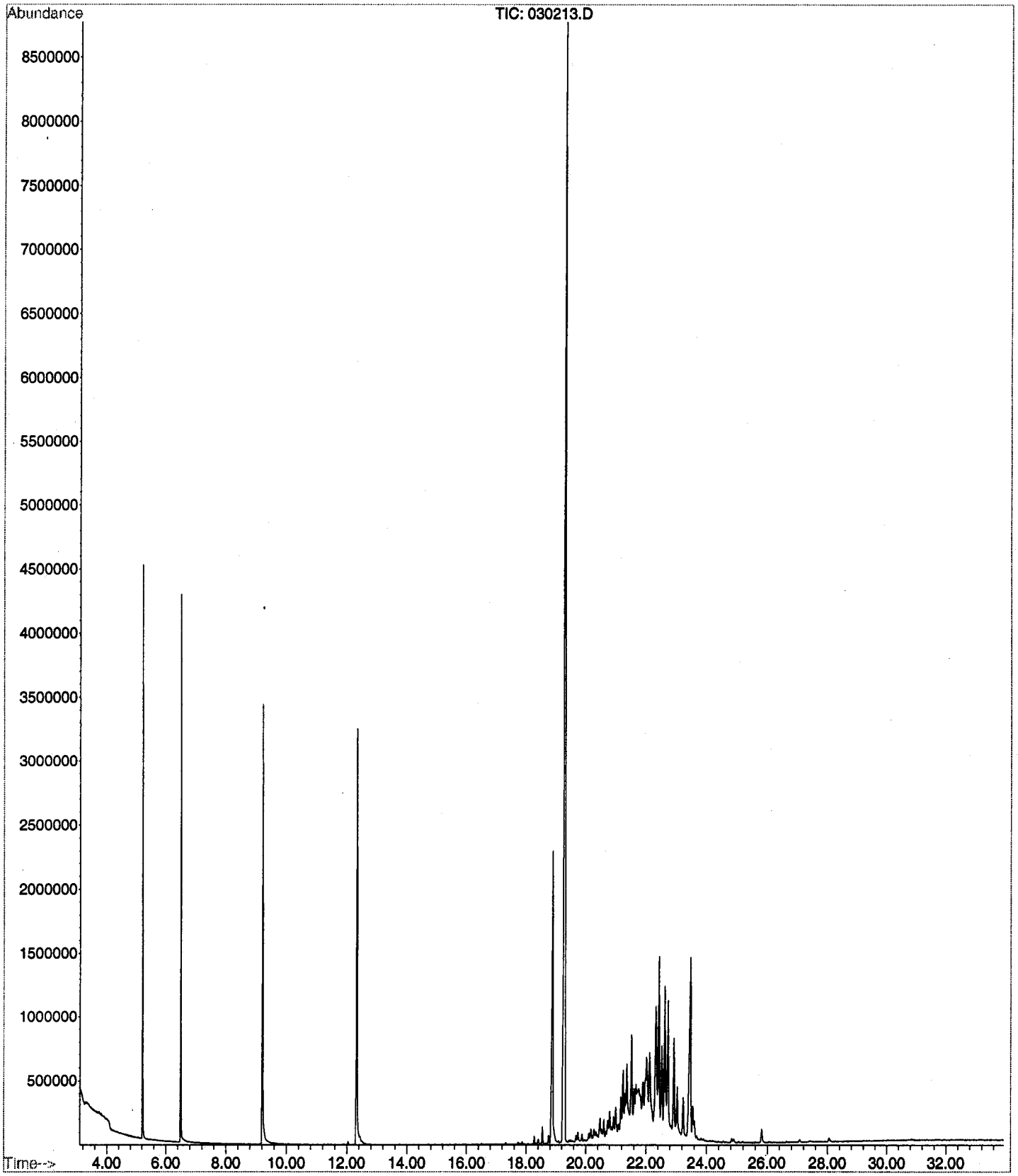
File : D:\DATA\03-02-10\030214.D
Operator : YA
Acquired : 2 Mar 2010 7:48 pm using AcqMethod 0222BNA
Instrument : GCMS3
Sample Name: 002242-02 1/100
Misc Info : product
Vial Number: 11



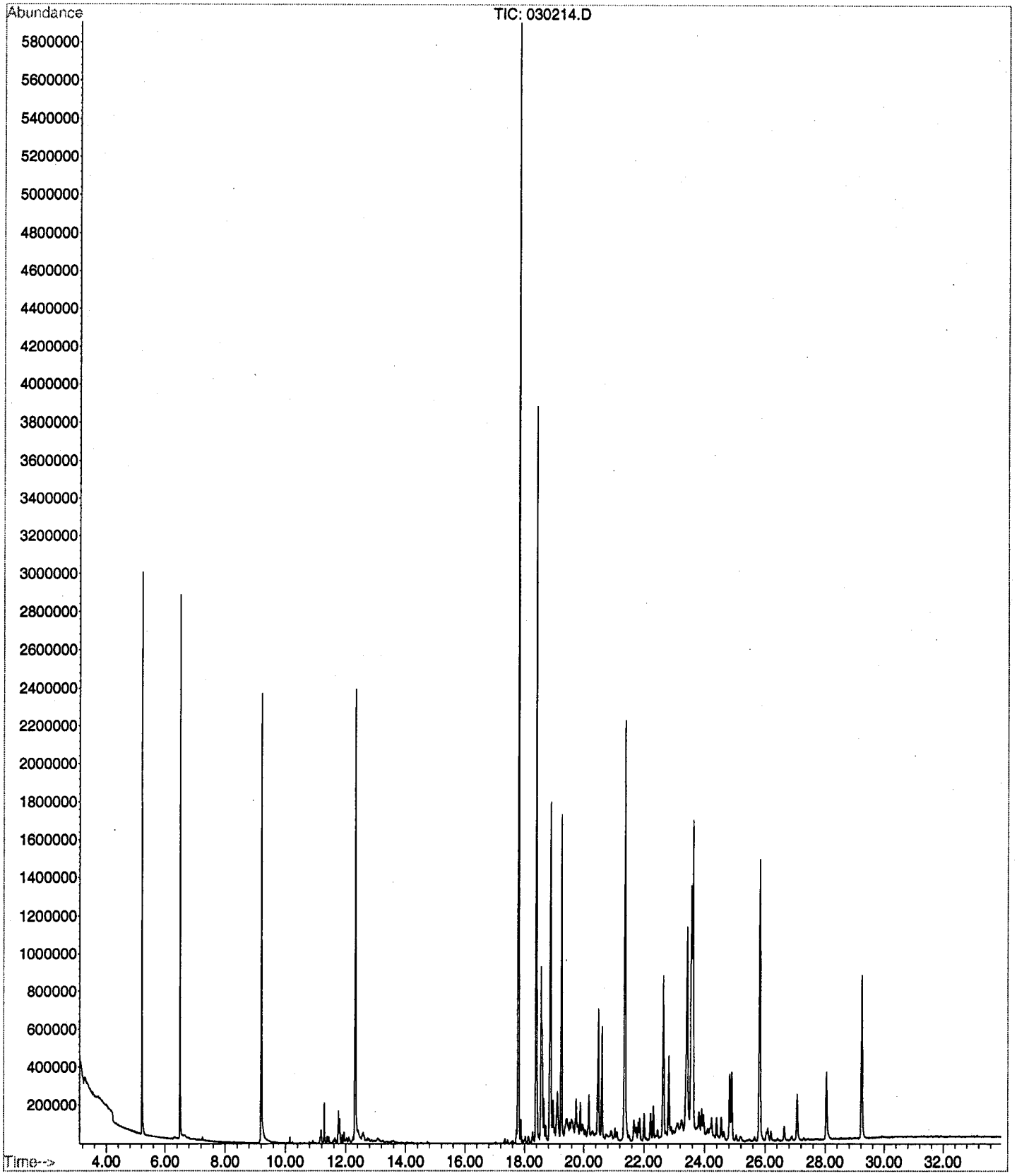
File : D:\DATA\03-02-10\030214.D
Operator : YA
Acquired : 2 Mar 2010 7:48 pm using AcqMethod 0222BNA
Instrument : GCMS3
Sample Name: 002242-02 1/100
Misc Info : product
Vial Number: 11



File : F:\DATA\03-02-10\030213.D
Operator : YA
Acquired : 2 Mar 2010 7:07 pm using AcqMethod 0222BNA
Instrument : GCMS3
Sample Name: 002242-01 1/100
Misc Info : product
Vial Number: 10



File : F:\DATA\03-02-10\030214.D
Operator : YA
Acquired : 2 Mar 2010 7:48 pm using AcqMethod 0222BNA
Instrument : GCMS3
Sample Name: 002242-02 1/100
Misc Info : product
Vial Number: 11



002242

CHAIN OF CUSTODY

MP 02/25/10 D02

Send Report To

Company Ecosystems Strategies, Inc.

Address 24 Davis Avenue

City, State, ZIP Poughkeepsie, New York 12603

Phone # (845)452-1658 Fax # (845)-485-7083

SAMPLERS (signature)

PROJECT NAME/NO.: 49 Dupont Street / SB09110

PO #

REMARKS

TURNAROUND TIME
X Standard (2 Weeks)
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
X Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	PCBs Sample Point						Notes
RW-12	01	2/15/10	10:45	Free Product	1, 8oz							X						
MW-4	02	2/22/10	11:22	Free Product	1, 8oz							X						

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:				
Received by:	Nhan Phan	FeBI	2/25/10	1500
Relinquished by:				
Received by:		Samples received at 20 °C		

FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

April 22, 2010

Emery Lawson, Project Manager
Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie, NY 12603

Dear Ms. Lawson:

Included are the results from the additional testing of material submitted on February 25, 2010 from the 49 Dupont Street/SB09110, F&BI 002242 project. There are 3 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Bradley T. Benson

Bradley T. Benson
Chemist

Enclosures
es/BTB
NAA0422R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	RW-12	Client:	Ecosystems Strategies, Inc.
Date Received:	02/25/10	Project:	49 Dupont Street/SB09110
Date Extracted:	03/02/10	Lab ID:	002242-01 1/100
Date Analyzed:	03/02/10 19: 07	Data File:	030213.D
Matrix:	Product	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	0 vo	27	76
Phenol-d6	0 vo	13	58
Nitrobenzene-d5	0 vo	55	115
2-Fluorobiphenyl	0 vo	51	113
2,4,6-Tribromophenol	0 vo	28	107
Terphenyl-d14	0 vo	45	119

Compounds:	Concentration mg/kg (ppm)
Dimethyl phthalate	<1,000
Di-n-butyl phthalate	<1,000
Benzyl butyl phthalate	<1,000
Bis(2-ethylhexyl) phthalate	160,000 ve
Di-n-octyl phthalate	7,800

Note: The surrogate compounds have not been added to the sample.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	MW-4	Client:	Ecosystems Strategies, Inc.
Date Received:	02/25/10	Project:	49 Dupont Street/SB09110
Date Extracted:	03/02/10	Lab ID:	002242-02 1/100
Date Analyzed:	03/02/10 19: 48	Data File:	030214.D
Matrix:	Product	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	0 vo	27	76
Phenol-d6	0 vo	13	58
Nitrobenzene-d5	0 vo	55	115
2-Fluorobiphenyl	0 vo	51	113
2,4,6-Tribromophenol	0 vo	28	107
Terphenyl-d14	0 vo	45	119

Compounds:	Concentration mg/kg (ppm)
Dimethyl phthalate	<1,000
Di-n-butyl phthalate	<1,000
Benzyl butyl phthalate	<1,000
Bis(2-ethylhexyl) phthalate	48,000
Di-n-octyl phthalate	65,000

Note: The surrogate compounds have not been added to the sample.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	Ecosystems Strategies, Inc.
Date Received:	Not Applicable	Project:	49 Dupont Street/SB09110
Date Extracted:	03/02/10	Lab ID:	00293mb
Date Analyzed:	03/02/10	Data File:	030210.D
Matrix:	Product	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	0 vo	27	76
Phenol-d6	0 vo	13	58
Nitrobenzene-d5	0 vo	55	115
2-Fluorobiphenyl	0 vo	51	113
2,4,6-Tribromophenol	0 vo	28	107
Terphenyl-d14	0 vo	45	119

Compounds:	Concentration mg/kg (ppm)
Dimethyl phthalate	<10
Di-n-butyl phthalate	<10
Benzyl butyl phthalate	<10
Bis(2-ethylhexyl) phthalate	<100
Di-n-octyl phthalate	<10

Note: The surrogate compounds have not been added to the sample.

002242

CHAIN OF CUSTODY

MP 02/25/10 D02

Send Report To

Company Ecosystems Strategies, Inc.

Address 24 Davis Avenue

City, State, ZIP Poughkeepsie, New York 12603

Phone # (845)452-1658 Fax # (845)-485-7083

SAMPLERS (signature)

PROJECT NAME/NO.: 49 Dupont Street / SB09110

PO #

REMARKS

TURNAROUND TIME
X Standard (2 Weeks)
RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
X Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Gl. MS Tri-Dissolved Fluid						Notes
RW-12	01	2/15/10	10:45	Free Product	1, 8oz							X						
MW-4	02	2/22/10	11:22	Free Product	1, 8oz							X						

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:				
Received by:	Nhan Phan	FeBI	2/25/10	1500
Relinquished by:				
Received by:		Samples received at 20 °C		

FORMS\COC\COC.DOC

SB09110

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
e-mail: fbi@isomedia.com

May 10, 2012

Kim Punchar
Ecosystems Strategies, Inc.
24 Davis Ave.
Poughkeepsie, NY 12603

Dear Ms. Punchar:

Included are the results from the testing of material submitted on April 30, 2012 from the 49-55 Dupont Street SB09110.50, F&BI 204418 project. The product sample submitted for forensic evaluation arrived in good condition. Upon arrival, the sample MW-20 was placed in a refrigerator maintained at 4°C until removed for sample processing.

The sample MW-20 was diluted and analyzed using a gas chromatograph with a flame ionization detector (GC/FID). The data generated yielded information on the boiling range and general chemical composition of the material present. The GC/FID traces are enclosed. A GC/FID trace of a standard consisting of normal alkanes is also provided for reference purposes. In addition, the sample MW-20 was analyzed using a GC fitted with a mass spectrometer (MS).

Based on the GC/FID trace, the sample MW-20 contains a single peak which is consistent with an individual compound and is not consistent with common petroleum products. Review of the GC/MS screen shows that the product present in the sample MW-20 contains primarily bis (2-ethylhexyl) phthalate.

Please contact us if additional consultation is needed by our firm in the interpretation of the analytical results provided. We appreciate this opportunity to be of service to you and hope you will call if you should have any questions. We will hold your samples for 30 days before disposal unless directed otherwise.

Sincerely,

FRIEDMAN & BRUYA, INC.

Bradley T Benson

Bradley T. Benson, Chemist

Enclosures
mcp/BTB
NAA0510R.DOC

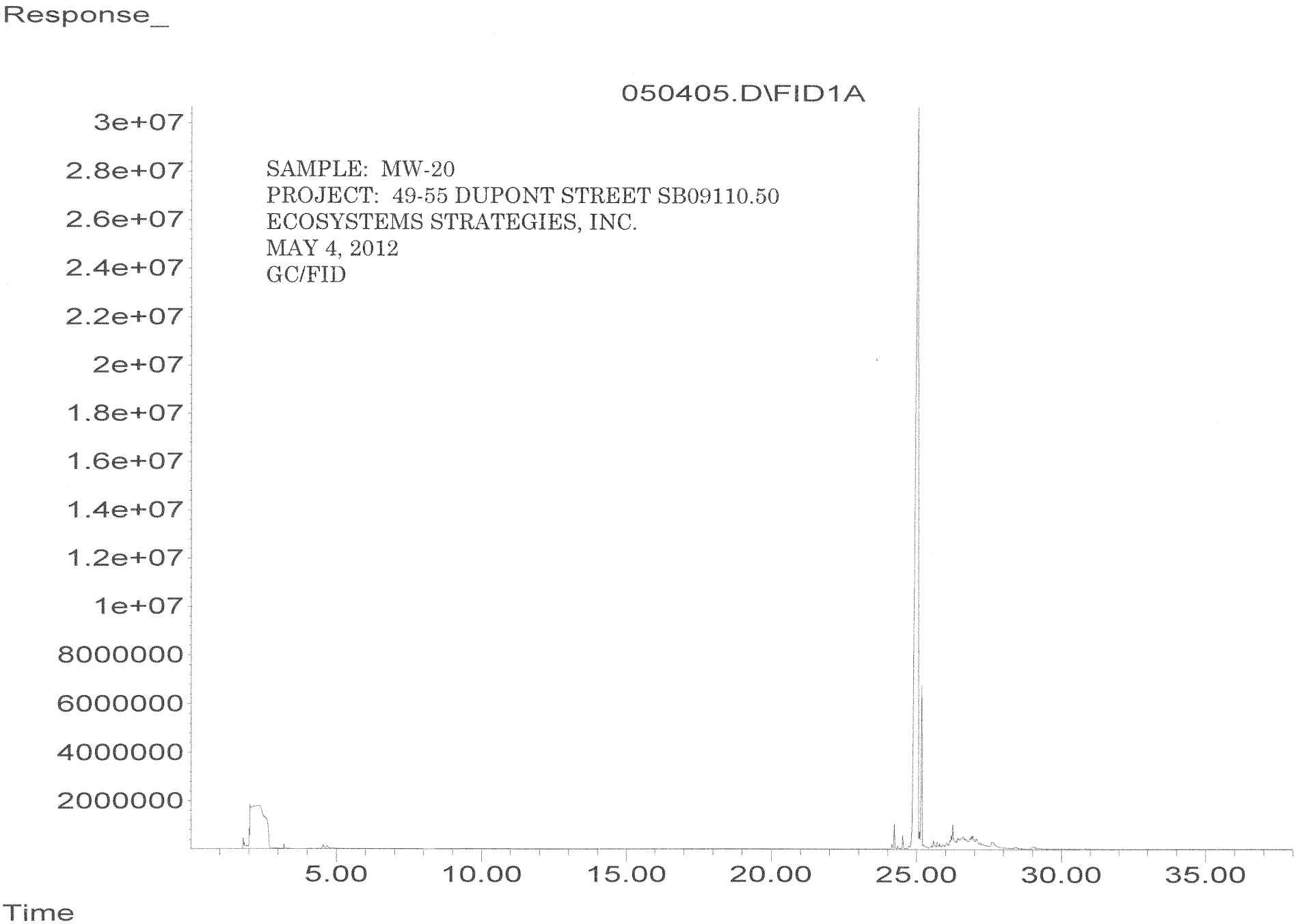
FRIEDMAN & BRUYA, INC.

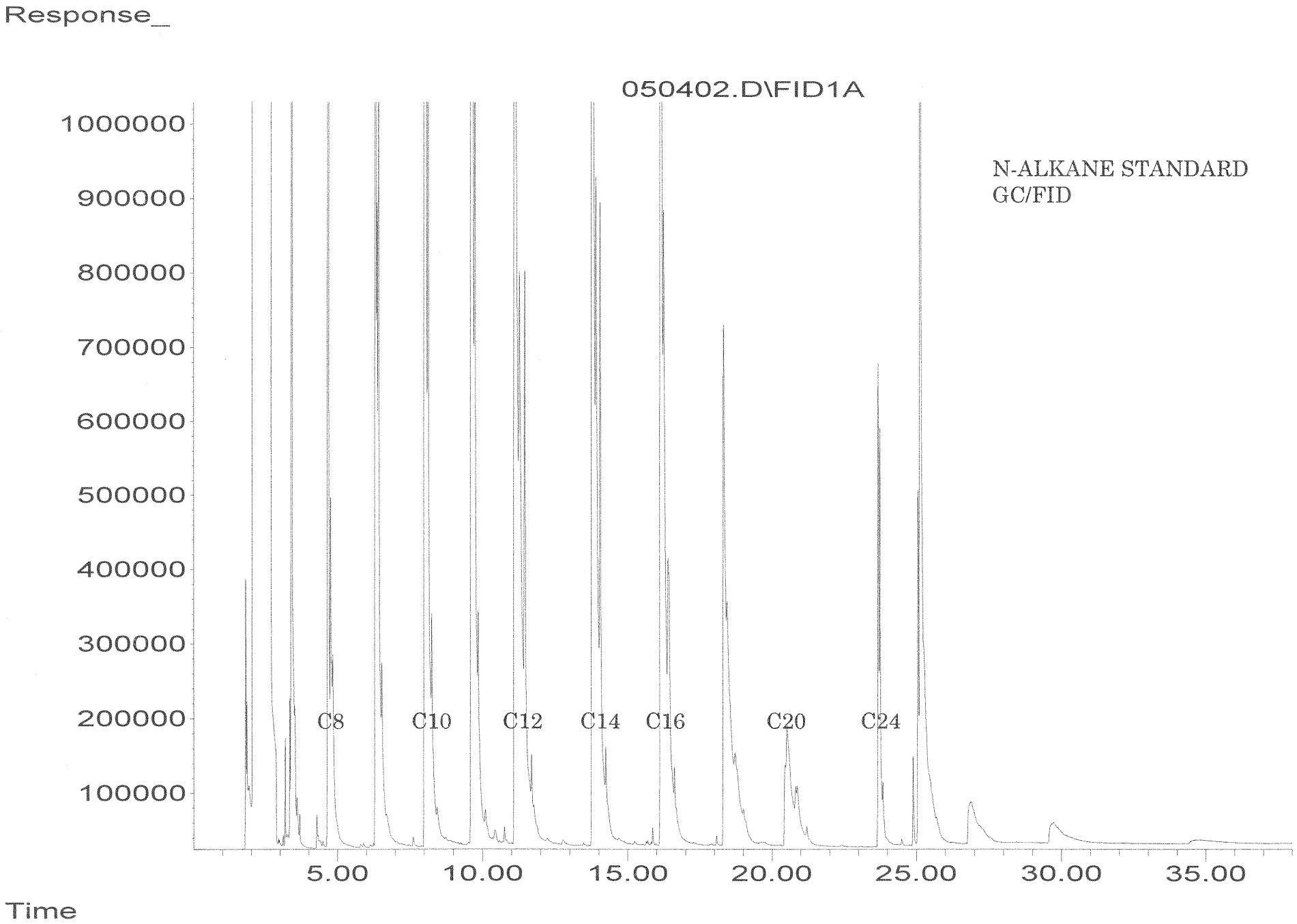
ENVIRONMENTAL CHEMISTS

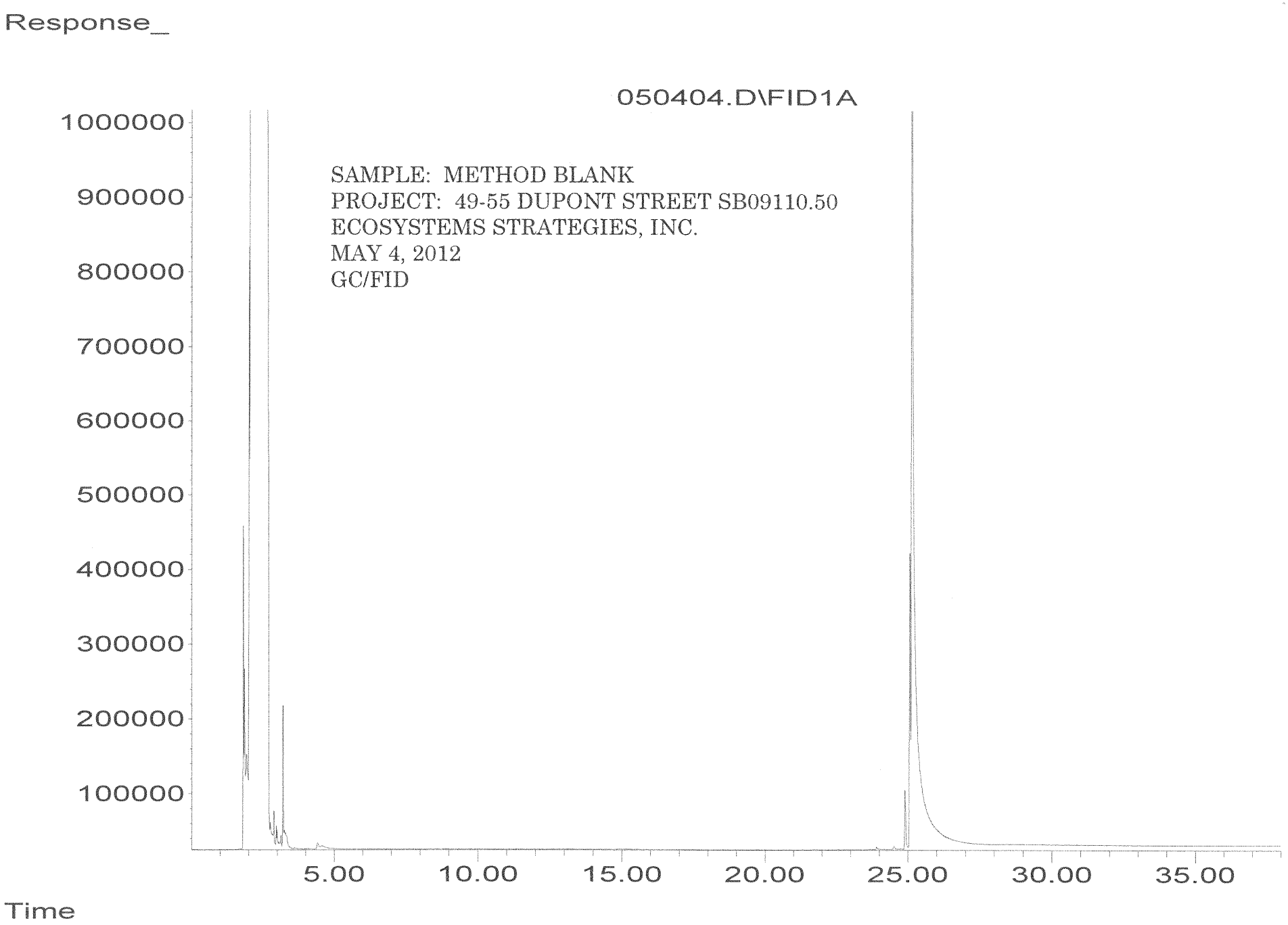
Date of Report: 05/10/12
Date Received: 04/30/12
Project: 49-55 Dupont Street SB09110.50, F&BI 204418
Date Extracted: 05/04/12
Date Analyzed: 05/04/12

RESULTS FROM THE ANALYSIS OF THE PRODUCT SAMPLE FOR FORENSIC EVALUATION BY CAPILLARY GAS CHROMATOGRAPHY USING A FLAME IONIZATION DETECTOR (FID)

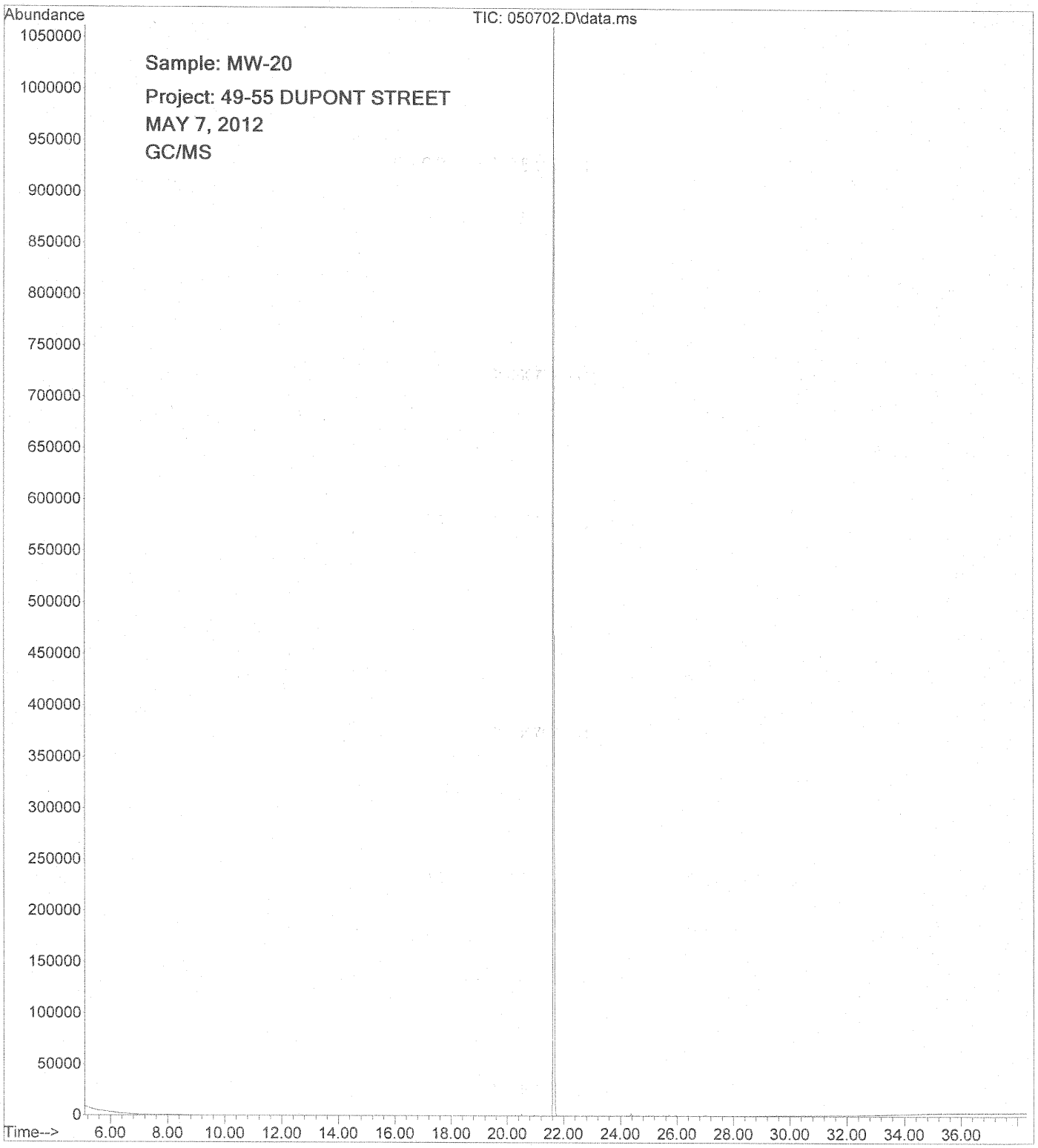
Sample ID	GC Characterization
MW-20	The GC trace using the flame ionization detector (FID) showed the presence of medium boiling compound. The material present in this sample is consistent with an individual compound and is consistent with common petroleum products. The medium boiling compounds appear as a single peak eluting near n-C_{25}. This correlates with a temperature of approximately 400°C. The large peak seen near 25 minutes on the GC/FID trace is pentacosane, added as a quality assurance check for this GC analysis.


Response_
050405.D\FID1A
3e+07
2.8e+07
2.6e+07
2.4e+07
2.2e+07
2e+07
1.8e+07
1.6e+07
1.4e+07
1.2e+07
1e+07
8000000
6000000
4000000
2000000
SAMPLE: MW-20
PROJECT: 49-55 DUPONT STREET SB09110.50
ECOSYSTEMS STRATEGIES, INC.
MAY 4, 2012
GC/FID
5.00
10.00
15.00
20.00
25.00
30.00
35.00
Time

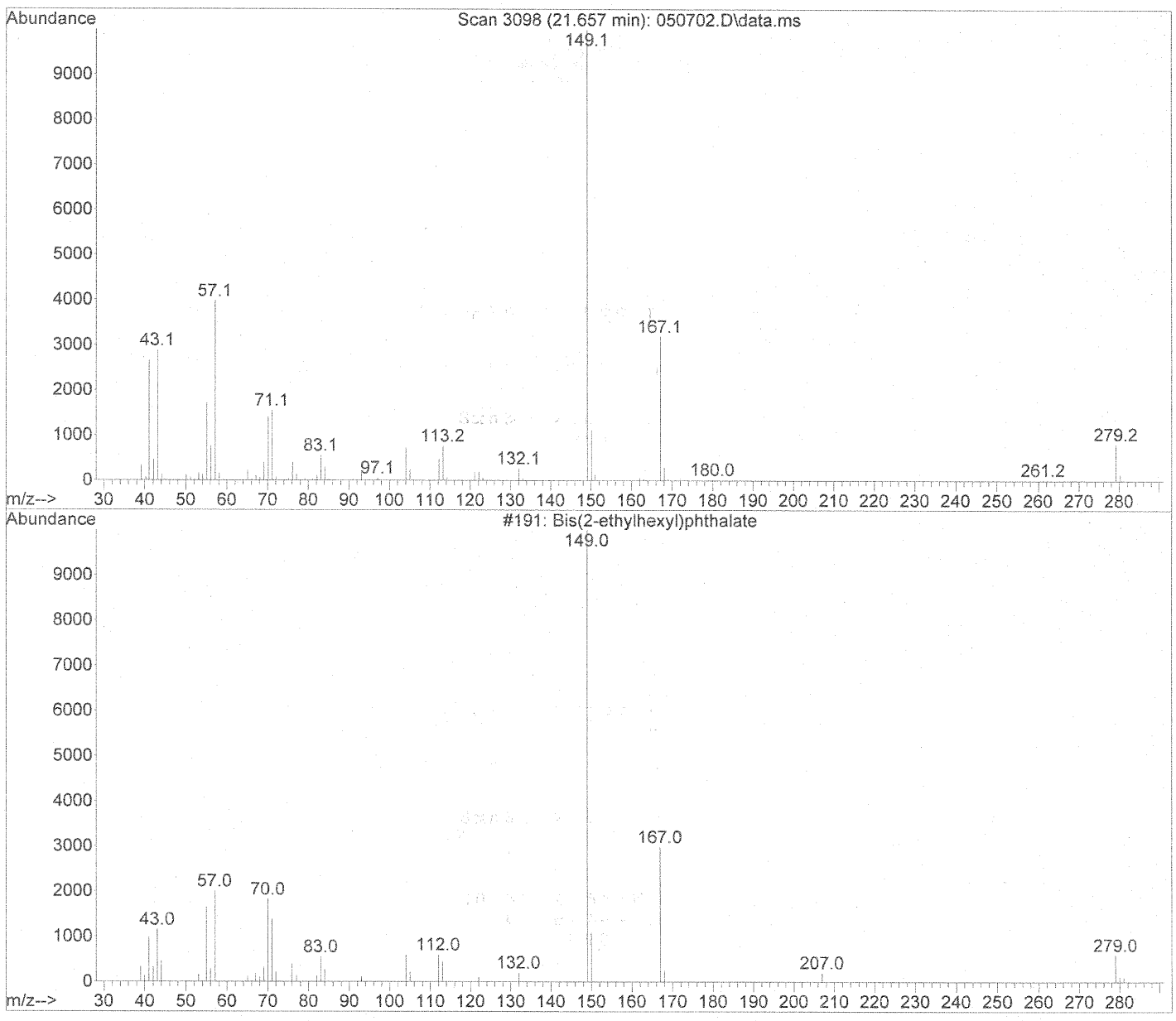

Response_
050402.D\FID1A
N-ALKANE STANDARD
GC/FID
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
C8
C10
C12
C14
C16
C20
C24
5.00
10.00
15.00
20.00
25.00
30.00
35.00
Time


Response_
050404.D\FID1A
SAMPLE: METHOD BLANK
PROJECT: 49-55 DUPONT STREET SB09110.50
ECOSYSTEMS STRATEGIES, INC.
MAY 4, 2012
GC/FID
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
5.00
10.00
15.00
20.00
25.00
30.00
35.00
Time

File :D:\GCMS8\Data\05-07-12\050702.D
Operator : YA
Acquired : 7 May 2012 5:18 pm using AcqMethod BNAPSCAN.M
Instrument : GCMS8
Sample Name: 204418-01
Misc Info :
Vial Number: 2



Library Searched : C:\Database\8270_DRS.L
Quality : 91
ID : Bis(2-ethylhexyl)phthalate



Name	Bis(2-ethylhexyl)phthalate
CAS Number	000117-81-7
Entry Number	191
Molecular Formula	C24H38O4
Misc Information	
Match Quality	91
Company ID	8270.msp
Retention Index	726.42
Melting Point	
Boiling Point	
Molecular Weight	390.00

204418

SAMPLE CHAIN OF CUSTODY

MP 04/30/12

A02

Page # 1 of 1

Send Report To

Company Ecosystems Strategies, Inc

Address 24 Davis Ave.

City, State, ZIP Pough Keepsie, NY 12603

Phone # 845-452-1658 Fax # 845-485-7083

SAMPLERS (signature) M. Perty

PROJECT NAME/NO. 49-55 Dupont Street SB09110.50

PO #

REMARKS

TURNAROUND TIME
X Standard (2 Weeks)
RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
Dispose after 30 days
Return samples
X Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	~~GCMS-GA/FTD~~ fingerprint	GC/MS scan					Notes
MW-20	01	4-27-12	12:00	Free Product	1, 8oz							X	✓					*

ANALYSES REQUESTED

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:				
Received by: [signature]	Nhan Phan	FeBI	4/30/12	1310
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

Samples received at 2°C

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Emery Lawson

Report Date: 03/23/2010
Client Project ID: SB09110
York Project (SDG) No.: 10B0508
Revision No. 1.0

Report Date: 03/23/2010
Client Project ID: SB09110
York Project (SDG) No.: 10B0508

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Emery Lawson

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 17, 2010 and listed below. The project was identified as your project: **SB09110**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
10B0508-06	RW-7	Oil	02/16/2010	02/17/2010

General Notes for York Project (SDG) No.: 10B0508

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.

Approved By: **Date:** 03/23/2010

Robert Q. Bradley
Managing Director

YORK

YORK
ANALYTICAL LABORATORIES, INC.

Sample Information

Client Sample ID: **RW-7** **York Sample ID:** **10B0508-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
10B0508	SB09110	Oil	February 16, 2010 3:00 pm	02/17/2010

Semi-Volatiles, Phthalate Target List

Sample Notes:

Sample Prepared by Method: Waste Dilution

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg	0.00695	50.0	1	EPA SW-846 8270C-SIM	03/11/2010 16:30	03/15/2010 20:44	TD
103-23-1	bis-(2-Ethylhexyl) adipate	ND		mg/kg	0.00714	50.0	1	"	03/11/2010 16:30	03/15/2010 20:44	TD
117-81-7	**Bis(2-ethylhexyl)phthalate**	**130**		mg/kg	0.00558	50.0	1	"	03/11/2010 16:30	03/15/2010 20:44	TD
84-66-2	Diethyl phthalate	ND		mg/kg	0.00875	50.0	1	"	03/11/2010 16:30	03/15/2010 20:44	TD
131-11-3	Dimethyl phthalate	ND		mg/kg	0.00480	50.0	1	"	03/11/2010 16:30	03/15/2010 20:44	TD
84-74-2	**Di-n-butyl phthalate**	**30.0**	J	mg/kg	0.00498	50.0	1	"	03/11/2010 16:30	03/15/2010 20:44	TD
117-84-0	Di-n-octyl phthalate	ND		mg/kg	0.00750	50.0	1	"	03/11/2010 16:30	03/15/2010 20:44	TD

YORK
ANALYTICAL LABORATORIES, INC.

Notes and Definitions

J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.
ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 10B0508

Client Information		Report to:		Invoice To:		Client Project ID	Turn-Around Time		Report Type/Deliverables	
Company:	Ecosystems Strategies	SAME	X	SAME		SB09110	RUSH Same Day		Summary	X
Address:	24 Davis Avenue	Name:		Name:	Brenda Wells		RUSH Next Day		QA/QC Summary	
	Poughkeepsie, NY 12603	Company:		Company:	Ecosystems Strategies		RUSH Two Day		CT RCP Pkg	
Phone no.:	(845)452-1658	Address:		Address:		Purchase Order no.	RUSH Three Day		ASP A Pkg	
Contact Person	Emery Lawson						RUSH Four Day		ASP B Pkg	
E-mail Addr.:		E-mail:		E-mail			Standard (5-7 days)	X	Excel	X
FAX No.:	(845)-485-7083	Fax No.:		Fax No.:		Samples from: CT__NY__NJ__	OTHER		EDD	

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Emery Lawson
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Miscellaneous Parameters			Special Instructions
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity	Nitrate	Color	Field Filtered ☐
624	Site Spec.	STARS	8081Pest	PP13	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols	Lab to Filter ☐
STARS	SPLP or TCLP	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability	TKN	Cyanide-T	
BTEX	Benzene	Acids Only	CT RCP	CT15	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A	
MTBE	Nassau Co.	PAH	App. IX	Total	TPH 418.1	Full App. IX	Sieve Anal.	Ammonia-N	BOD5	
TCL list	Suffolk Co.	TAGM	Site Spec.	Dissolved	Air TO14A	Part 360-Routine	Heterotrophs	Chloride	CBOD5	
TAGM	Ketones	CT RCP	SPLP or TCLP	SPLP or TCLP	Air TO15	Part 360-Baseline	TOX	Phosphate	BOD28	
CT RCP	Oxygenates	TCL list	TCLP Pest	Indiv. Metals	Air STARS	Part 360-Expanded Not Detected Results	BTU/lb.	Tot. Phos.	COD	
Arom.	TCLP list	TICs	TCLP Herb	Hg, Pb, As, Cd	Air VPH	Part 360-Expanded Full List	Aquatic Tox.	Oil&Grease	TSS	
Halog.	524.2	App. IX	Chlordane	Cr, Ni, Be, Fe	Air TICs	NYCDEP Sewer	TOC	F.O.G.	Total Solids	
App.IX	502.2	SPLP or TCLP	608 Pest	Se, Tl, Sb, Cu,	Methane	NYSDEC Sewer	Asbestos	pH	TDS	
8021B list	5035	TCLP BNA	608 PCB	Na, Mn, Ag, etc.	Helium	TAGM	Silica	MBAS	TPH - IR	

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-3	2/15/2010	GW	VOCs (8260 full), SVOCs (8270)	2, 40ml vials and Amber Liters
MW-10	2/15/2010	GW	VOCs (8260 full), SVOCs (8270)	2, 40ml vials and Amber Liters
MW-12	2/15/2010	GW	VOCs (8260 full), SVOCs (8270)	2, 40ml vials and Amber Liters
MW-13	2/15/2010	GW	VOCs (8260 full), SVOCs (8270)	2, 40ml vials and Amber Liters
MW-14	2/15/2010	GW	VOCs (8260 full), SVOCs (8270)	2, 40ml vials and Amber
RW-7	2/16/2010	Other - Free Product	SVOCs (Phthalates, USEPA 8270 Selected Ion Monitoring)	8 oz jar

Comments

Preservation "X" those applicable: 4°C HNO3 H2SO4 NaOH NONE FROZEN

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
	2/17/10 3:05		2-17-10 15:00
Samples Relinquished By	Date/Time	Samples Received in LAB by	Date/Time
			2/17/10-1700

Temperature on Receipt 3.6 °C

APPENDIX I

Data Usability Summary Reports

SUMMARY REVIEW OF
DATA USABILITY SUMMARY REPORTS

Former NuHart
Plastic Manufacturing Site

280 Franklin Street
Brooklyn, New York

NYSDEC Hazardous Waste Site: 224136

July 2015

ESI File: SB09110.55

Prepared By:

Ecosystems Strategies, Inc.
24 Davis Avenue, Poughkeepsie, NY 12603
phone 845.452.1658 | fax 845.485.7083 | ecosystemsstrategies.com

Ecosystems Strategies, Inc.

SUMMARY REVIEW OF
DATA USABILITY SUMMARY REPORTS

Former NuHart Plastic Manufacturing Site
280 Franklin Street
Brooklyn, New York

NYSDEC Hazardous Waste Site: 224136

July 2015

ESI File: SB09110.55

Prepared By:

Ecosystems Strategies, Inc.
24 Davis Avenue
Poughkeepsie, New York 12603

Prepared For:

Dupont Street Developers LLC
390 Berry Street, Suite 200
Brooklyn, NY 11249

I, Paul H. Ciminello, certify that I am currently a Qualified Environmental Professional as defined in 6NYCRR Part 375 and that this Summary Review of Data Usability Summary Reports was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

INSTITUTE OF PROFESSIONAL ENVIRONMENTAL PRACTICE
PAUL H. CIMINELLO
QUALIFIED ENVIRONMENTAL PROFESSIONAL
No. 08130028

Paul H. Ciminello
President

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1.2 Site Location and Description

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3.2 Data Qualifiers
3.3 Review of Laboratory Data Packages

4.0 CONCLUSIONS 6

Attachments:

DUSRs Provided by Data Validators

1.0 INTRODUCTION

This Summary Review of Data Usability Summary Reports ("Report") provides data validation information for soil vapor, soil and groundwater sampling data collected during Remedial Investigation (RI) activities conducted at the Former NuHart Plastic Manufacturing Site, a NYSDEC IHWDS (No. 224136).

1.1 Background and Purpose

The RI was performed to document the extent of known contamination resulting from former manufacturing and industrial uses of the property. All investigations were conducted consistent with the NYSDEC approved Remedial Investigation Work Plan (November 2011), directives from NYSDEC to conduct additional groundwater investigation, Supplemental Remedial Investigation Work Plan (July 2013), NYSDEC-approved Scope of Work for installation of monitoring wells at the adjoining Greenpoint Playground to the west (June 2014) and TCE Delineation Work Plan (September 2014), collectively referenced in this report as the "Work Plan".

This Report describes data validation information for sampling activities conducted from February 2012 to December 2014 and documents whether there are any unreliable or unusable analytical data that would affect the findings presented in the Remedial Investigation Report (June 2015).

1.2 Site Location and Description

The approximately 1-acre Site is identified on the city tax map as Block No. 2487, Lots No. 1, 10, 12, 72 and 78 (the dimensions of the Site are approximately 240 feet by 200 feet). The Site is comprised of the western portion of a vacant industrial building complex (the former NuHart Plastic Manufacturing facility) located in the Greenpoint section of Brooklyn, Kings County, New York.

Former industrial operations at the Site have impacted on-site and off-site soil and groundwater through releases of phthalates and lubricating oil from holding tanks and piping networks. Phthalates and a phthalate/oil mixture are present as widespread light non-aqueous phase liquid impacting soil and floating on the groundwater. Dissolved groundwater contamination is generally limited to phthalates and impacts from a former release of chlorinated solvents.

A NYSDEC spill event (file No. 0601852) has been reported for the NuHart property based on a release of petroleum from former underground storage tanks (USTs); the spill area, however, is located east of the Site at the northeastern portion of the building and is the subject of a separate remedial action. Data generated during the spill investigation has been incorporated into the RIR (as appropriate) to document environmental conditions outside the Site boundaries.

2.0 SAMPLING ACTIVITIES

Soil vapor, soil and groundwater sampling was conducted according to protocols specified in the Work Plan, from February 2012 to December 2014. Samples were submitted to York Analytical Laboratories and Alpha Analytical (ELAP certified laboratories) using appropriate chain-of-custody procedures for laboratory analysis and generation of a standard laboratory report, a NYSDEC EDD format and a complete ASP-B laboratory data package.

Sample identification as reported in individual laboratory reports is summarized below.

Media	Laboratory Report ID	Sampling Date(s)	Sample ID(s)
Soil Vapor	12B0191	2/6/2012	SG-1,SG-2,SG-3,SG-4
	13H0112	7/31/2013	2SB-2, 2SB-3, 2SB-4, 2SB-6, 2SB-7, 2SB-8, 2SB-10
	13L0201	12/4/2013	2SB-16
	L1422298	9/22/2014	3SB-1, 3SB-2
Soil	12B0205	2/2/2012	MW-19(10-12')
	12B0207	2/01/2012 – 2/02/2012	SB-60, SB-61, SB-67, SB-69, SB-63, SB-68, SB-77A, SB-78A
	12B0504	2/10/2012 – 2/13/2012	SB-63(14'), SB-71(14'), SB-60B(6-8'), SB-60B(8-10'), SB-60B(10-12')
	12B0769	2/15/2012 – 2/16/2012	MW-17(14'), MW-18(15'), SB-74(13'), SB-72(9'), SB-72(13'), SB-73(13.5'), MW-22(10-11'), MW-22(12-14')
	12D0700	4/19/2012	SB-65(8-12'), SB-66(12-16')
	12G0884	7/25/2012	MW-23, MW-24, MW-25
	12I0856	9/24/2012	MW-26, MW-27
	13A0300	1/8/2013	MW-29
	13A0448	1/15/2013	MW-28
	13H0180	7/31/2013 – 8/01/2013	2SB-1/MW-34(10-15'), 2SB-1/MW-34(15-20'), 2SB-2(0-5'), 2SB-2(10-15'), 2SB-3(10-15'), 2SB-4(0-5'), 2SB-4(10-15'), 2SB-5(10-15'), 2SB-6(10-15'), 2SB-7(10-15'), 2SB-8(10-15'), 2SB-9/MW-35(0-5'), 2SB-9/MW-35(10-15'), 2SB-11(10-15'), MW-30(10-15'), MW-31(10-15'), MW-32(0-5'), MW-32(10-15'), 2SB-5A, 2SB-1(15-20')
	13K0968	11/25/2013	2SB-12, 2SB-13, 2SB-14, 2SB-15
	14H0096	7/30/2014	MW-36(11-12), MW-37(11-12), MW-DUP-01
	14I1048	9/22/2014-9/24/2014	3SB-3A(0-5), 3SB-3A(10-15), 3SB-3B(15-20), 3SB-4(0-5), SB-4(15-20), 3SB-4(20-25), 3SB-5(0-5), 3SB-5(10-15), 3SB-5(15-20), 3SB-6(20-25), 3SB-6(25-30), 3SB-7(0-5), 3SB-7(10-15), 3SB-8(0-5), 3SB-8(15-20), 3SB-9(0-5), 3SB-9(15-20), 3SB-9(20-25), MW-38(0-5), MW-38(10-15), MW-39(0-5), MW-39(10-11), MW-40(0-5), MW-40(15-20), 3SB-DUP
	14J0506	12/10/2014	MW-41 (8-10), MW-42 (8-10), MW-DUP-02
Water	12B0207	02/01/2012 – 02/02/2012	Trip Blank(02/01/2012) Trip Blank(02/02/2012) Rinse Blank
	12B0504	02/10/2012 – 02/13/2012	Trip Blank
	12B0769	02/15/2012 – 02/16/2012	Trip Blank
	12C0577	3/16/2012	MW-10, MW-13, MW-18, MW-19, MW-22, Trip Blank, Rinse Blank
	12D0913	4/25/2012	MW-22, MW-13, MW-13, TB-4/25/2012
	12I0856	9/24/2012	MW-23, MW-24, Trip Blank
	12J0086	9/28/2012	MW-27, Trip Blank
	13H0697	8/16/2013	MW-28, MW-29, MW-30, MW-31, MW-32, MW-34, MW-35, TB-1
	13K0968	11/25/2013	MW-3, MW-34
	14D0225	4/3/2014	MW-4, MW-8, MW-21, TB-020120403
	14H0096	7/30/2014	TB-20140730
	14I1048	09/22/2014-09/24/2014	TB-20140922, TB-20140923, TB-20140924
	14J0546	10/08/2014-10/09/2014	MW-7, MW-8, MW-12, MW-13, MW-14, MW-14A, MW-18, MW-22, MW-34, MW-38, MW-39, MW-40, TB-20141008, TB-20141009
	14J0506	12/10/2014	TB-20141210
	14L0993	12/23/2014	MW-36, MW-26A, MW-37, MW-41, MW-42, TB20141223

3.0 DATA VALIDATION SERVICES

3.1 Data Validators

Complete ASP-B laboratory data packages for groundwater samples were provided to the following independent, third-party data validators:

Michael Fifield, EnviroAnalytics
2638 Sunset Avenue, Utica, NY 13502
Phone: (315) 507-4511

Tony Zoccolillo, ZDataReports
Data Management and Validation Service
118 Rose Lane Terrace
Syracuse, New York 13219
Phone: (716) 907-2341

Copies of the Data Usability Summary Reports (DUSRs) provided by the data validators are provided as an attachment.

3.2 Data Qualifiers

The data validators reviewed the sampling data packages and qualified data using one or more of the following qualifiers:

U Indicates that the compound was analyzed for, but was not detected. The sample quantification limit is presented and adjusted for dilution. This qualifier is also used to signify that the detection limit of an analyte was raised due to blank contamination.

J Indicates that the result should be considered approximate. This qualifier is used when the data validation procedure identifies a deficiency in the data generation process.

UJ Indicates that the detection limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.

R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data are considered to be unusable for both qualitative and quantitative purposes.

3.3 Review of Laboratory Data Packages

The data validators' review of the ASP-B data packages are summarized in the following sub-sections.

3.3.1 Inorganic Compounds

Data validation for total inorganic parameters was performed for 14 soil samples, 16 water samples, and 1 rinse blank sample. Data for inorganic compounds were determined to be usable for qualitative and quantitative purposes with the exception of silver for one soil sample that was rejected due to matrix spike recovery deviations. Sample results for several analytes were also qualified based on deviations from initial and continuing calibration, matrix spike, and ICP serial dilution analysis criteria.

Inorganic Compounds – Rejected Analytical Results

Analyte	Media	Sample ID(s)
silver	soil	MW-28

Rejected data for silver concentrations in soil sample MW-28 are considered to be inconsequential in relation to the sampling program as a whole, and silver is not an established contaminant of concern.

3.3.2 Volatile Organic Compounds (VOCs)

Data validation for total VOC parameters was performed for 14 soil vapor samples, 70 soil samples, 32 water samples, 2 rinse blanks and 16 trip blanks. All soil vapor data were determined to be usable for qualitative and quantitative purposes with additional qualification.

The VOC analyses data for soil and water were determined to be usable for qualitative and quantitative purposes with the exception of a low percentage of the non-detected sample results for several compounds, which were rejected due to deviations from continuing calibration, laboratory control sample, and/or internal standard recovery criteria. Sample results for several compounds were qualified based on deviations from blank analysis, initial calibration, continuing calibration, laboratory control sample, internal standard recovery, surrogate recovery, and/or matrix spike criteria.

Soil and water VOC data were determined to be usable for qualitative and quantitative purposes with the exception of the following analytes:

VOCs – Rejected Analytical Results

Analyte	Media	Sample ID(s)
1,1,2,2-tetrachloroethane	soil	MW-26
1,2,3-trichloropropane	soil	MW-26
1,2,4-trichlorobenzene	soil	MW-26
1,2,4-trimethylbenzene	soil	MW-26
1,2-dibromo-3-chloropropane	soil	MW-26
1,3,5-trimethylbenzene	soil	MW-26
1,3-dichlorobenzene	soil	MW-26
1,4-dioxane	soil	MW-19 (10-12), MW-29, MW-30 (10-15), MW-31 (10-15), MW-32 (0-5), MW-32 (10-15), SB-60, SB-60B (6-8), SB-61, SB-63 (14), SB-65 (8-12), SB-66 (12-16), SB-67, SB-69, SB-71 (14), 2SB-1 (15-20), 2SB-2 (10-15), 2SB-5A, 2SB-11 (10-15)
1,4-dioxane	water	MW-27, MW-28 through MW-32, MW-34, MW-35, Trip Blank (9/28/2012), TB-1 (8/16/2013)
2-chlorotoluene	soil	MW-26
4-chlorotoluene	soil	MW-26
bromobenzene	soil	MW-26
bromoform	soil	MW-26
bromomethane	soil	2SB-13 through 2SB-15
hexachloro-1,3-butadiene	soil	MW-26
tert-butylbenzene	soil	MW-26

Rejected data for specific VOC analytes are considered to be inconsequential in relation to the sampling program as a whole, and the specific rejected analytes do not include established contaminants of concern.

3.3.3 Semi-Volatile Organic Compounds (SVOCs)

Data validation for total SVOC parameters was performed for 58 soil samples, 22 water samples, and 2 rinse blank samples.

The SVOC analyses data for soil and water were determined to be usable for qualitative and quantitative purposes with the exception of non-detected sample results for several compounds, which were rejected due to deviations from calibration, laboratory control sample, matrix spike, and/or surrogate recovery criteria. Sample results for several compounds were qualified based on deviations from initial calibration, continuing calibration, laboratory control sample, surrogate recovery, and/or matrix spike criteria.

Insufficient matrix spike recovery in sample MW-17 (14) resulted in the rejection of non-detected SVOC sample results for all compounds in the following soil samples (accounting for the majority of all rejected SVOC data): MW-17 (14), MW-18 (15), SB-72 (9), SB-72 (13), SB-73 (13.5), SB-74 (13), MW-22 (10-11) and MW-22 (12-14).

All other soil and water SVOC data were determined to be usable for qualitative and quantitative purposes with the exception of the following analytes:

SVOCs – Rejected Analytical Results

Analyte	Media	Sample ID(s)
2,4,5-trichlorophenol	water	MW-30, MW-31, MW-32, MW-34, MW-35
2,4,6-trichlorophenol	water	MW-30, MW-31, MW-32, MW-34, MW-35
2,4-dichlorophenol	water	MW-30, MW-31, MW-32, MW-34, MW-35
2,4-dimethylphenol	water	MW-30, MW-31, MW-32, MW-34, MW-35
2,4-dinitrophenol	soil	MW-30 (10-15), MW-31 (10-15), MW-32 (0-5), MW-32 (10-15), 2SB-1/MW-34 (10-15), 2SB-1/MW-34 (15-20), 2SB-2 (0-5), 2SB-2 (10-15), 2SB-3 (10-15), 2SB-4 (0-5), 2SB-4 (10-15), 2SB-5 (10-15), 2SB-5A, 2SB-6 (10-15), 2SB-7 (10-15), 2SB-8 (10-15), 2SB-9/MW-35 (0-5), 2SB-9/MW-35 (10-15), 2SB-11 (10-15)
2,4-dinitrophenol	water	MW-27, MW-30, MW-31, MW-32, MW-34, MW-35
2-chlorophenol	water	MW-30, MW-31, MW-32, MW-34, MW-35
2-methylphenol	water	MW-30, MW-31, MW-32, MW-34, MW-35
2-nitrophenol	water	MW-30, MW-31, MW-32, MW-34, MW-35
3- & 4-methylphenols	water	MW-30, MW-31, MW-32, MW-34, MW-35
3-nitroaniline	soil	MW-29
4,6-dinitro-2-methylphenol	soil	SB-61, SB-63, SB-67, SB-68, SB-69, SB-77A, SB-77B
4,6-dinitro-2-methylphenol	water	MW-27, MW-30, MW-31, MW-32, MW-34, MW-35
4-chloro-3-methylphenol	water	MW-30, MW-31, MW-32, MW-34, MW-35
4-chloroaniline	soil	MW-29
4-nitrophenol	water	MW-3, MW-27, MW-30, MW-31, MW-32, MW-34, MW-35
aniline	soil	MW-29
benzyl alcohol	water	MW-30, MW-31, MW-32, MW-34, MW-35
hexachlorocyclopentadiene	soil	MW-28, 2SB-1 (15-20)
hexachlorocyclopentadiene	water	MW-3, MW-27, MW-34
n-nitrosodimethylamine	soil	MW-17 (14), MW-18 (15)
phenol	water	MW-30, MW-31, MW-32, MW-34, MW-35

Analyte	Media	Sample ID(s)
pyridine	soil	MW-18 (15), MW-19 (10-12), MW-30 (10-15), MW-31 (10-15), MW-32 (0-5), MW-32 (10-15), 2SB-1/MW-34 (10-15), 2SB-1/MW-34 (15-20), 2SB-2 (0-5), 2SB-2 (10-15), 2SB-3 (10-15), 2SB-4 (0-5), 2SB-4 (10-15), 2SB-5 (10-15), 2SB-5A, 2SB-6 (10-15), 2SB-7 (10-15), 2SB-8 (10-15), 2SB-9/MW-35 (0-5), 2SB-9/MW-35 (10-15), 2SB-11 (10-15)

In general, rejected data for specific SVOC analytes are considered to be inconsequential in relation to the sampling program as a whole, and the specific rejected analytes do not include established contaminants of concern. Rejection of all non-detected sample results, which includes phthalates, for soil samples originating in boring locations MW-17, MW-18, SB-72 to SB-74, and MW-22 is offset by the known extent of fieldwork observations in all borings, and acceptable analytical data from nearby locations.

4.0 Conclusions

The RIR documents soil vapor, soil and groundwater sampling conducted at the Former NuHart Plastic Manufacturing Site (NYSDEC IHWDS No. 224136), and provides the following summary conclusions:

- On-site and off-site soil and groundwater are impacted by several different phthalate compounds, generally present as non-aqueous phase liquid
- Soil vapor, soil and groundwater are impacted by TCE, with lesser impacts from related chlorinated compounds and minimal impacts from petroleum compounds
- Groundwater contamination is generally limited to TCE, TCE breakdown products and phthalates (potentially due to suspension of soil particles)

Data Usability Summary Reports (DUSRs) have been reviewed and considered in light of the findings of the RIR. ESI makes the following conclusions in regards to the DUSR review:

1. Overall, data validation summary reports have determined inorganic and organic soil and water data to be usable for qualitative and quantitative purposes, and the findings and conclusions presented in the RIR are not substantially affected by any data qualifications.
2. A minimal number of analytical results have been rejected. Rejected results for specific analytes are considered to be inconsequential in relation to the sampling program as a whole, and the specific rejected analytes generally do not include established contaminants of concern (rejection of all non-detected SVOC sample results for soil samples originating in several boring locations, including phthalates, is not significant based on known fieldwork observations and the extent of acceptable analytical data from nearby locations).

Data Usability Summary Report

Former NuHart Plastic Manufacturing Site
Brooklyn, New York

Soil Vapor Samples
SDG # 12B0191

June 2014

EnviroAnalytics
Data Management and Validation Service

2638 Sunset Avenue
Utica, New York 13502

Data Usability Summary Report

Soil Vapor Samples
SDG # 12B0191

Former NuHart Plastic Manufacturing Site
Brooklyn, New York

Prepared By:

EnviroAnalytics
Data Management and Validation Service
2638 Sunset Avenue
Utica, New York 13502

EXECUTIVE SUMMARY

This report addresses data quality for air samples collected at the former NuHart Plastic Manufacturing Site located in Brooklyn, New York. The samples were analyzed for TO-15 volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Ecosystems Strategies, Inc. of Poughkeepsie, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

The TO-15 volatile organic analyses data were determined to be usable for qualitative and quantitative purposes with additional qualification. Qualification of sample data included blank analysis for four samples and the approximation of sample results for several compounds due to deviations from initial calibration, continuing calibration, and laboratory control sample criteria

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SECTION 1 - INTRODUCTION

1.1 Introduction

This report addresses data quality for air samples collected at the former NuHart Plastic Manufacturing Site located in Brooklyn, New York. The samples were analyzed for TO-15 volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Ecosystems Strategies, Inc. of Poughkeepsie, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut. The quantity and type of samples submitted for data validation are tabulated below.

Table 1: Introduction - Sample Summary Table

SDG#	Date Collected	Sample Matrix	Sample Identification	
			Client ID	Laboratory ID
12B0191	02/06/2012	Soil Vapor	SG-1	12B0191-01
			SG-2	12B0191-02
			SG-3	12B0191-03
			SG-4	12B0191-04

1.2 Analytical Methods

The samples were analyzed for TO-15 volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies (2005 update). Laboratory analyses were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

1.3 Validation Protocols

Data validation is a process that involves the evaluation of analytical data against prescribed quality control criteria to determine the usefulness of the data. The analytical data addressed in this report were evaluated utilizing the quality control criteria presented in the following documents:

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, EPA-540-R-08-01, June 2008.
- *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6 Revision #14, USEPA Region II, September 2006.
- *Validating Air Samples Volatile Organic Analysis of Ambient Air in Canister by Method TO-15*, SOP No. HW-31 Revision #4, USEPA Hazardous Waste Support Branch, October 2006.
- *Exhibit E of New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP)*, NYSDEC June 2005.

1.3.1 Organic Parameters

The validation of organic parameters for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

TO-15 Volatile Organics Analysis

1. Holding Times
2. GC/MS Instrument Tuning Criteria
3. Calibration
   a. Initial Calibration
   b. Continuing Calibration
4. Blank Analysis
5. Surrogate Recovery
6. Matrix Spike / Matrix Spike Duplicate Analysis
7. Reference Standard Analysis
8. Internal Standards Recovery
9. Compound Identification and Quantification
10. Field Duplicate Analysis
11. System Performance
12. Documentation Completeness
13. Overall Data Assessment

1.4 Data Qualifiers

The following qualifiers as specified in the guidance documents presented in Section 1.3 of this report have been used for this data validation.

U — Indicates that the compound was analyzed for, but was not detected. The sample quantification limit is presented and adjusted for dilution. This qualifier is also used to signify that the detection limit of an analyte was raised due to blank contamination.

J — Indicates that the result should be considered approximate. This qualifier is used when the data validation procedure identifies a deficiency in the data generation process.

UJ — Indicates that the detection limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.

R — Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data are considered to be unusable for both qualitative and quantitative purposes.

The following sections of this document present a summary of the data validation process. Section 2 discusses data compliance with established QA/QC criteria and qualifications performed on the sample data. A discussion of the Precision, Accuracy, Representativeness, Comparability, and

Completeness (PARCC) of the data and data usability are discussed in Section 3. The USEPA Region II Data Validation Checklist is presented in Appendix A.

SECTION 2 - DATA VALIDATION SUMMARY

This section presents a discussion of QA/QC parameter compliance with established criteria and the qualification of data performed when QA/QC parameter deviations were identified. When several deviations from established QA/QC criteria were observed, the final qualifier assigned to the data was based on the cumulative effect of the deviations.

2.1 Volatile Organics Analysis

Data validation was performed for four soil vapor samples. The QA/QC parameters presented in Section 1.3.1 of this report were found to be within specified limits. The overall data assessment is presented below.

Blank Analysis

The method blanks contained detectable concentrations of several target compounds. Blank action levels were calculated at ten times the blank concentrations for the common laboratory contaminants and five times for other target compounds. Detected sample results, which were less than the blank action levels were qualified with a "U" in the associated samples. Results that were detected below the contract required detection limit (CRDL) were raised to the CRDL and qualified with a "U" qualifier. The "U" qualifier indicates that the volatile organic was analyzed for but was not detected above the CRDL. Samples qualified for blank contamination are tabulated below.

Table 2: Volatile Organics Analysis - Blank Analysis Deviations

Blank Matrix	Date Analyzed	Compound	Blank Action Level	Associated Samples	Qualified Sample Result
Soil Vapor	02/10/2012 (10:48)	Methylene Chloride	11.0[1] µg/M^3	SG-1 SG-2 SG-3 SG-4	7.1 U µg/M^3 3.6 U µg/M^3 17 U µg/M^3 4.2 U µg/M^3

1. Blank action level corrected for sample dilution

Initial Calibration

The initial calibration percent relative standard deviation (%RSD) limit, which requires the %RSD to be less than 40 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %RSD criteria were exceeded, but were less than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

Table 3: Volatile Organics Analysis - Initial Calibration Deviations

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
01/05/2012 (16:29)	1,2,4-Trichlorobenzene	40.05 %	UJ	SG-1 SG-2 SG-3 SG-4

Continuing Calibration

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 30 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

Table 4: Volatile Organics Analysis - Continuing Calibration Deviations

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
02/10/2012 (08:59)	Isopropanol Hexachlorobutadiene	36.8 % 32.5 %	J, UJ UJ	SG-1 SG-2 SG-3 SG-4

Laboratory Control Sample Analysis

Laboratory control sample (LCS) recovery criteria requiring compound recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries that were less than 10 percent. Samples qualified due to LCS recovery deviations are tabulated below.

Table 5: Volatile Organics Analysis - Laboratory Control Sample Deviations

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples
Soil Vapor	Carbon Disulfide	117 %	61.8 % to 111 %	J	SG-1 SG-2 SG-4

Overall Data Assessment

Overall, the laboratory performed TO-15 volatile organic analyses in accordance with the requirements specified in the methods listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes with additional qualification. Qualification of sample data included blank analysis for four samples and the approximation of sample results for several compounds due to deviations from initial calibration, continuing calibration, and laboratory control sample criteria.

SECTION 3 - DATA USABILITY and PARCC EVALUATION

3.1 Data Usability

This section presents a summary of the usability of the analytical data and an evaluation of the PARCC parameters. Data usability was calculated as the percentage of data that was not qualified as rejected based on a significant deviation from established QA/QC criteria. Data usability which was calculated separately for each type of analysis is tabulated below.

Table 6: Data Usability and PARCC Evaluation - Data Usability

Parameter	Usability	Deviations
TO-15 Volatile Organics	100 %	None resulting in the rejection of data.

3.2 PARCC Evaluation

The following sections provide an evaluation of the analytical data with respect to the precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters.

3.2.1 Precision

Precision is measured through field duplicate samples, split samples, and laboratory duplicate samples. For this sampling program, none of the data were qualified for laboratory duplicate criteria deviations and none of the data were qualified for field duplicate criteria deviations.

3.2.2 Accuracy

Matrix spike sample, surrogate recovery, internal standard recovery, laboratory control samples, and calibration criteria indicate the accuracy of the data. For this sampling program, none of the analytical data were qualified for deviations from matrix spike recovery criteria; none of the data were qualified for surrogate recovery criteria deviations; none of the data were qualified for internal standard recovery criteria deviations; 1.23 percent of the data were qualified for laboratory control sample deviations; and 4.92 percent of the data were qualified for calibration criteria deviations.

3.2.3 Representativeness

Holding times, sample preservation, and blank analysis are indicators of the representativeness of the analytical data. For this investigation, none of the analytical data required qualification for holding time deviations and 1.64 percent of the analytical data required qualification for blank analysis deviations.

3.2.4 Comparability

Comparability is not compromised provided that the analytical methods did not change over time. A major component of comparability is the use of standard reference materials for calibration and QC. These standards are compared to other unknowns to verify their

concentrations. Since standard analytical methods and reporting procedures were consistently used by the laboratory, the comparability criteria for the analytical data were met.

3.2.5 Completeness

The percent usability or completeness of the data was determined to be 100 percent.

APPENDIX A

DATA VALIDATION CHECKLISTS

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I.	Part A: TO-15 VOA Analyses	2

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
1.0	**Data Completeness and Deliverables**			
1.1	Have any missing deliverables been received and added to the data package?		X	
2.0	**Cover Letter, Narrative, and Data Reporting Forms**			
2.1	Is the Lab. Narrative and Cover Page Present?	X		
2.2	Is Case Number contained in the Narrative?	X		
2.3	Are the following Data Reporting Forms present?			
	Analysis Data Sheet [Form I/Equivalent]	X		
	Tentatively Identified Compounds [Form I-TIC]	X		
	Blank Summary [Form IV/Equivalent]	X		
	Laboratory Control Sample Data Sheet [Form III/Equivalent]	X		
	GC/MS Instrument Performance Check and Mass Calibration [Form V/Equivalent]	X		
	Initial Calibration [Form VI/Equivalent]	X		
	Continuing Calibration [Form VII/Equivalent]	X		
	Internal Standard Area and RT Summary [Form VIII/Equivalent]	X		
	Canister Certification [Form IX/Equivalent]	X		
3.0	**Canister Receipt/Log-in Sheet**			
3.1	Do all info items agree with each sample?	X		
4.0	**Traffic Reports and Laboratory Narrative**			
4.1	Are the Traffic Report Forms present for all samples?	X		
5.0	**Holding Times**			
5.1	Have any VOA technical holding times of 30 days, determined from the date of sample collection to the date of analysis, been exceeded?		X	
6.0	**Leak Test Evaluation**			
6.1	Did the pressure test not vary by more than ± 13.8 kPa (± 2 psi) over the 24 hours period?	X		
7.0	**Canister Certification Form IX/Equivalent**			
7.1	Blank Analysis			
	Were the target analytes < the required detection limits specified in the task order?	X		
7.2	Is the canister certification form provided, and the associated canister sample identification included? When contamination, included contamination detected (all raw data), analyte and reference mass spectra.	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
8.0	**Laboratory Control Samples**			
8.1	Is an LCS Data Sheet [Form III/Equivalent] present and complete for each LCS?	X		
8.2	Was an LCS prepared (10 ppbv total scan, 0.1 ppbv SIM) and analyzed at the required frequency (once per 24 hour analytical sequence, and concurrently with the samples in the SDG)?	X		
8.3	Are there any transcription/calculation errors between the raw data and Form III/Equivalent?		X	
8.4	Is the % recovery within 70 – 130 % for each LCS target compound reported on Form III/Equivalent?		X	
8.5	Is the RT of each reported LCS compound within the windows established during the most recent valid calibration?	X		
8.6	Do the Internal Standards meet the requirements specified in Sections 18.1 and 18.2?	X		
9.0	**GC/MS Instrument Performance Check**			
9.1	Are the GC/MS Instrument Performance Check Forms [Form V/Equivalent] present for Bromofluorobenzene (BFB)?	X		
9.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the 50 ng BFB provided for each twenty-four hour shift?	X		
9.3	Has the instrument performance compound been analyzed for every twenty-four hours of sample analysis per instrument?	X		
9.4	Have the ion abundances been normalized to m/z 95?	X		
9.5	Have the ion abundance criteria been met for each instrument used?	X		
9.6	Are there any transcription/calculation errors between mass lists and Form Vs?		X	
9.7	Have the appropriate number of significant figures (two) been reported?	X		
9.8	Are the spectra of the mass calibration compound acceptable?	X		
10.0	**Performance Evaluation Sample (Optional)**			
10.1	Was a PE sample submitted from the Agency with each SDG?			X
10.2	Do the Internal Standards meet the requirements specified in Section 18.1 and 18.2?			X
11.0	**Laboratory Method Blanks**			
11.1	Is an Analysis Data Sheet [Form IV/Equivalent] present and complete for each method blank?	X		
11.2	Frequency of Analysis:			
	Has a method blank analysis been reported per instrument for each 24-hour analytical sequence?	X		
	Has a method blank been analyzed after the initial calibration or a valid calibration check standard, and before the LCS, prior to sample analysis?	X		
11.3	Is the chromatographic performance (baseline stability) for each instrument acceptable?	X		
11.4	Was the area response of each Internal Standard (IS) in the blank within ± 40 % of the mean area response of the IS of the most recent valid calibration?	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
11.5	Were the RTs of each IS within ± 0.33 min (20 sec.) between blanks and most recent valid calibration?	X		
12.0	**Blank Contamination**			
12.1	Do any method blanks have positive target and non-target VOA results?	X		
13.0	**Target Compound Analytes**			
13.1	Are the Organic Analysis Data Sheets [Form I/Equivalent], VOA chromatograms, and data system printouts present and complete with required header information for each of the following:			
	a. Samples?	X		
	b. Method blanks?	X		
	c. Laboratory Control Sample (LCS)?	X		
	d. Performance Evaluation Sample (PES)?	X		
13.2	Is the chromatographic performance acceptable with respect to:			
	a. Baseline stability?	X		
	b. Resolution?	X		
	c. Peak shape?	X		
	d. Full-scale graph (attenuation)?	X		
	e. Other?			X
13.3	Were any electropositive displacement (negative peaks) or unusual peaks seen?		X	
13.4	Is the sample component relative retention time (RRT) within ± 0.06 RRT units of the RRT of the standard component from the most recent continuing calibration?	X		
13.5	Was Nafion dryer used?			X
14.0	**Tentatively Identified Compounds (TIC)**			
14.1	Are all Tentatively Identified Compound Forms [Form I-TIC] present and are retention time, estimated concentration and "JN" qualifier listed corresponding to each TIC?			X
14.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following?			
	a. Samples			X
	b. Blanks			X
14.3	Are all ions present in the reference mass spectrum with a relative intensity greater than 10 % also present in the sample mass spectrum?			X
14.4	Do TIC and "best match" standard relative ion intensities agree within 20 %?			X
15.0	**Initial Calibration and System Performance [Form VI/Equivalent]**			
15.1	Were each GC/MS system calibrated at 5 concentrations that span the monitoring range of the interest in an initial calibration sequence to determine the sensitivity and the linearity of the GC/MS response for the target compounds?	X		
15.2	Was the same volume introduced into the trap consistently for all field and QC-sample analyses?	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
15.3	Was the area response (Y) at each calibration level within ± 40 % of the mean area response (mean Y) over the initial calibration range for each Internal Standard?	X		
	Did the laboratory tabulate the area response (Y) of the primary ions and the corresponding concentration for each compound and Internal Standard?	X		
15.4	Are the relative retention times (RRTs) for each of the target compounds at each calibration level within ± 0.06 RRT units of the mean relative retention time for the compound?	X		
15.5	Are all individual RRF and average RRFs ≥ 0.050?	X		
15.6	Are the response factors (RF) stable i.e., % Relative Standard Deviation (%RSD) ≤ 40.0 %?		X	
15.7	Are there any transcription/calculation errors in the reporting of average response factors (RRFs) or %RSDs?		X	
15.8	Are the RT shift for each Internal Standard (IS) at each calibration level within 20 seconds of the mean RT over the initial calibration range of each IS?	X		
16.0	**Daily Calibration (Form VII/Equivalent)**			
16.1	Are the daily Calibration Forms [Form VII/Equivalent] present and complete for the volatile fraction?	X		
16.2	Has the daily calibration standard (20 ppbv total scan, 0.1 ppbv SIM) been analyzed for every twenty-four hours of sample analysis per instrument after the BFB tuning analysis?	X		
16.3	Do any volatile compounds have a % Difference (%D) between the initial and daily RRFs which exceed the ± 30 % criteria?	X		
16.4	Are there any transcription/calculation errors in the reporting of the average response factors (RRF) or % difference (%D) between initial and daily RRFs?		X	
17.0	**Compound Quantitation and Reported Detection Limits**			
17.1	Are there any transcription/calculations errors in Form I results?		X	
17.2	Are the reported detection limits adjusted to reflect sample dilutions?	X		
17.3	Have any target compound concentrations exceeded the calibration range of the GC?		X	
17.4	Was more than one method of quantitation used to calculate sample results within a batch or 24-hour analytical sequence?		X	
17.5	Did the lab report the target compounds below CRQLs with the suffix "J"?			X
18.0	**Internal Standards (Form VIII/Equivalent)**			
18.1	Are the 3 internal standard areas [Form VIII] of every sample, LCS, PE, and blank within the upper and lower limits (+ 40 % to – 40 %) for each continuing calibration or 10 ppbv level of initial calibration?	X		
18.2	Are the internal standard retention times in each sample, LCS, PE, and blank within 20 seconds of the corresponding retention times in the associated calibration standard?	X		
19.0	**Mass Spectral Interpretation/Identification**			
19.1	Are the Organic Analysis Data Sheets present with required header information on each page, for each of the following:			
	a. Samples and/or fractions as appropriate?	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
	b. Laboratory Control Samples?	X		
	c. Blanks?	X		
19.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (quant reports) included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?	X		
	b. Laboratory Control Samples?	X		
	c. Blanks?	X		
19.3	Is chromatographic performance acceptable with respect to:			
	a. Baseline stability?	X		
	b. Resolution?	X		
	c. Peak shape?	X		
	d. Full-scale graph (attenuation)?	X		
	e. Other:			X
19.4	Are the lab-generated standard mass spectra of the identified compounds present for each sample?	X		
19.5	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	X		
19.6	Are all ions present in the reference standard mass spectrum at a relative intensity greater than 10 % also present in the sample mass spectrum?	X		
19.7	Do sample and reference standard relative ion intensities agree within ± 20 %?	X		
20.0	**Field Duplicates**			
15.1	Were any field duplicates submitted for VOA analysis?		X	

Data Usability Summary Report

Former NuHart Plastic Manufacturing Site
Brooklyn, New York

Samples Collected
February 2012 – November 2013

February 2014

EnviroAnalytics
Data Management and Validation Service

2638 Sunset Avenue
Utica, New York 13502

Data Usability Summary Report

Samples Collected
February 2012 – November 2013

Former NuHart Plastic Manufacturing Site
Brooklyn, New York

Prepared By:

EnviroAnalytics
Data Management and Validation Service
2638 Sunset Avenue
Utica, New York 13502

EXECUTIVE SUMMARY

This report addresses data quality for soil and water samples collected at the NuHart Plastic Manufacturing Site located in Brooklyn, New York. The samples were analyzed for volatile organics (VOCs), semivolatile organics (SVOCs), and inorganics (Metals) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Ecosystems Strategies, Inc. of Poughkeepsie, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

The inorganics analyses data have been determined to be usable for qualitative and quantitative purposes with the exception of Silver for one sample that was rejected due to matrix spike recovery deviations. Sample results for several analytes were also qualified based on deviations from initial and continuing calibration, matrix spike, and ICP serial dilution analysis criteria.

The volatile organics analyses data were determined to be usable for qualitative and quantitative purposes with the exception of 1.02 percent of the non-detected sample results for several compounds which were rejected due to deviations from continuing calibration, laboratory control sample, and internal standard recovery criteria. Sample results for several compounds were qualified based on deviations from blank analysis, initial calibration, continuing calibration, laboratory control sample, internal standard recovery, surrogate recovery, and matrix spike criteria.

The semivolatile organics analyses data were determined to be usable for qualitative and quantitative purposes with the exception of 13.39 percent of the non-detected sample results for several compounds which were rejected due to deviations from calibration, laboratory control sample, matrix spike, and surrogate recovery criteria. Sample results for several compounds were qualified based on deviations from initial calibration, continuing calibration, laboratory control sample, surrogate recovery, and matrix spike criteria.

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Appendices

Appendix A - Data Validation Checklists

SECTION 1 - INTRODUCTION

1.1 Introduction

This report addresses data quality for soil and water samples collected at the NuHart Plastic Manufacturing Site located in Brooklyn, New York. The samples were analyzed for volatile organics (VOCs), semivolatile organics (SVOCs), and inorganics (Metals) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Ecosystems Strategies, Inc. of Poughkeepsie, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut. The quantity and types of samples submitted for data validation are tabulated below.

Table 1: Introduction - Sample Summary Table

SDG#	Date Collected	Sample Matrix	Sample Identification	
			Client ID	Laboratory ID
12B0205	02/02/2012	Soil	MW-19 (10-12')	12B0205-01
12B0207	02/01/2012 – 02/02/2012	Soil/Water	SB-60	12B0207-01
			SB-61	12B0207-02
			SB-63	12B0207-03
			SB-67	12B0207-04
			SB-68	12B0207-05
			SB-69	12B0207-06
			SB-77A	12B0207-07
			SB-78A	12B0207-08
			Trip Blank (02/01/2012)	12B0207-09
			Trip Blank (02/02/2012)	12B0207-10
			Rinse Blank	12B0207-11
12B0504	02/10/2012 – 02/13/2012	Soil/Water	SB-63 14'	12B0504-01
			SB-71 14'	12B0504-02
			SB-60B 6-8'	12B0504-03
			SB-60B 8-10'	12B0504-04
			SB-60B 10-12'	12B0504-05
			Trip Blank	12B0504-06
12B0769	02/15/2012 – 02/16/2012	Soil/Water	MW-17 14'	12B0769-01
			MW-18 15'	12B0769-02
			SB-74 13'	12B0769-03
			SB-72 9'	12B0769-04
			SB-72 13'	12B0769-05
			SB-73 13.5'	12B0769-06
			MW-22 10-11	12B0769-07
			MW-22 12-14	12B0769-08
			Trip Blank	12B0769-09
12C0577	03/16/2012	Water	MW-10	12C0577-01
			MW-13	12C0577-02
			MW-18	12C0577-03
			MW-19	12C0577-04
			MW-22	12C0577-05
			Trip Blank	12C0577-06
			Rinse Blank	12C0577-07
12G0884	07/25/2012	Soil	MW-23	12G0884-01
			MW-24	12G0884-02
			MW-25	12G0884-03

SDG#	Date Collected	Sample Matrix	Sample Identification	
			Client ID	Laboratory ID
12I0856	09/24/2012	Soil/Water	MW-23	12I0856-01
			MW-24	12I0856-02
			Trip Blank	12I0856-03
			MW-26	12I0856-04
			MW-27	12I0856-05
12J0086	09/28/2012	Water	MW-27	12J0086-01
			Trip Blank	12J0086-02
13A0300	01/08/2013	Soil	MW-29	13A0300-01
13A0448	01/15/2013	Soil	MW-28	13A0448-01
13H0180	07/31/2013 – 08/01/2013	Soil	2SB-1/MW-34 (10-15')	13H0180-01
			2SB-1/MW-34 (15-20')	13H0180-02
			2SB-2 (0-5')	13H0180-03
			2SB-2 (10-15')	13H0180-04
			2SB-3 (10-15')	13H0180-05
			2SB-4 (0-5')	13H0180-06
			2SB-4 (10-15')	13H0180-07
			2SB-5 (10-15')	13H0180-08
			2SB-6 (10-15')	13H0180-09
			2SB-7 (10-15')	13H0180-10
			2SB-8 (10-15')	13H0180-11
			2SB-9/MW-35 (0-5')	13H0180-12
			2SB-9/MW-35 (10-15')	13H0180-13
			2SB-11 (10-15')	13H0180-14
			MW-30 (10-15')	13H0180-15
			MW-31 (10-15')	13H0180-16
			MW-32 (0-5')	13H0180-17
			MW-32 (10-15')	13H0180-18
			2SB-5A	13H0180-19
			2SB-1 (15-20')	13H0180-20
13H0697	08/16/2013	Water	MW-28	13H0697-01
			MW-29	13H0697-02
			MW-30	13H0697-03
			MW-31	13H0697-04
			MW-32	13H0697-05
			MW-34	13H0697-06
			MW-35	13H0697-07
			TB-1	13H0697-08
13K0968	11/25/2013	Soil/Water	2SB-12	13K0968-01
			2SB-13	13K0968-02
			2SB-14	13K0968-03
			2SB-15	13K0968-04
			MW-3	13K0968-05
			MW-34	13K0968-06

1.2 Analytical Methods

The samples were analyzed for volatile organics (VOCs), semivolatile organics (SVOCs), and inorganics (Metals) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies (2005 update). Laboratory analyses were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

1.3 Validation Protocols

Data validation is a process that involves the evaluation of analytical data against prescribed quality control criteria to determine the usefulness of the data. The analytical data addressed in this report were evaluated utilizing the quality control criteria presented in the following documents:

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-08-01, June 2008.
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, USEPA-540-R-10-011, January 2010.
- *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6 Revision #14, USEPA Region II, September 2006.
- *Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO5.3*, SOP No. HW-2, Revision #13, USEPA Region II, September 2006.
- *Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8260B*, SOP No. HW-24 Revision #2, USEPA Hazardous Waste Support Branch, August 2008.
- *Validating Semivolatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8270D*, SOP No. HW-22 Revision #4, USEPA Hazardous Waste Support Branch, August 2008.
- *Exhibit E of New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP)*, NYSDEC June 2005.

1.3.1 Inorganic Parameters

The validation of inorganics for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

1. Holding Times
2. Calibration
   a. Initial Calibration Verification
   b. Continuing Calibration Verification
3. Blank Analysis
4. ICP Interference Check Sample Analysis (ICP only)
5. Matrix Spike Analysis
6. Laboratory Duplicate Analysis
7. Laboratory Control Sample Analysis
8. ICP Serial Dilution Analysis (ICP only)
9. Furnace Atomic Absorption Analysis
10. Method of Standard Addition Results
11. Field Blanks

12. Element Quantification and Reported Detection Limits
13. Document Completeness
14. Overall Data Assessment

1.3.2 Organic Parameters

The validation of organic parameters for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

Volatile and Semivolatile Organics Analyses

1. Holding Times
2. GC/MS Instrument Tuning Criteria
3. Calibration
   a. Initial Calibration
   b. Continuing Calibration
4. Blank Analysis
5. Surrogate Recovery
6. Matrix Spike / Matrix Spike Duplicate Analysis
7. Reference Standard Analysis
8. Internal Standards Recovery
9. Compound Identification and Quantification
10. Field Duplicate Analysis
11. System Performance
12. Documentation Completeness
13. Overall Data Assessment

1.4 Data Qualifiers

The following qualifiers as specified in the guidance documents presented in Section 1.3 of this report have been used for this data validation.

U Indicates that the compound was analyzed for, but was not detected. The sample quantification limit is presented and adjusted for dilution. This qualifier is also used to signify that the detection limit of an analyte was raised due to blank contamination.

J Indicates that the result should be considered approximate. This qualifier is used when the data validation procedure identifies a deficiency in the data generation process.

UJ Indicates that the detection limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.

R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data are considered to be unusable for both qualitative and quantitative purposes.

The following sections of this document present a summary of the data validation process. Section 2 discusses data compliance with established QA/QC criteria and qualifications performed on the sample data. A discussion of the Precision, Accuracy, Representativeness, Comparability, and Completeness (PARCC) of the data and data usability are discussed in Section 3. The USEPA Region II Data Validation Checklists are presented in Appendix A.

SECTION 2 - DATA VALIDATION SUMMARY

This section presents a discussion of QA/QC parameter compliance with established criteria and the qualification of data performed when QA/QC parameter deviations were identified. When several deviations from established QA/QC criteria were observed, the final qualifier assigned to the data was based on the cumulative effect of the deviations.

2.1 Inorganics Analysis

Data validation was performed for fourteen soil samples, fourteen water samples, and one rinse blank sample for total inorganic parameters. The QA/QC parameters presented in Section 1.3.1 of this report were found to be within specified limits with the exception of the following:

Initial and Continuing Calibration Verification

The initial (ICV) and continuing (CCV) calibration standards are required to have recoveries between 90 and 110 percent. Analytes that exceeded these control limits required qualification. Detected and non-detected sample results were qualified as approximated (J, UJ) when recoveries were less than 90 percent, but were greater than 30 percent. Detected sample results were qualified as approximated (J) when recovers were greater than 110 percent, but less than 200 percent. The analytes that exceeded the recovery limits and the samples that required qualification are tabulated below.

Table 2: Inorganics Analysis - Initial and Continuing Calibration Deviations

Inorganic	ICV/CCV	Percent Recovery	Qualifier	Affected Samples
Potassium	ICV1 CCV1 CCV2 CCV3 CCV4 CCV5	89.7 % 89.5 % 89.5 % 89.4 % 88.8 % 87.8 %	J	MW-29

Matrix Spike Analysis

Matrix spike (MS) recovery criteria requiring spike recoveries to be between 75 and 125 percent were exceeded for several analytes. Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Detected results were rejected for analytes with spike recoveries greater than 200 percent. Qualification of sample data was not required when the non-spiked sample concentration was greater than four-times the spike solution concentration. Samples qualified due to MS recovery deviations are tabulated below.

Table 3: Inorganics Analysis - Matrix Spike Deviations

MS Sample ID	Inorganic	Percent Recovery	Qualifier	Affected Samples
SB-71 14’	Silver	38.8 %	UJ	SB-63 14’ SB-71 14’ SB-60B 6-8’

MS Sample ID	Inorganic	Percent Recovery	Qualifier	Affected Samples
MW-23	Silver	56.8 %	UJ	MW-23 MW-24 MW-25
MW-27	Silver	51.4 %	UJ	MW-26 MW-27
MW-29	Beryllium Silver	59.1 % 29.0 %	UJ UJ	MW-29
MW-28	Beryllium Manganese Silver	28.6 % 73.5 % 0 %	UJ J R	MW-28

ICP Serial Dilution Analysis

ICP serial dilution criteria require the percent difference (%D) between results of a non-diluted analysis and a four-fold dilution analysis to be less than 10 percent for analytes with a non-diluted concentration greater than 50 times the instrument detection limit (IDL). Analytes with %D values greater than 10 percent are qualified as approximated for samples with concentrations greater than 50 times the IDL. Analytes that exceeded ICP serial dilution criteria and the samples that required qualification are presented below.

Table 4: Inorganics Analysis - ICP Serial Dilution Deviations

Serial Dilution Sample ID	Inorganic	%D	Qualifier	Affected Samples
MW-13	Sodium	14.6 %	J	MW-13
MW-25	Iron	10.8 %	J	MW-23 MW-24 MW-25

The laboratory flagged the detected Iron results for samples SB-60, SB-61, SB-67, SB-69, SB-63 14', SB-71 14', SB-60B 6-8', MW-26, and MW-28 with an "E" qualifier which is normally used to indicate an ICP serial dilution deviation. The serial dilution sample associated with these samples was within control limits for Iron. The "E" qualifier for Iron for these samples was removed due to these deviations.

Overall Data Assessment

Overall, the laboratory performed inorganics analyses in accordance with the requirements specified in the methods listed in Section 1.2 of this report. These data have been determined to be usable for qualitative and quantitative purposes with the exception of Silver for one sample that was rejected due to matrix spike recovery deviations. Sample results for several analytes were also qualified based on deviations from initial and continuing calibration, matrix spike, and ICP serial dilution analysis criteria.

2.2 Volatiles Analysis

Data validation was performed for thirty-nine soil samples, fifteen water samples, two rinse blank samples, and eight trip blank samples. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

Blank Analysis

The method blanks contained detectable concentrations of several target compounds. Blank action levels were calculated at ten times the blank concentrations for the common laboratory contaminants and five times for other target compounds. Detected sample results, which were less than the blank action levels were qualified with a "U" in the associated samples. Results that were detected below the contract required detection limit (CRDL) were raised to the CRDL and qualified with a "U" qualifier. The "U" qualifier indicates that the volatile organic was analyzed for but was not detected above the CRDL. Samples qualified for blank contamination are tabulated below.

Table 5: Volatile Organics Analysis - Blank Analysis Deviations

Blank Matrix	Date Analyzed	Compound	Blank Action Level[1]	Associated Samples	Qualified Sample Result
Soil	02/11/2012	Methylene Chloride	61 µg/Kg	MW-19 (10-12')	1200 U µg/Kg
Water	02/08/2012	Naphthalene	1.6 µg/L	Trip Blank (02/01/2012)	10 U µg/L
Soil	02/13/2012	Methylene Chloride	34 µg/Kg	SB-60 SB-61 SB-69	220 U µg/Kg 120 U µg/Kg 12 U µg/Kg
Water BB20785	02/21/2012	Acetone Methylene Chloride	180 µg/L 110 µg/L	Trip Blank	10 U µg/L 10 U µg/L
Soil BB20827	02/24/2012	Acetone	52 µg/Kg	SB-60B 6-8'	2400 U µg/Kg
Soil BB20827	02/24/2012	Methylene Chloride	42 µg/Kg	SB-63 14' SB-60B 14'	25 U µg/Kg 1100 U µg/Kg
Water BB21128	02/29/2012	Acetone Methylene Chloride	110 µg/L 130 µg/L	Trip Blank	10 U µg/L 26 U µg/L
Water BC20720	03/19/2012	Acetone	41 µg/L	MW-22 Trip Blank Rinse Blank	10 U µg/L 10 U µg/L 10 U µg/L
Water BC20720	03/19/2012	Methylene Chloride	60 µg/L	MW-10 MW-18 MW-22 Trip Blank Rinse Blank	10 U µg/L 10 U µg/L 10 U µg/L 10 U µg/L 10 U µg/L
Soil BG21224	07/31/2012	Methylene Chloride	33 µg/Kg	MW-23 MW-24 MW-25	12 U µg/Kg 13 U µg/Kg 1100 U µg/Kg
Soil BI21179	09/28/2012	Acetone	98 µg/Kg	MW-26 MW-27	19 U µg/Kg 46 U µg/Kg
Soil BI21179	09/28/2012	Methylene Chloride	58 µg/Kg	MW-26 MW-27	13 U µg/Kg 13 U µg/Kg
Soil BH30460	08/09/2013	Acetone	45 µg/Kg	2SB-2 (0-5') 2SB-4 (10-15') 2SB-6 (10-15') 2SB-7 (10-15')	4.9 U µg/Kg 3.4 U µg/Kg 16 U µg/Kg 5.0 U µg/Kg

Blank Matrix	Date Analyzed	Compound	Blank Action Level[1]	Associated Samples	Qualified Sample Result
Soil BH30478	08/11/2013	Acetone	34 µg/Kg	MW-31 (10-15') MW-32 (0-5') MW-32 (10-15')	5.5 U µg/Kg 5.0 U µg/Kg 15 U µg/Kg
Water BH31119	08/23/2013	Acetone	60 µg/L	MW-32	5.0 U µg/L
Soil BL30451	12/07/2013	Methylene Chloride	26 µg/Kg	2SB-13 2SB-14 2SB-15	10 U µg/Kg 10 U µg/Kg 10 U µg/Kg

1. Blank action level corrected for sample dilution and percent solids for each sample.

Initial Calibration

The initial calibration relative standard deviation (%RSD) limit, which requires the %RSD to be less than 30 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %RSD criteria were exceeded. Samples requiring qualification due to these deviations are tabulated below.

Table 6: Volatile Organics Analysis - Initial Calibration Deviations

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
02/03/2012 VOA No. 3	Acetone	37.13 %	UJ	Trip Blank (02/01/2012) Trip Blank (02/02/2012) Rinse Blank
02/17/2012 GCMS-VOA4	Bromobenzene	40.09 %	UJ	Trip Blank
03/14/2012 VOA No. 1	Acetone	37.06 %	UJ	MW-10 MW-18 MW-22 Trip Blank Rinse Blank
09/20/2012 MSVOA 6	1,4-Dioxane Naphthalene	64.56 % 42.33 %	UJ J, UJ	MW-23 MW-24 Trip Blank MW-26 MW-27 Trip Blank
01/18/2013 VOA No. 1	Methyl tert-Butyl Ether	38.31 %	UJ	MW-28
08/06/2013 VOA No. 1	Methylene Chloride Acetone	42.00 % 43.87 %	UJ UJ	2SB-2 (10-15') 2SB-11 (10-15') MW-30 (10-15') MW-31 (10-15') MW-32 (0-5') MW-32 (10-15') 2SB-5A 2SB-1 (15-20')

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
08/13/2013 VOA No. 5	Methylene Chloride Acetone	30.75 % 39.66 %	UJ UJ	MW-28 MW-29 MW-30 MW-31 MW-32 MW-34 MW-35 TB-1
11/26/2013 GCMS-VOA4	Bromomethane Acetone	34.47 % 46.22 %	UJ J, UJ	2SB-12 MW-3 MW-34

Continuing Calibration

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 25 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Non-detected results were rejected (R) for compounds with %D values greater than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

Table 7: Volatile Organics Analysis - Continuing Calibration Deviations

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
02/11/2012 (02:39) VOA No. 5	Dichlorodifluoromethane Chloromethane	42.5 % 30.8 %	UJ UJ	MW-19 (10-12')
02/08/2012 (10:40) MS VOA 3	Methylene Chloride Acetone 2-Butanone 2,2-Dichloropropane	32.8 % 43.0 % 26.9 % 26.2 %	UJ UJ UJ UJ	Trip Blank (02/01/2012) Trip Blank (02/02/2012) Rinse Blank
02/13/2012 (11:18) MS VOA No. 5	Methylene Chloride Acetone	31.0 % 25.6 %	J, UJ J, UJ	SB-60 SB-61 SB-67 SB-69
02/24/2012 (11:21) MS VOA 2	1,3,5-Trimethylbenzene	36.9 %	J, UJ	SB-63 14' SB-71 14' SB-60B 6-8'
02/29/2012 (10:39) MS VOA No. 5	Dichlorodifluoromethane Chloromethane	25.4 % 42.8 %	UJ UJ	Trip Blank
03/19/2012 (10:05) VOA No. 1	Acetone	39.3 %	UJ	MW-10 MW-18 MW-22 Trip Blank Rinse Blank
07/31/2012 (08:51) MS VOA 2	Acetone 2-Butanone	29.2 % 35.2 %	J, UJ UJ	MW-23 MW-24 MW-25

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
09/29/2012 (01:04) VOA No. 6	Dichlorodifluoromethane Freon-113 Acetone 1,4-Dioxane	25.8 % 26.7 % 25.4 % 50.0 %	UJ UJ UJ UJ	MW-26 MW-27
10/01/2012 (11:27) VOA No. 6	Freon-113	25.6 %	UJ	MW-23 MW-24 Trip Blank
10/05/2012 (09:12) VOA No. 6	Dichlorodifluoromethane 1,4-Dioxane	25.7 % 100.0 %	UJ R	MW-27 Trip Blank
01/23/2013 (12:37) VOA No. 1	Chloroethane Methyl tert-Butyl Ether	37.3 % 40.3 %	UJ UJ	MW-28
08/11/2013 (11:23) VOA No. 1	Chloromethane Methylene Chloride Methyl tert-Butyl Ether 1,1,1-Trichloroethane Carbon Tetrachloride	35.4 % 45.3 % 27.3 % 26.0 % 27.6 %	UJ UJ UJ UJ UJ	2SB-2 (10-15') 2SB-11 (10-15') MW-30 (10-15') MW-31 (10-15') MW-32 (0-5') MW-32 (10-15') 2SB-5A 2SB-1 (15-20')
08/23/2013 (07:46) VOA No. 5	Bromomethane Acetone Vinyl Acetate 2-Butanone 1,4-Dioxane	26.1 % 38.2 % 33.2 % 60.0 % 91.3 %	UJ UJ UJ UJ R	MW-28 MW-29 MW-30 MW-31 MW-32 MW-34
08/26/2013 (09:04) VOA No. 5	Trichlorofluoromethane Methylene Chloride 2-Butanone 1,4-Dioxane	27.1 % 25.4 % 38.5 % 91.3 %	UJ UJ UJ R	MW-35 TB-1
12/06/2013 (02:35) VOA No. 4	Acetone	33.3 %	UJ	MW-3 MW-34
12/09/2013 (10:33) VOA No. 4	Acetone	45.1 %	J	2SB-12
12/07/2013 (12:06) VOA No. 5	Chloromethane Vinyl Chloride Bromomethane Chloroethane Freon-113 1,1-Dichloroethylene	30.4 % 37.1 % 114.6 % 67.2 % 64.2 % 41.9 %	UJ UJ R UJ UJ UJ	2SB-13 2SB-14 2SB-15

Laboratory Control Sample Analysis

Laboratory control sample (LCS) recovery criteria requiring recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample data included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries that were less than 10 percent. Samples qualified due to LCS recovery deviations are tabulated below.

Table 8: Volatile Organics Analysis - Laboratory Control Sample Deviations

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples
Soil	1,4-Dioxane	0 %	70 % to 130 %	R	MW-19 (10-12')
Soil BB20511	1,4 Dioxane Acetone	0 %/0 % 62.4 %/71.1 %	70 % to 130 % 70 % to 130 %	R J	SB-60 SB-61 SB-67 SB-69
Soil BB20952	1,3,5-Trimethylbenzene 1,4-Dioxane	53.6 %/50.6 % 0 %/0 %	69.7 % to 127 % 70 % to 130 %	J, UJ R	SB-63 14' SB-71 14' SB-60B 6-8'
Water BC20720	Acetone	46.4 %/49.6 %	70 % to 130 %	J, UJ	MW-10 MW-18 MW-22 Trip Blank Rinse Blank
Soil BG21224	Acetone Vinyl Acetate	61.2 %/62.1 % 52.9 %/56.4 %	70 % to 130 % 70 % to 130 %	J, UJ UJ	MW-23 MW-24 MW-25
Soil BI21179	Vinyl Acetate	22.9 %/22.9 %	70 % to 130 %	UJ	MW-26 MW-27
Water BJ20076	Vinyl Acetate	44.8 %/47.9 %	70 % to 130 %	UJ	MW-23 MW-24 Trip Blank
Water BJ20317	Vinyl Acetate	46.2 %/42.7 %	70 % to 130 %	UJ	MW-27 Trip Blank
Soil BA30782	1.4-Dioxane	63 %/0 %	10 % to 265 %	R	MW-29
Soil BH30478	1,4-Dioxane Methylene Chloride	7.72 %/9.26 % 51.1 %/54.0 %	10 % to 265 % 55 % to 143 %	R UJ	2SB-2 (10-15') 2SB-11 (10-15') MW-30 (10-15') MW-31 (10-15') MW-32 (0-5') MW-32 (10-15') 2SB-5A 2SB-1 (15-20')
Water BH31199	2-Chlorotoluene 4-Chlorotoluene Bromobenzene Toluene	78.6 %/83.6 % 82.0 %/85.2 % 82.1 %/86.9 % 87.8 %/92.8 %	82 % to 117 % 84 % to 118 % 85 % to 117 % 88 % to 113 %	UJ UJ UJ UJ	MW-35 TB-1

Matrix Spike Recovery

Matrix spike/matrix spike duplicate (MS/MSD) recovery criteria requiring compound recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries less than 10 percent. Samples qualified due to MS/MSD recovery deviations are tabulated below.

Table 9: Volatile Organics Analysis - MS/MSD Analysis Deviations

MS/MSD Sample ID	Compound	Percent Recovery (MS/MSD)	Control Limits	Qualifier	Affected Samples
MW-22	Acetone Chloromethane	39.4 %/46.3 % 56.6 %/64.3 %	70 % to 130 % 64 % to 111 %	UJ UJ	MW-10 MW-18 MW-22
MW-24	Acetone trans-1,3-Dichloropropylene Vinyl Acetate	68.4 %/71.7 % 74.7 %/76.2 % 32.5 %/31.7 %	70 % to 130 % 74.9 % to 136 % 70 % to 130 %	UJ UJ UJ	MW-23 MW-24
2SB-1/MW-34 (10-15')	cis-1,2-Dichloroethylene n-Propylbenzene p-Isopropyltoluene Vinyl Acetate	26.1 % 65.3 % 65.4 % 3.46 %	51 % to 128 % 70 % to 130 % 70 % to 130 % 10 % to 62 %	J, UJ UJ UJ UJ	2SB-1/MW-34 (10-15') 2SB-1/MW-34 (15-20') 2SB-2 (0-5') 2SB-3 (10-15') 2SB-4 (0-5') 2SB-4 (10-15') 2SB-5 (10-15') 2SB-6 (10-15') 2SB-7 (10-15') 2SB-8 (10-15') 2SB-9/MW-35 (0-5') 2SB-9/MW-35 (10-15')
2SB-1 (15-20')	1,1-Dichloroethylene 1,2-Dichloropropane 1,4-Dioxane cis-1,2-Dichloroethylene n-Propylbenzene o-Xylene p- & m- Xylenes p-Isopropyltoluene	48.5 % 57.0 % 7.50 % 0 % 46.0 % 64.3 % 58.9 % 50.5 %	50 % to 138 % 58 % to 126 % 10 % to 249 % 51 % to 128 % 70 % to 130 % 70 % to 130 % 70 % to 130 % 70 % to 130 %	UJ UJ UJ J, UJ UJ UJ UJ UJ	2SB-2 (10-15') 2SB-11 (10-15') MW-30 (10-15') MW-31 (10-15') MW-32 (0-5') MW-32 (10-15') 2SB-5A 2SB-1 (15-20')

Surrogate Recovery

Surrogate compounds are added to the samples prior to sample preparation to evaluate the efficiency of the sample preparation procedures. The data validation guidelines require the surrogate compounds to have percent recovery values within the prescribed control limits. When one or more of the surrogate compounds exceed the recovery limits the associated sample data require qualification. Samples that required qualification for surrogate compound deficiencies are tabulated below.

Table 10: Volatile Organics Analysis - Surrogate Compound Deviations

Sample ID	Surrogate Compound	Surrogate Recovery	Control Limits	Qualifier	Affected Compounds
SB-67	p-Bromofluorobenzene Toluene-d8	163 % 160 %	63.5 % to 145 % 86.6 % to 116 %	J	All Detected Compounds
SB-61	p-Bromofluorobenzene Toluene-d8	161 % 117 %	63.5 % to 145 % 86.6 % to 116 %	J	All Detected Compounds
SB-60	p-Bromofluorobenzene Toluene-d8	167 % 136 %	63.5 % to 145 % 86.6 % to 116 %	J	All Detected Compounds
SB-71 14'	p-Bromofluorobenzene Toluene-d8	309 % 158 %	63.5 % to 145 % 86.6 % to 116 %	J	All Detected Compounds

Internal Standards Recovery

The internal standard areas exceeded recovery limits for several samples. Qualification of sample results included the approximation of results when recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 25 percent. Samples qualified due to internal standard recovery deviations are tabulated below.

Table 11: Volatile Organics Analysis - Internal Standard Deviations

Sample ID	Internal Standard	Percent Recovery	Affected Compounds	Qualifier
MW-26	1,2-Dichlorobenzene-d4	16.3 %	Bromoform	R
			1,1,2,2-Tetrachloroethane	R
			1,2,3-Trichloropropane	R
			Isopropylbenzene	J
			Bromobenzene	R
			n-Propylbenzene	J
			2-Chlorotoluene	R
			4-Chlorotoluene	R
			tert-Butylbenzene	R
			1,3,5-Trimethylbenzene	R
			1,2,4-Trimethylbenzene	R
			sec-Butylbenzene	J
			1,3-Dichlorobenzene	R
			1,4-Dichlorobenzene	J
			1,2-Dichlorobenzene	J
			p-Isopropyltoluene	J
			n-Butylbenzene	J
			1,2-Dibromo-3-chloropropane	R
			1,2,4-Trichlorobenzene	R
			Naphthalene	J
			Hexachloro-1,3-Butadiene	R
			1,2,3-Trichlorobenzene	J

Sample Reporting Limits

The reporting limit for Acetone for sample MW-25 was misreported without correcting the quantification limit for the sample dilution. The laboratory reported a non-detected result with a quantification limit of 11 µg/Kg. The correct quantification limit for this sample is 1100 µg/Kg.

Sample Dilution

The Trichloroethylene concentration for 2SB-1 (15-20') exceeded the linear concentration range of the instrumentation with a result of 450 E µg/Kg. The sample was not reanalyzed at a secondary dilution to properly quantify the Trichloroethylene concentration. Due to this deviation the reported Trichloroethylene concentration for sample 2SB-1 (15-20') has been qualified as approximated (J).

The Acetone concentration for 2SB-14 exceeded the linear concentration range of the instrumentation with a result of 650 E µg/Kg. The sample was not reanalyzed at a

secondary dilution to properly quantify the Acetone concentration. Due to this deviation the reported Acetone concentration for sample 2SB-14 has been qualified as approximated (J).

Overall Data Assessment

Overall, the laboratory performed volatile organics analyses in accordance with the requirements specified in the method listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes with the exception of 1.02 percent of the non-detected sample results for several compounds which were rejected due to deviations from continuing calibration, laboratory control sample, and internal standard recovery criteria. Sample results for several compounds were qualified based on deviations from blank analysis, initial calibration, continuing calibration, laboratory control sample, internal standard recovery, surrogate recovery, and matrix spike criteria.

2.3 Semivolatiles Analysis

Data validation was performed for forty-nine soil samples, seventeen water samples, and two rinse blank samples. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

Initial Calibration

The initial calibration relative standard deviation (%RSD) limit, which requires the %RSD to be less than 30 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %RSD criteria were exceeded. Samples requiring qualification due to these deviations are tabulated below.

Table 12: Semivolatile Organics Analysis - Initial Calibration Deviations

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
02/08/2012 GC MS BNA 3	Hexachlorocyclopentadiene 2,4-Dinitrophenol	46.74 % 31.01 %	UJ UJ	MW-19 (10-12') SB-60 SB-61 SB-63 SB-67 SB-68 SB-69 SB-77A SB-78A Rinse Blank
02/15/2012 GC MS BNA #3	Hexachlorocyclopentadiene Fluorene Chrysene	46.19 % 34.86 % 32.41 %	UJ UJ UJ	SB-63 14' SB-60B 6-8' SB-60B 8-10' SB-60B 10-12' SB-71 14'

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
02/24/2012 BNA #1	Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene	31.0 % 46.79 %	UJ UJ	MW-18 15' SB-74 13' SB-72 13' MW-17 14' SB-72 9' SB-73 13.5' MW-22 10-11 MW-22 12-14 MW-10 MW-13 MW-18 MW-19 MW-22 Rinse Blank
10/02/2012 BNA #1	Hexachlorocyclopentadiene 2,4-Dinitrophenol	64.14 % 30.97 %	UJ UJ	MW-23 MW-24 MW-26 MW-27
09/27/2012 BNA #4	Hexachlorocyclopentadiene 2,4-Dinitrophenol 4-Nitrophenol 4-Nitroaniline 4,6-Dinitro-2-methylphenol	76.61 % 45.54 % 26.83 % 42.38 % 48.78 %	UJ UJ UJ UJ UJ	MW-27
01/04/2013 BNA #5	2,4-Dinitrophenol	33.01 %	UJ	MW-29
07/03/2013 BNA #1	Hexachlorocyclopentadiene 2,4-Dinitrophenol	37.37 % 40.58 %	UJ UJ	2SB-1/MW-34 (10-15') 2SB-1/MW-34 (15-20') 2SB-2 (0-5') 2SB-2 (10-15') 2SB-3 (10-15') 2SB-4 (0-5') 2SB-4 (10-15') 2SB-5 (10-15') 2SB-6 (10-15') 2SB-7 (10-15') 2SB-8 (10-15') 2SB-9/MW-35 (0-5') 2SB-9/MW-35 (10-15') 2SB-11 (10-15') MW-30 (10-15') MW-31 (10-15') MW-32 (0-5') MW-32 (10-15') 2SB-5A 2SB-1 (15-20')
08/20/2013 BNA #2	Hexachlorocyclopentadiene	49.33 %	UJ	MW-28 MW-29 MW-30 MW-31 MW-32 MW-34 MW-35
11/17/2013 BNA #2	Hexachlorocyclopentadiene 2,4-Dinitrophenol	43.44 % 48.90 %	UJ UJ	MW-3 MW-34

Continuing Calibration

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 25 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

Table 13: Semivolatile Organics Analysis - Continuing Calibration Deviations

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
02/10/2012 (10:19) GC MS BNA #3	Pyridine	704.2 %	R	MW-19 (10-12') SB-67 SB-68 SB-69
02/09/2012 (10:20) GC MS BNA #3	Pyridine 4-Chloroaniline	43.2 % 30.3 %	UJ UJ	SB-60 SB-61 SB-63 SB-77A SB-78A
02/29/2012 (10:13) GC MS BNA #3	2,4-Dinitrophenol	34.8 %	UJ	SB-71 14'
03/05/2012 (9:57) BNA #1	4-Chloroaniline Benzo(g,h,i)perylene	30.5 % 34.4 %	UJ UJ	MW-18 15' SB-74 13' SB-72 13'
03/06/2012 (10:23) BNA #1	4-Chloroaniline 3,3'-Dichlorobenzidine Chrysene	26.7 % 34.1 % 25.8 %	UJ UJ UJ	MW-17 14' SB-72 9' SB-73 13.5' MW-22 10-11 MW-22 12-14
03/20/2012 (09:28) BNA #1	Bis(2-ethylhexyl)phthalate Benzo(a)anthracene Chrysene Benzo(g,h,i)perylene	27.9 % 29.7 % 33.5 % 51.6 %	J, UJ UJ UJ UJ	MW-10 MW-13 MW-18 MW-19 MW-22 Rinse Blank
10/02/2012 (06:55) BNA #1	Pentachlorophenol	33.0 %	UJ	MW-23 MW-24 MW-27
10/03/2012 (10:24) BNA #1	4-Chloroaniline Hexachlorocyclopentadiene 3,3'-Dichlorobenzidine	40.9 % 43.6 % 27.0 %	UJ UJ UJ	MW-26
10/04/2012 (08:18) BNA #4	4-Chloroaniline Hexachlorocyclopentadiene 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol Dibenz(a,h)anthracene Benzo(g,h,i)perylene	42.0 % 288.9 % 348.0 % 283.3 % 64.0 % 85.1 %	UJ R R R UJ UJ	MW-27
01/15/2013 (10:28) BNA #5	Aniline 4-Chloroaniline 3-Nitroaniline 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	114.4 % 109.6 % 123.5 % 71.6 % 38.5 %	R R R UJ UJ	MW-29

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
01/22/2013 (10:43) BNA #1	N-Nitrosodimethylamine Pyridine Hexachlorocyclopentadiene 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	25.2 % 40.3 % 44.6 % 52.4 % 38.9 %	UJ UJ UJ UJ UJ	MW-28
08/08/2013 (09:14) BNA #1	Pyridine 4-Chloroaniline Hexachlorocyclopentadiene 3-Nitroaniline 4-Nitroaniline 4,6-Dinitro-2-methylphenol	52.9 % 34.2 % 56.7 % 33.2 % 29.3 % 31.0 %	UJ UJ UJ UJ UJ UJ	2SB-1/MW-34 (15-20')
08/08/2013 (04:16) BNA #1	Pyridine Isophorone 4-Chloroaniline Hexachlorocyclopentadiene 3-Nitroaniline 4-Nitrophenol 4-Nitroaniline 4,6-Dinitro-2-methylphenol Benzyl butyl phthalate Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	66.9 % 30.4 % 50.4 % 25.2 % 50.5 % 48.3 % 49.5 % 44.8 % 28.5 % 30.2 % 29.1 % 27.8 %	UJ UJ UJ UJ UJ UJ UJ UJ UJ J, UJ UJ J, UJ	2SB-2 (0-5') 2SB-2 (10-15') 2SB-3 (10-15') 2SB-4 (0-5') 2SB-4 (10-15') 2SB-5 (10-15') 2SB-6 (10-15') 2SB-7 (10-15') 2SB-8 (10-15') 2SB-9/MW-35 (0-5') 2SB-9/MW-35 (10-15') 2SB-11 (10-15') MW-30 (10-15') MW-31 (10-15') MW-32 (0-5') MW-32 (10-15') 2SB-5A 2SB-1 (15-20')
08/09/2013 (09:51) BNA #1	Hexachlorocyclopentadiene 3-Nitroaniline	55.9 % 27.1 %	UJ UJ	2SB-1/MW-34 (10-15')
08/20/2013 (03:10) BNA #2	Hexachlorocyclopentadiene	30.0 %	UJ	MW-28 MW-29 MW-30 MW-31 MW-32 MW-34 MW-35
12/02/2013 (09:00) BNA #2	Bis(2-chloroethyl) ether Bis(2-chloroisopropyl) ether N-Nitroso-di-n-propylamine Nitrobenzene Hexachlorocyclopentadiene 4-Chlorophenyl phenyl ether	34.6 % 70.7 % 60.1 % 46.8 % 27.6 % 28.4 %	UJ UJ UJ UJ UJ UJ	MW-3
12/04/2013 (09:06) BNA #2	Bis(2-chloroisopropyl) ether N-Nitroso-di-n-propylamine Nitrobenzene 4-Chloroaniline Hexachlorocyclopentadiene Pentachlorophenol	52.0 % 55.6 % 40.2 % 71.6 % 35.1 % 25.2 %	UJ UJ UJ UJ UJ UJ	MW-34

Laboratory Control Sample Analysis

Laboratory control sample (LCS) recovery criteria requiring compound recoveries to be within laboratory generated control limits were exceeded for several compounds.

Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries that were less than 10 percent. Samples qualified due to LCS recovery deviations are tabulated below.

Table 14: Semivolatile Organics Analysis - Laboratory Control Sample Deviations

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples
Soil BC20056	N-Nitrosodimethylamine Pyridine	8.84 % 6.72 %	10 % to 142 % 10 % to 122 %	R R	MW-17 14' MW-18 15'
Water BJ20230	Hexachlorocyclopentadiene	0 %/13.8 %	30 % to 140 %	R	MW-27
Soil BH30274	2,4-Dinitrophenol	9.98 %/23.2 %	10 % to 151 %	R	2SB-1/MW-34 (10-15') 2SB-1/MW-34 (15-20') 2SB-2 (0-5') 2SB-2 (10-15') 2SB-3 (10-15') 2SB-4 (0-5') 2SB-4 (10-15') 2SB-5 (10-15') 2SB-6 (10-15') 2SB-7 (10-15') 2SB-8 (10-15') 2SB-9/MW-35 (0-5') 2SB-9/MW-35 (10-15') 2SB-11 (10-15') MW-30 (10-15') MW-31 (10-15') MW-32 (0-5') MW-32 (10-15') 2SB-5A
Soil BH30341	Hexachlorocyclopentadiene	9.86 %	10 % to 122 %	UJ	2SB-1 (15-20')
Soil BL30013	Hexachlorocyclopentadiene 4-Nitrophenol	10.4 %/9.90 % 30.3 %/8.46 %	10 % to 101 % 10 % to 55 %	R R	MW-3 MW-34

Matrix Spike Recovery

Matrix spike/matrix spike duplicate (MS/MSD) recovery criteria requiring compound recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries less than 10 percent. Samples qualified due to MS/MSD recovery deviations are tabulated below.

Table 15: Semivolatile Organics Analysis - MS/MSD Analysis Deviations

MS/MSD Sample ID	Compound	Percent Recovery (MS/MSD)	Control Limits	Qualifier	Affected Samples
SB-69	4,6-Dinitro-2-methylphenol	0 %/45.5 %	10 % to 122 %	R	SB-68 SB-61 SB-63 SB-67 SB-68 SB-69 SB-77A SB-78A
MW-17 14’	All Compounds	Less than 10 %	10 % to 180 %	J, R	MW-17 14’ MW-18 15’ SB-74 13’ SB-72 9’ SB-72 13’ SB-73 13.5’ MW-22 10-11 MW-22 12-14
MW-28	1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,3-Dichlorobenzene Hexachlorocyclopentadiene Hexachloroethane	19.4 %/18.5 % 17.6 %/17.6 % 16.5 %/15.4 % 7.98 %/0 % 13.2 %/12.6 %	22.8 % to 114 % 19.8 % to 121 % 20.6 % to 119 % 10 % to 122 % 20.2 % to 114 %	UJ UJ UJ R UJ	MW-28
2SB-1/MW-34 (10-15’)	Pyridine	19/0 %	21 % to 140 %	R	2SB-1/MW-34 (10-15') 2SB-1/MW-34 (15-20') 2SB-2 (0-5') 2SB-2 (10-15') 2SB-3 (10-15') 2SB-4 (0-5') 2SB-4 (10-15') 2SB-5 (10-15') 2SB-6 (10-15') 2SB-7 (10-15') 2SB-8 (10-15') 2SB-9/MW-35 (0-5') 2SB-9/MW-35 (10-15') 2SB-11 (10-15') MW-30 (10-15') MW-31 (10-15') MW-32 (0-5') MW-32 (10-15') 2SB-5A
2SB-1 (15-20’)	Hexachlorocyclopentadiene	0 %/11.4 %	10 % to 122 %	R	2SB-1 (15-20')

The MS/MSD analysis of sample MW-19 (10-12’) exhibited recoveries that were outside of prescribed limits for a majority of the compounds due to the sample dilution required to properly quantify the detected concentrations of Benzyl butyl phthalate and 2-Methylnaphthalene. Sample qualification was not required due to this deviation because the matrix spike concentrations were diluted below the linear calibration range of the instrumentation.

The MS/MSD analysis of sample MW-23 exhibited recoveries that were outside of prescribed limits for a majority of the compounds due to the sample dilution required to

properly quantify the detected concentrations of bis(2-ethylhexyl)phthalate. Sample qualification was not required due to this deviation because the matrix spike concentrations were diluted below the linear calibration range of the instrumentation.

Sample Dilution

The diluted sample analysis of MW-25 exceeded the linear calibration range of the instrumentation for bis(2-ethylhexyl)phthalate with a sample concentration of 14,000,000 DE µg/Kg. The bis(2-ethylhexyl)phthalate result for sample MW-25 was qualified as approximated (J) because the sample was not re-analyzed with sufficient dilution to properly quantify the bis(2-ethylhexyl)phthalate concentration.

The initial analysis of MW-27 exceeded the linear calibration range of the instrument for bis(2-ethylhexyl)phthalate with a concentration of 14,600 E µg/Kg. The laboratory re-analyzed the sample with a higher dilution factor, but diluted the bis(2-ethylhexyl)phthalate concentration below the level of detection. Based on this deviation, the bis(2-ethylhexyl)phthalate result should be reported at 14,600 J µg/Kg for sample MW-27.

Surrogate Recovery

Surrogate compounds are added to the samples prior to sample preparation to evaluate the efficiency of the sample preparation procedures. The data validation guidelines require the surrogate compounds to have percent recovery values within the prescribed control limits. When one or more of the surrogate compounds exceed the recovery limits the associated sample data require qualification. Samples that required qualification for surrogate compound deficiencies are tabulated below.

Table 16: Semivolatile Organics Analysis - Surrogate Compound Deviations

Sample ID	Surrogate Compound	Surrogate Recovery	Control Limits	Qualifier	Affected Compounds
MW-30	Phenol-d5	7.92 %	10 % to 117 %	R	Benzyl Alcohol
MW-31	Phenol-d5	9.35 %	10 % to 117 %	R	4-Chloro-3-methylphenol
MW-32	Phenol-d5	5.05 %	10 % to 117 %	R	2-Chlorophenol
MW-32	2-Fluorophenol	9.93 %	10 % to 52 %	R	2,4-Dichlorophenol
MW-34	Phenol-d5	9.08 %	10 % to 117 %	R	2,4-Dimethylphenol
MW-35	Phenol-d5	9.48 %	10 % to 117 %	R	4,6-Dinitro-2-methylphenol
				R	2,4-Dinitrophenol
				R	2-Methylphenol
				R	3- & 4-Methylphenols
				R	4-Nitrophenol
				R	2-Nitrophenol
				R	Phenol
				R	2,4,5-Trichlorophenol
				R	2,4,6-Trichlorophenol

The surrogate recoveries for several of the soil samples were outside of prescribed limits due to the sample dilution required to properly quantify the detected concentrations of target compounds Sample qualification was not required due to these deviations because the surrogate compound concentrations were diluted below the linear calibration range of the instrumentation.

Overall Data Assessment

Overall, the laboratory performed semivolatile organics analyses in accordance with the requirements specified in the method listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes with the exception of 13.39 percent of the non-detected sample results for several compounds which were rejected due to deviations from calibration, laboratory control sample, matrix spike, and surrogate recovery criteria. Sample results for several compounds were qualified based on deviations from initial calibration, continuing calibration, laboratory control sample, surrogate recovery, and matrix spike criteria.

SECTION 3 - DATA USABILITY and PARCC EVALUATION

3.1 Data Usability

This section presents a summary of the usability of the analytical data and an evaluation of the PARCC parameters. Data usability was calculated as the percentage of data that was not qualified as rejected based on a significant deviation from established QA/QC criteria. Data usability, which was calculated separately for each type of analysis, is tabulated below.

Table 17: Data Usability and PARCC Evaluation - Data Usability

Parameter	Usability	Deviations
Inorganic Parameters	99.85 %	Silver for one sample was rejected due to matrix spike recovery deviations
Volatile Organics	98.98 %	1.02 percent of the non-detected sample results for several compounds were rejected due to deviations from continuing calibration, laboratory control sample, and internal standard recovery criteria
Semivolatile Organics	86.61 %	13.39 percent of the non-detected sample results for several compounds were rejected due to deviations from calibration, laboratory control sample, matrix spike, and surrogate recovery criteria

3.2 PARCC Evaluation

The following sections provide an evaluation of the analytical data with respect to the precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters.

3.2.1 Precision

Precision is measured through field duplicate samples, split samples, and laboratory duplicate samples. For this sampling program, none of the data were qualified for field duplicate criteria deviations and none of the data were qualified for laboratory duplicate criteria deviations.

3.2.2 Accuracy

Matrix spike sample, surrogate recovery, internal standard recovery, laboratory control samples, and calibration criteria indicate the accuracy of the data. For this sampling program, 1.90 percent of the analytical data were qualified for deviations from matrix spike recovery criteria; 1.65 percent of of the data were qualified for surrogate recovery criteria deviations; 0.23 percent of the data were qualified for internal standard recovery criteria deviations; 0.93 percent of the data were qualified for laboratory control sample deviations; and 7.12 percent of the data were qualified for calibration criteria deviations.

3.2.3 Representativeness

Holding times, sample preservation, and blank analysis are indicators of the representativeness of the analytical data. For this investigation, none of the analytical

data required qualification for holding time deviations and 0.41 percent of the analytical data required qualification for blank analysis deviations.

3.2.4 Comparability

Comparability is not compromised provided that the analytical methods did not change over time. A major component of comparability is the use of standard reference materials for calibration and QC. These standards are compared to other unknowns to verify their concentrations. Since standard analytical methods and reporting procedures were consistently used by the laboratory, the comparability criteria for the analytical data were met.

3.2.5 Completeness

The overall percent usability or completeness of the data was 93.12 percent.

APPENDIX A

DATA VALIDATION CHECKLISTS

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Data Validation Checklist - Part A: VOA Analysis

No:	Parameter	YES	NO	N/A
1.0	**Traffic Reports and Laboratory Narrative**			
1.1	Are the traffic Report Forms present for all samples?	X		
1.2	Do the Traffic Reports or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?		X	
2.0	**Holding Times**			
2.1	Have any VOA technical holding times, determined from date of collection to date of analysis, been exceeded?		X	
3.0	**System Monitoring Compound (SMC) Recovery (Form II)**			
3.1	Are the VOA SMC Recovery Summaries (FORM II) present for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
3.2	Are all the VOA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
3.3	Were outliers marked correctly with an asterisk?	X		
3.4	Was one or more VOA system monitoring compound recovery outside of contract specifications for any sample or method blank?	X		
	If yes, were samples re-analyzed?		X	
	Were method blanks re-analyzed?			X
3.5	Are there any transcription/calculation errors between raw data and Form II?		X	
4.0	**Matrix Spikes (Form III)**			
4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?		X	
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices?			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
4.3	How many VOA spike recoveries are outside QC limits?			
	Water 3 out of 66 Soils 8 out of 66			
4.4	How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits?			
	Water 0 out of 66 Soils 0 out of 66			

Data Validation Checklist - Part A: VOA Analysis

No:	Parameter	YES	NO	N/A
5.0	**Blanks (Form IV)**			
5.1	Is the Method Blank Summary (Form IV) present?	X		
5.2	Frequency of Analysis: for the analysis of VOA TCL compounds, has a reagent/method blank been analyzed for each SDG or every 20 samples of similar matrix (low water, low soil, medium soil), whichever is more frequent?	X		
5.3	Has a VOA method/instrument blank been analyzed at least once every twelve hours for each concentration level and GC/MS system used?	X		
5.4	Is the chromatographic performance (baseline stability) for each instrument acceptable for VOAs?	X		
6.0	**Contamination**			
6.1	Do any method/instrument/reagent blanks have positive results (TCL and/or TIC) for VOAs?	X		
6.2	Do any field/trip/rinse blanks have positive VOA results (TCL and/or TIC)?	X		
6.3	Are there field/rinse/equipment blanks associated with every sample?	X		
7.0	**GC/MS Instrument Performance Check (Form V)**			
7.1	Are the GC/MS Instrument Performance Check Forms (Form V) present for Bromofluorobenzene (BFB)?	X		
7.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift?	X		
7.3	Has an instrument performance compound been analyzed for every twelve hours of sample analysis per instrument?	X		
7.4	Have the ion abundances been normalized to m/z 95?	X		
7.5	Have the ion abundance criteria been met for each instrument used?	X		
7.6	Are there any transcription/calculation errors between mass lists and Form V's?		X	
7.7	Have the appropriate number of significant figures (two) been reported?	X		
7.8	Are the spectra of the mass calibration compound acceptable?	X		
8.0	**Target Compound List (TCL) Analytes**			
8.1	Are the Organic Analysis Data Sheets (Form I VOA) present with required header information on each page, for each of the following:			
	a. Sample and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates?	X		
	c. Blanks?	X		
8.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?			
	a. Samples and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates (Mass spectra not required)?	X		
	c. Blanks?	X		
8.3	Are the response factors shown in the Quant Report?	X		

Data Validation Checklist - Part A: VOA Analysis

No:	Parameter	YES	NO	N/A
8.4	Is the chromatographic performance acceptable with respect to:			
	Baseline stability?	X		
	Resolution?	X		
	Peak shape?	X		
	Full-scale graph (attenuation)?	X		
	Other:			
8.5	Are the lab-generated standard mass spectra of the identified VOA compounds present for each sample?	X		
8.6	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	X		
8.7	Are all ions in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	X		
8.8	Do sample and standard relative ion intensities agree within 20%?	X		
9.0	**Tentatively Identified Compounds (TIC)**			
9.1	Are all Tentatively Identified Compound Forms (Form I Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?	X		
9.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?	X		
	b. Blanks?	X		
9.3	Are any TCL compounds (from any fraction) listed as TIC compounds?		X	
9.4	Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	X		
9.5	Do TIC and "best match" standard relative ion intensities agree within 20%?	X		
10.0	**Compound Quantitation and Reported Detection Limits**			
10.1	Are there any transcription/calculation errors in Form I results?		X	
10.2	Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
11.0	**Standards Data (GC/MS)**			
11.1	Are the Reconstructed Ion Chromatograms, and data system printouts present for initial and continuing calibration?	X		
12.0	**GC/MS Initial Calibration (Form VI)**			
12.1	Are the Initial Calibration Forms (Form VI) present and complete for the volatile fraction at concentrations of 10, 20, 50, 100, 200 ug/L? Are there separate calibrations for low/med soils and low soil samples?	X		
12.2	Were all low level soil standards, blanks, and samples analyzed by heated purge?	X		
12.3	Are the response factors stable for VOA's over the concentration range of the calibration (%Relative Standard Deviation (%RSD) <30%)		X	
12.4	Are the RRFs above 0.01?	X		
12.5	Are there any transcription/calculation errors in the reporting of average response factors (RRF) or %RSD?		X	

Data Validation Checklist - Part A: VOA Analysis

No:	Parameter	YES	NO	N/A
13.0	**GC/MS Continuing Calibration (Form VII)**			
13.1	Are the Continuing Calibration Forms (Form VII) present and complete for the volatile fraction?	X		
13.2	Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?	X		
13.3	Do any volatile compounds have a %Difference (%D) between the initial and continuing RRF which exceeds the +/- 25% criteria?	X		
13.4	Do any volatile compounds have a RRF <0.01?		X	
13.5	Are there any transcription/calculation errors in the reporting of average response factor (RRF) or %difference (%D) between initial and continuing RRFs?		X	
14.0	**Internal Standard (Form VIII)**			
14.1	Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration?		X	
14.2	Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
15.0	**Field Duplicates**			
15.1	Were any field duplicates submitted for VOA analysis?		X	

Data Validation Checklist - Part B: SVOC Analysis

No:	Parameter	YES	NO	N/A
1.0	**Traffic Reports and Laboratory Narrative**			
1.1	Are the traffic Report Forms present for all samples?	X		
1.2	Do the Traffic Reports or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?		X	
2.0	**Holding Times**			
2.1	Have any BNA technical holding times, determined from date of collection to date of extraction, been exceeded?		X	
3.0	**System Monitoring Compound (SMC) Recovery (Form II)**			
3.1	Are the BNA Surrogate Recovery Summaries (FORM II) present for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Med Soil			X
3.2	Are all the BNA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Med Soil			X
3.3	Were outliers marked correctly with an asterisk?	X		
3.4	Were two or more base neutral or acid surrogate compound recoveries out of specification for any sample or method blank?	X		
	If yes, were samples re-analyzed?		X	
	Were method blanks re-analyzed?			X
3.5	Are there any transcription/calculation errors between raw data and Form II?		X	
4.0	**Matrix Spikes (Form III)**			
4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?	X		
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices?	X		
	a. Low Water	X		
	b. Low Soil	X		
	c. Med Soil			X
4.3	How many BNA spike recoveries are outside QC limits?			
	Water 5 out of 66 Soils 66 out of 66			

Data Validation Checklist - Part B: SVOC Analysis

No:	Parameter	YES	NO	N/A
4.4	How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits?			
	Water ___0___ out of 66 Soils ___0___ out of 66			
5.0	**Blanks (Form IV)**			
5.1	Is the Method Blank Summary (Form IV) present?	X		
5.2	Frequency of Analysis: Has a reagent/method blank analysis been reported per 20 samples of a similar matrix, or concentration level, for each extraction batch?	X		
5.3	Has a BNA method blank been analyzed for each GC/MS system used?	X		
5.4	Is the chromatographic performance (baseline stability) for each instrument acceptable for BNAs?	X		
6.0	**Contamination**			
6.1	Do any method/instrument/reagent blanks have positive results (TCL and/or TIC) for BNAs?		X	
6.2	Do any field/rinse blanks have positive BNA results (TCL and/or TIC)?		X	
6.3	Are there field/rinse/equipment blanks associated with every sample?	X		
7.0	**GC/MS Instrument Performance Check (Form V)**			
7.1	Are the GC/MS Instrument Performance Check Forms (Form V) present for Decafluorotriphenylphosphine (DFTPP)?	X		
7.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the DFTPP provided for each twelve-hour shift?	X		
7.3	Has an instrument performance check solution been analyzed for every twelve hours of sample analysis per instrument?	X		
7.4	Have the ion abundances been normalized to m/z 198?	X		
7.5	Have the ion abundance criteria been met for each instrument used?	X		
7.6	Are there any transcription/calculation errors between mass lists and Form V's?		X	
7.7	Have the appropriate number of significant figures (two) been reported?	X		
7.8	Are the spectra of the mass calibration compound acceptable?	X		
8.0	**Target Compound List (TCL) Analytes**			
8.1	Are the Organic Analysis Data Sheets (Form I BNA) present with required header information on each page, for each of the following:			
	a. Sample and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates?	X		
	c. Blanks?	X		
8.2	Has GPC cleanup been performed on all soil/sediment sample extracts?			X
8.3	Are the BNA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?			

Data Validation Checklist - Part B: SVOC Analysis

No:	Parameter	YES	NO	N/A
	a. Samples and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates (Mass spectra not required)?	X		
	c. Blanks?	X		
8.4	Are the response factors shown in the Quant Report?	X		
8.5	Is the chromatographic performance acceptable with respect to:			
	Baseline stability?	X		
	Resolution	X		
	Peak shape?	X		
	Full-scale graph (attenuation)?	X		
	Other:			
8.6	Are the lab-generated standard mass spectra of identified BNA compounds present for each sample?	X		
8.7	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	X		
8.8	Are all ions in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	X		
8.9	Do sample and standard relative ion intensities agree within 20%?	X		
9.0	**Tentatively Identified Compounds (TIC)**			
9.1	Are all Tentatively Identified Compound Forms (Form I, Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?	X		
9.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?	X		
	b. Blanks?	X		
9.3	Are any TCL compounds (from any fraction) listed as TIC compounds?		X	
9.4	Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	X		
9.5	Do TIC and "best match" standard relative ion intensities agree within 20%?	X		
10.0	**Compound Quantitation and Reported Detection Limits**			
10.1	Are there any transcription/calculation errors in Form I results?		X	
10.2	Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
11.0	**Standards Data (GC/MS)**			
11.1	Are the Reconstructed Ion Chromatograms, and data system printouts present for initial and continuing calibration?	X		
12.0	**GC/MS Initial Calibration (Form VI)**			

Data Validation Checklist - Part B: SVOC Analysis

No:	Parameter	YES	NO	N/A
12.1	Are the Initial Calibration Forms (Form VI) present and complete for the BNA fraction ?	X		
12.2	Are response factors stable for BNA's over the concentration range of the calibration (%Relative Standard Deviation (%RSD) <30%)		X	
12.3	Are all BNA compound RRFs > 0.01?	X		
12.4	Are there any transcription/calculation errors in the reporting of average response factors (RRF) or %RSD?	X		
13.0	**GC/MS Continuing Calibration (Form VII)**			
13.1	Are the Continuing Calibration Forms (Form VII) present and complete for the BNA fraction?	X		
13.2	Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?	X		
13.3	Do any semivolatile compounds have a %Difference (%D) between the initial and continuing RRF which exceeds the +/- 25% criteria?	X		
13.4	Do any semivolatile compounds have a RRF <0.01?		X	
13.5	Are there any transcription/calculation errors in the reporting of average response factor (RRF) or %difference (%D) between initial and continuing RRFs?	X		
14.0	**Internal Standard (Form VIII)**			
14.1	Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration?	X		
14.2	Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
15.0	**Field Duplicates**			
15.1	Were any field duplicates submitted for BNA analysis?		X	

Data Validation Checklist - Part C: Metals Analysis

No:	Parameter	YES	NO	N/A
1.0	**Form I to IX**			
1.1	Are all the Form I through Form IX labeled with:			
	Laboratory Name?	X		
	Case/SAS No.?		X	
	EPA sample No.?		X	
	SDG No.?	X		
	Contract No.?	X		
	Correct units?	X		
	Matrix?	X		
1.2	Do any computer/transcription errors exceed 10% of reported values on Forms I-IX for:			
	A. All analytes analyzed by ICP?		X	
	B. All analytes analyzed by GFAA?			X
	C. All analytes analyzed by AA Flame?			X
	D. Mercury?		X	
	E. Cyanide?			X
2.0	**Raw Data**			
2.1	Digestion Log for flame AA/ICP (Form XIII) present?	X		
2.2	Digestion Log for furnace AA (Form XIII) present?			X
2.3	Distillation Log for mercury (Form XIII) present?	X		
2.4	Distillation Log for cyanides (Form XIII) present?			X
2.5	Are pH values (pH<2 for all metals, pH>12 for cyanide) present?	X		
2.6	Percent solids calculation dates present on sample preparation logs/bench sheets?	X		
2.7	Are preparation dates present on sample preparation logs/bench sheets?	X		
2.8	Measurement read out record present?			
	A. ICP	X		
	B. Flame AA			X
	C. Furnace AA			X
	D. Mercury	X		
	E. Cyanides			X
2.9	Are all raw data to support all sample analyses and QC operations present?			X
3.0	**Holding Times**			
3.1	A. Mercury analysis (28 days) .....exceeded?		X	
	B. Cyanide distillation (14 days) .....exceeded?			X
	C. Other Metals analysis (6 months) .....exceeded?		X	
3.2	Is pH of aqueous samples for:			
	A. Metals Analysis >2?		X	

Data Validation Checklist - Part C: Metals Analysis

No:	Parameter	YES	NO	N/A
	B. Cyanides Analysis <12?			X
4.0	**Form I (Final Data)**			
4.1	Are all Forms I's present and complete?	X		
4.2	Are correct units (ug/l for waters and mg/kg for soils) indicated on Form I's?	X		
4.3	Are soil sample results for each parameter corrected for percent solids?	X		
4.4	Are all "less than IDL" values properly coded with "U"?	X		
4.5	Are the correct concentration qualifiers used with final data?	X		
4.6	Are EPA sample #s and corresponding laboratory sample ID #s the same as on the Cover Page, Form I's and in the raw data?	X		
4.7	Was a brief physical description of samples given on Form I's?	X		
4.8	Was the dilution of any sample diluted beyond the requirements of the contract noted on Form I or Form XIV?		X	
5.0	**Calibration**			
5.1	Is record of at least 2 point calibration present for ICP analysis?	X		
5.2	Is record of 5 point calibration present for Hg analysis?	X		
5.3	Is record of 4 point calibration present for:			X
	Flame AA?			X
	Furnace AA?			X
	Cyanides?			X
5.4	Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?	X		
5.5	Is correlation coefficient less than 0.995 for:			
	Mercury Analysis?	X		
	Cyanide Analysis?			X
	Atomic Absorption Analysis?			X
5.6	In the instance where less than 4 standards are measured in absorbance (or peak area, peak height, etc.) Mode, are remaining standards analyzed in concentration mode immediately after calibration within +/- 10% of the true values?			X
6.0	**Form II A (Initial and Continuing Calibration Verification)**			
6.1	Present and complete for every metal and cyanide?	X		
6.2	Present and complete for AA ICP when both are used for the same analyte?			X
6.3	Are all calibration standards (initial and continuing) within control limits:			
	Metals - 90 - 110 %R		X	
	Hg - 80 - 120 %R	X		
	Cyanides - 85 - 115 %R			X
6.4	Was continuing calibration performed every 10 samples or every 2 hours?	X		
6.5	Was ICV for cyanides distilled?			X

Data Validation Checklist - Part C: Metals Analysis

No:	Parameter	YES	NO	N/A
7.0	**Form II B (CRDL Standards for AA and ICP)**			
7.1	Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	X		
7.2	Was a mid range calibration verification standard distilled and analyzed for cyanide analysis?	X		
7.3	Was a 2xCRDL (or 2xIDL when IDL>CRDL) analyzed (CRI) for each ICP run?	X		
7.4	Was CRI analyzed after ICV/ICB and before the final CCV/CCB, and twice every eight hours of ICP run?	X		
7.5	Are CRA and CRI standards within control limits: Metals 70 – 130 %R?	X		
7.6	Is mid-range standard within control limits: Cyanide 70 - 130 %R?			X
8.0	**Form III (Initial and Continuing Calibration Blanks)**			
8.1	Present and complete?	X		
8.2	For both AA and ICP when both are used for the same analyte?			X
8.3	Was an initial calibration blank analyzed?	X		
8.4	Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
8.5	Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?	X		
8.6	Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			X
9.0	**Form III (Preparation Blank)**			
9.1	Was one preparation blank analyzed for:			
	each Sample Delivery Group?	X		
9.2	Is concentration of preparation blank value greater than the CRDL when IDL is less than or equal to CRDL?		X	
9.3	If yes, is the concentration of the sample with the least concentrated analyte less than 10 times the preparation blank?			X
9.4	Is concentration of preparation blank value (Form III) less than two times IDL, when IDL is greater than CRDL?			X
9.5	Is concentration of preparation blank below the negative CRDL?		X	
10.0	**Form IV (Interference Check Sample)**			
10.1	Present and Complete?	X		
10.2	Are all Interference Check Sample results inside the control limits (+/- 20%)?	X		
10.3	If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
11.0	**Form V A (Spiked Sample recovery - Pre-Digestion/Pre-Distillation**			
11.1	Present and complete for:			
	each SDG?	X		
	each matrix type?	X		
	each concentration range (i.e., low, medium, high)?	X		

Data Validation Checklist - Part C: Metals Analysis

No:	Parameter	YES	NO	N/A
	For both AA and ICP when both are used for the same analyte?			X
11.2	Was field blank used for spiked sample?		X	
11.3	Are all recoveries within control limits?		X	
11.4	If no, is sample concentration greater than or equal to four times spike concentration?	X		
12.0	**Form VI (Lab Duplicates)**			
12.1	Present and complete for :			
	each SDG?	X		
	each matrix type?	X		
	each concentration range (i.e., low, medium, high)?	X		
	both AA and ICP when both are used for the same analyte?			X
12.2	Was field blank used for duplicate analysis?		X	
12.3	Are all values within control limits (RPD 35% or difference </= +/-CRDL)?	X		
12.4	If no, are all results outside the control limits flagged with an * on Form I's and VI?			X
13.0	**Field Duplicates**			
13.1	Were field duplicates analyzed?		X	
13.2	**Aqueous**			
	Is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times CRDL?			X
	Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?			X
13.3	**Soil/Sediment**			
	Is any RPD (where sample and duplicate are both greater than 5 times CRDL): >100%?			X
	Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL): >2x CRDL?			X
14.0	**Form VII (Laboratory Control Sample)**			
14.1	Was one LCS prepared and analyzed for:			
	each SDG?	X		
	each batch samples digested/distilled?	X		
	both AA and ICP when both are used for the same analyte?			X
14.2	**Aqueous LCS**			
	Is any LCS recovery:			
	less than 50%?		X	
	between 50% and 79%?		X	
	between 121% and 150%?		X	
	greater than 150%?		X	
14.3	**Solid LCS**			
	Is LCS "Found" value higher than the control limits on Form VII?		X	

Data Validation Checklist - Part C: Metals Analysis

No:	Parameter	YES	NO	N/A
	Is LCS "Found" value lower than the control limits on Form VII?		X	
15.0	**Form IX (ICP Serial Dilution)**			
15.1	Was serial dilution analysis performed for:			
	each SDG?	X		
	each matrix type?	X		
	each concentration range (i.e., low, medium, high)?	X		
15.2	Was field blank(s) used for Serial Dilution Analysis?		X	
15.3	Are results outside control limit flagged with an "E" on Form I's and Form IX when initial concentration on Form IX is equal to 50 times IDL or greater?	X		
15.4	Are any %difference values:			
	>10%	X		
	>/=100%		X	
16.0	**Furnace Atomic Absorption (AA) QC Analysis**			
16.1	Are duplicate injections present in furnace raw data for each sample analyzed by GFAA?			X
16.2	Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or Coefficient of Variation (CV) for concentration greater than CRDL?			X
16.3	Was a dilution analyzed for sample with analytical spike recovery less than 40%?			X
16.4	Is analytical spike recovery outside the control limits (85 - 115%) for any sample?			X
17.0	**Form VIII (Method of Standard Addition Results)**			
17.1	Present?			X
17.2	If no, is any Form I result coded with "S" or a "+"?			X
17.3	Is coefficient of correlation for MSA less than 0.990 for any sample?			X
17.4	Was MSA required for any sample but not performed?			X
17.5	Is coefficient of correlation for MSA less than 0.995?			X
17.6	Are MSA calculations outside the linear range of the calibration curve generated at the beginning of the analytical run?			X
17.7	Was proper Quantitation procedure followed correctly as outlined in the SOW on page E-23?			X
18.0	**Dissolved/Total or Inorganic/Total Analytes**			
18.1	Were any analyses performed for dissolved as well as total analytes on the same sample(s)?		X	
18.2	Were any analyses performed for inorganic as well as total (organic and inorganic) analytes on the same sample(s)?	X		
18.3	Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 10%?		X	
18.4	Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 50%?		X	

Data Validation Checklist - Part C: Metals Analysis

No:	Parameter	YES	NO	N/A
19.0	**Form I (Field Blank)**			
19.1	Is field blank concentration less than CRDL (or 2 x IDL when IDL>CRDL) for all parameters of associated aqueous and soil samples?	X		
19.2	If no, was field blank value already rejected due to other QC criteria?			X
20.0	**Form X, XI, XII (Verification of Instrumental Parameters)**			
20.1	Is verification report present for:			
	Instrument Detection Limits (quarterly)?	X		
	ICP Interelement Correction Factors (annually)?	X		
	ICP Linear Ranges (quarterly)?	X		
21.0	**Form X (Instrument Detection Limits)**			
21.1	Are IDLs present for:			
	all the analytes?	X		
	all the instruments used?	X		
	For both AA and ICP when both are used for the same analyte?			X
21.2	Is IDL greater than CRDL for any analytes?		X	
21.3	If yes, is the concentration on Form I of the sample analyzed on the instrument whose IDL exceeds CRDL, greater than 5 x IDL?			X
22.0	**Form XI (Linear Ranges)**			
22.1	Was any sample result higher than the high linear range of ICP?		X	
22.2	Was any sample result higher than the highest calibration standard for non-ICP parameters?		X	
22.3	If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
23.0	**Percent Solids of Sediments**			
23.1	Are percent solids in sediment(s):			
	<50%?		X	
	<10%?		X	

Data Usability Summary Report

Former NuHart Plastic Manufacturing Site
Brooklyn, New York

Soil Vapor Samples
SDG # 13H0112
SDG # 13L0201

February 2014

EnviroAnalytics
Data Management and Validation Service

2638 Sunset Avenue
Utica, New York 13502

Data Usability Summary Report

Soil Vapor Samples
SDG # 13H0112
SDG # 13L0201

Former NuHart Plastic Manufacturing Site
Brooklyn, New York

Prepared By:

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2638 Sunset Avenue
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EXECUTIVE SUMMARY

This report addresses data quality for air samples collected at the former NuHart Plastic Manufacturing Site located in Brooklyn, New York. The samples were analyzed for TO-15 volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Ecosystems Strategies, Inc. of Poughkeepsie, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

The TO-15 volatile organic analyses data were determined to be usable for qualitative and quantitative purposes with additional qualification. Qualification of sample data included blank analysis for one sample and the approximation of sample results for several compounds due to deviations from continuing calibration and laboratory control sample criteria.

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Appendix A - Data Validation Checklists

SECTION 1 - INTRODUCTION

1.1 Introduction

This report addresses data quality for air samples collected at the former NuHart Plastic Manufacturing Site located in Brooklyn, New York. The samples were analyzed for TO-15 volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Ecosystems Strategies, Inc. of Poughkeepsie, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut. The quantity and type of samples submitted for data validation are tabulated below.

Table 1: Introduction - Sample Summary Table

SDG#	Date Collected	Sample Matrix	Sample Identification	
			Client ID	Laboratory ID
13H0112	07/31/2013	Soil Vapor	2SB-2	13H0112-01
			2SB-3	13H0112-02
			2SB-4	13H0112-03
			2SB-6	13H0112-04
			2SB-7	13H0112-05
			2SB-8	13H0112-06
			2SB-10	13H0112-07
13l0201	12/04/2013	Soil Vapor	2SB-16	13L0201-01

1.2 Analytical Methods

The samples were analyzed for TO-15 volatile organics (VOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies (2005 update). Laboratory analyses were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

1.3 Validation Protocols

Data validation is a process that involves the evaluation of analytical data against prescribed quality control criteria to determine the usefulness of the data. The analytical data addressed in this report were evaluated utilizing the quality control criteria presented in the following documents:

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, EPA-540-R-08-01, June 2008.
- *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6 Revision #14, USEPA Region II, September 2006.
- *Validating Air Samples Volatile Organic Analysis of Ambient Air in Canister by Method TO-15*, SOP No. HW-31 Revision #4, USEPA Hazardous Waste Support Branch, October 2006.

- *Exhibit E of New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP)*, NYSDEC June 2005.

1.3.1 Organic Parameters

The validation of organic parameters for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

TO-15 Volatile Organics Analysis

1. Holding Times
2. GC/MS Instrument Tuning Criteria
3. Calibration
   a. Initial Calibration
   b. Continuing Calibration
4. Blank Analysis
5. Surrogate Recovery
6. Matrix Spike / Matrix Spike Duplicate Analysis
7. Reference Standard Analysis
8. Internal Standards Recovery
9. Compound Identification and Quantification
10. Field Duplicate Analysis
11. System Performance
12. Documentation Completeness
13. Overall Data Assessment

1.4 Data Qualifiers

The following qualifiers as specified in the guidance documents presented in Section 1.3 of this report have been used for this data validation.

U Indicates that the compound was analyzed for, but was not detected. The sample quantification limit is presented and adjusted for dilution. This qualifier is also used to signify that the detection limit of an analyte was raised due to blank contamination.

J Indicates that the result should be considered approximate. This qualifier is used when the data validation procedure identifies a deficiency in the data generation process.

UJ Indicates that the detection limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.

R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data are considered to be unusable for both qualitative and quantitative purposes.

The following sections of this document present a summary of the data validation process. Section 2 discusses data compliance with established QA/QC criteria and qualifications performed on the sample data. A discussion of the Precision, Accuracy, Representativeness, Comparability, and Completeness (PARCC) of the data and data usability are discussed in Section 3. The USEPA Region II Data Validation Checklist is presented in Appendix A.

SECTION 2 - DATA VALIDATION SUMMARY

This section presents a discussion of QA/QC parameter compliance with established criteria and the qualification of data performed when QA/QC parameter deviations were identified. When several deviations from established QA/QC criteria were observed, the final qualifier assigned to the data was based on the cumulative effect of the deviations.

2.1 Volatile Organics Analysis

Data validation was performed for eight soil vapor samples. The QA/QC parameters presented in Section 1.3.1 of this report were found to be within specified limits. The overall data assessment is presented below.

Blank Analysis

The method blanks contained detectable concentrations of several target compounds. Blank action levels were calculated at ten times the blank concentrations for the common laboratory contaminants and five times for other target compounds. Detected sample results, which were less than the blank action levels were qualified with a "U" in the associated samples. Results that were detected below the contract required detection limit (CRDL) were raised to the CRDL and qualified with a "U" qualifier. The "U" qualifier indicates that the volatile organic was analyzed for but was not detected above the CRDL. Samples qualified for blank contamination are tabulated below.

Table 2: Volatile Organics Analysis - Blank Analysis Deviations

Blank Matrix	Date Analyzed	Compound	Blank Action Level	Associated Samples	Qualified Sample Result
Soil Vapor	12/09/2013 (14:11)	Methylene Chloride	75.6[1] µg/M^3	2SB-16	21 U µg/M^3

1. Blank action level corrected for sample dilution

Continuing Calibration

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 30 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

Table 3: Volatile Organics Analysis - Continuing Calibration Deviations

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
08/08/2013 (21:04) 5975C	Isopropanol	54.3 %	J, UJ	2SB-2 2SB-3 2SB-4 2SB-6 2SB-7 2SB-8 2SB-10

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
12/09/2013 (12:46) 5975C	4-Methyl-2-pentanone Isopropanol Hexachlorobutadiene 2-Hexanone 1,4-Dioxane 1,2,4-Trichlorobenzene	56.9 % 74.1 % 54.3 % 80.5 % 48.0 % 54.0 %	UJ UJ UJ UJ UJ UJ	2SB-16

Laboratory Control Sample Analysis

Laboratory control sample (LCS) recovery criteria requiring compound recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample results included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries that were less than 10 percent. Samples qualified due to LCS recovery deviations are tabulated below.

Table 4: Volatile Organics Analysis - Laboratory Control Sample Deviations

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples
Soil Vapor	Isopropanol	176 %	60 % to 150 %	J	2SB-3
Soil Vapor	Carbon Disulfide	118 %	61.8 % to 111 %	J	2SB-3 2SB-10
Soil Vapor	4-Methyl-2-pentanone 2-Hexanone Methyl Methacrylate	63.6 %/54.8 % 52.3 %/44.5 % 65.9 %/58.1 %	64.4 % to 158 % 52 % to 150 % 70 % to 130 %	UJ UJ UJ	2SB-16

Sample Dilution

Compound concentrations for several samples exceeded the linear calibration range of the analytical system when analyzed with an un-diluted sample aliquot. The laboratory re-analyzed these samples with a diluted sample aliquot to properly quantify the compound concentration within the range of the analytical system. When the secondary dilution analysis exceeded the linear calibration range the laboratory reported the detected result with a "DE" qualifier. The "DE" qualified sample results should be considered approximate (J) sample concentrations. Samples qualified due to sample dilution deviations are presented below.

Table 5: Volatile Organics Analysis - Sample Dilution Table

Sample ID	Compound	Sample Results (µg/M^3)	
		Laboratory Reported Result	Qualified Sample Result
2SB-3	Trichloroethylene	43000 DE	43000 J

Overall Data Assessment

Overall, the laboratory performed TO-15 volatile organic analyses in accordance with the requirements specified in the methods listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes with additional qualification. Qualification of sample data included blank analysis for one sample and the approximation of sample results for several compounds due to deviations from continuing calibration and laboratory control sample criteria.

SECTION 3 - DATA USABILITY and PARCC EVALUATION

3.1 Data Usability

This section presents a summary of the usability of the analytical data and an evaluation of the PARCC parameters. Data usability was calculated as the percentage of data that was not qualified as rejected based on a significant deviation from established QA/QC criteria. Data usability which was calculated separately for each type of analysis is tabulated below.

Table 6: Data Usability and PARCC Evaluation - Data Usability

Parameter	Usability	Deviations
TO-15 Volatile Organics	100 %	None resulting in the rejection of data.

3.2 PARCC Evaluation

The following sections provide an evaluation of the analytical data with respect to the precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters.

3.2.1 Precision

Precision is measured through field duplicate samples, split samples, and laboratory duplicate samples. For this sampling program, none of the data were qualified for laboratory duplicate criteria deviations and none of the data were qualified for field duplicate criteria deviations.

3.2.2 Accuracy

Matrix spike sample, surrogate recovery, internal standard recovery, laboratory control samples, and calibration criteria indicate the accuracy of the data. For this sampling program, none of the analytical data were qualified for deviations from matrix spike recovery criteria; none of the data were qualified for surrogate recovery criteria deviations; none of the data were qualified for internal standard recovery criteria deviations; 1.23 percent of the data were qualified for laboratory control sample deviations; and 2.66 percent of the data were qualified for calibration criteria deviations.

3.2.3 Representativeness

Holding times, sample preservation, and blank analysis are indicators of the representativeness of the analytical data. For this investigation, none of the analytical data required qualification for holding time deviations and 0.20 percent of the analytical data required qualification for blank analysis deviations.

3.2.4 Comparability

Comparability is not compromised provided that the analytical methods did not change over time. A major component of comparability is the use of standard reference materials for calibration and QC. These standards are compared to other unknowns to verify their

concentrations. Since standard analytical methods and reporting procedures were consistently used by the laboratory, the comparability criteria for the analytical data were met.

3.2.5 Completeness

The percent usability or completeness of the data was determined to be 100 percent.

APPENDIX A

DATA VALIDATION CHECKLISTS

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Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
1.0	**Data Completeness and Deliverables**			
1.1	Have any missing deliverables been received and added to the data package?		X	
2.0	**Cover Letter, Narrative, and Data Reporting Forms**			
2.1	Is the Lab. Narrative and Cover Page Present?	X		
2.2	Is Case Number contained in the Narrative?	X		
2.3	Are the following Data Reporting Forms present?			
	Analysis Data Sheet [Form I/Equivalent]	X		
	Tentatively Identified Compounds [Form I-TIC]	X		
	Blank Summary [Form IV/Equivalent]	X		
	Laboratory Control Sample Data Sheet [Form III/Equivalent]	X		
	GC/MS Instrument Performance Check and Mass Calibration [Form V/Equivalent]	X		
	Initial Calibration [Form VI/Equivalent]	X		
	Continuing Calibration [Form VII/Equivalent]	X		
	Internal Standard Area and RT Summary [Form VIII/Equivalent]	X		
	Canister Certification [Form IX/Equivalent]	X		
3.0	**Canister Receipt/Log-in Sheet**			
3.1	Do all info items agree with each sample?	X		
4.0	**Traffic Reports and Laboratory Narrative**			
4.1	Are the Traffic Report Forms present for all samples?	X		
5.0	**Holding Times**			
5.1	Have any VOA technical holding times of 30 days, determined from the date of sample collection to the date of analysis, been exceeded?		X	
6.0	**Leak Test Evaluation**			
6.1	Did the pressure test not vary by more than ± 13.8 kPa (± 2 psi) over the 24 hours period?	X		
7.0	**Canister Certification Form IX/Equivalent**			
7.1	Blank Analysis			
	Were the target analytes < the required detection limits specified in the task order?	X		
7.2	Is the canister certification form provided, and the associated canister sample identification included? When contamination, included contamination detected (all raw data), analyte and reference mass spectra.	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
8.0	**Laboratory Control Samples**			
8.1	Is an LCS Data Sheet [Form III/Equivalent] present and complete for each LCS?	X		
8.2	Was an LCS prepared (10 ppbv total scan, 0.1 ppbv SIM) and analyzed at the required frequency (once per 24 hour analytical sequence, and concurrently with the samples in the SDG)?	X		
8.3	Are there any transcription/calculation errors between the raw data and Form III/Equivalent?		X	
8.4	Is the % recovery within 70 – 130 % for each LCS target compound reported on Form III/Equivalent?		X	
8.5	Is the RT of each reported LCS compound within the windows established during the most recent valid calibration?	X		
8.6	Do the Internal Standards meet the requirements specified in Sections 18.1 and 18.2?	X		
9.0	**GC/MS Instrument Performance Check**			
9.1	Are the GC/MS Instrument Performance Check Forms [Form V/Equivalent] present for Bromofluorobenzene (BFB)?	X		
9.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the 50 ng BFB provided for each twenty-four hour shift?	X		
9.3	Has the instrument performance compound been analyzed for every twenty-four hours of sample analysis per instrument?	X		
9.4	Have the ion abundances been normalized to m/z 95?	X		
9.5	Have the ion abundance criteria been met for each instrument used?	X		
9.6	Are there any transcription/calculation errors between mass lists and Form Vs?		X	
9.7	Have the appropriate number of significant figures (two) been reported?	X		
9.8	Are the spectra of the mass calibration compound acceptable?	X		
10.0	**Performance Evaluation Sample (Optional)**			
10.1	Was a PE sample submitted from the Agency with each SDG?			X
10.2	Do the Internal Standards meet the requirements specified in Section 18.1 and 18.2?			X
11.0	**Laboratory Method Blanks**			
11.1	Is an Analysis Data Sheet [Form IV/Equivalent] present and complete for each method blank?	X		
11.2	Frequency of Analysis:			
	Has a method blank analysis been reported per instrument for each 24-hour analytical sequence?	X		
	Has a method blank been analyzed after the initial calibration or a valid calibration check standard, and before the LCS, prior to sample analysis?	X		
11.3	Is the chromatographic performance (baseline stability) for each instrument acceptable?	X		
11.4	Was the area response of each Internal Standard (IS) in the blank within ± 40 % of the mean area response of the IS of the most recent valid calibration?	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
11.5	Were the RTs of each IS within ± 0.33 min (20 sec.) between blanks and most recent valid calibration?	X		
12.0	**Blank Contamination**			
12.1	Do any method blanks have positive target and non-target VOA results?	X		
13.0	**Target Compound Analytes**			
13.1	Are the Organic Analysis Data Sheets [Form I/Equivalent], VOA chromatograms, and data system printouts present and complete with required header information for each of the following:			
	a. Samples?	X		
	b. Method blanks?	X		
	c. Laboratory Control Sample (LCS)?	X		
	d. Performance Evaluation Sample (PES)?	X		
13.2	Is the chromatographic performance acceptable with respect to:			
	a. Baseline stability?	X		
	b. Resolution?	X		
	c. Peak shape?	X		
	d. Full-scale graph (attenuation)?	X		
	e. Other?			X
13.3	Were any electropositive displacement (negative peaks) or unusual peaks seen?		X	
13.4	Is the sample component relative retention time (RRT) within ± 0.06 RRT units of the RRT of the standard component from the most recent continuing calibration?	X		
13.5	Was Nafion dryer used?			X
14.0	**Tentatively Identified Compounds (TIC)**			
14.1	Are all Tentatively Identified Compound Forms [Form I-TIC] present and are retention time, estimated concentration and "JN" qualifier listed corresponding to each TIC?			X
14.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following?			
	a. Samples			X
	b. Blanks			X
14.3	Are all ions present in the reference mass spectrum with a relative intensity greater than 10 % also present in the sample mass spectrum?			X
14.4	Do TIC and "best match" standard relative ion intensities agree within 20 %?			X
15.0	**Initial Calibration and System Performance [Form VI/Equivalent]**			
15.1	Were each GC/MS system calibrated at 5 concentrations that span the monitoring range of the interest in an initial calibration sequence to determine the sensitivity and the linearity of the GC/MS response for the target compounds?	X		
15.2	Was the same volume introduced into the trap consistently for all field and QC-sample analyses?	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
15.3	Was the area response (Y) at each calibration level within ± 40 % of the mean area response (mean Y) over the initial calibration range for each Internal Standard?	X		
	Did the laboratory tabulate the area response (Y) of the primary ions and the corresponding concentration for each compound and Internal Standard?	X		
15.4	Are the relative retention times (RRTs) for each of the target compounds at each calibration level within ± 0.06 RRT units of the mean relative retention time for the compound?	X		
15.5	Are all individual RRF and average RRFs ≥ 0.050?	X		
15.6	Are the response factors (RF) stable i.e., % Relative Standard Deviation (%RSD) ≤ 40.0 %?	X		
15.7	Are there any transcription/calculation errors in the reporting of average response factors (RRFs) or %RSDs?		X	
15.8	Are the RT shift for each Internal Standard (IS) at each calibration level within 20 seconds of the mean RT over the initial calibration range of each IS?	X		
16.0	**Daily Calibration (Form VII/Equivalent)**			
16.1	Are the daily Calibration Forms [Form VII/Equivalent] present and complete for the volatile fraction?	X		
16.2	Has the daily calibration standard (20 ppbv total scan, 0.1 ppbv SIM) been analyzed for every twenty-four hours of sample analysis per instrument after the BFB tuning analysis?	X		
16.3	Do any volatile compounds have a % Difference (%D) between the initial and daily RRFs which exceed the ± 30 % criteria?	X		
16.4	Are there any transcription/calculation errors in the reporting of the average response factors (RRF) or % difference (%D) between initial and daily RRFs?		X	
17.0	**Compound Quantitation and Reported Detection Limits**			
17.1	Are there any transcription/calculations errors in Form I results?		X	
17.2	Are the reported detection limits adjusted to reflect sample dilutions?	X		
17.3	Have any target compound concentrations exceeded the calibration range of the GC?		X	
17.4	Was more than one method of quantitation used to calculate sample results within a batch or 24-hour analytical sequence?		X	
17.5	Did the lab report the target compounds below CRQLs with the suffix "J"?			X
18.0	**Internal Standards (Form VIII/Equivalent)**			
18.1	Are the 3 internal standard areas [Form VIII] of every sample, LCS, PE, and blank within the upper and lower limits (+ 40 % to – 40 %) for each continuing calibration or 10 ppbv level of initial calibration?	X		
18.2	Are the internal standard retention times in each sample, LCS, PE, and blank within 20 seconds of the corresponding retention times in the associated calibration standard?	X		
19.0	**Mass Spectral Interpretation/Identification**			
19.1	Are the Organic Analysis Data Sheets present with required header information on each page, for each of the following:			
	a. Samples and/or fractions as appropriate?	X		

Data Validation Checklist - Part A: TO-15 VOA Analyses

No:	Parameter	YES	NO	N/A
	b. Laboratory Control Samples?	X		
	c. Blanks?	X		
19.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (quant reports) included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?	X		
	b. Laboratory Control Samples?	X		
	c. Blanks?	X		
19.3	Is chromatographic performance acceptable with respect to:			
	a. Baseline stability?	X		
	b. Resolution?	X		
	c. Peak shape?	X		
	d. Full-scale graph (attenuation)?	X		
	e. Other:			X
19.4	Are the lab-generated standard mass spectra of the identified compounds present for each sample?	X		
19.5	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	X		
19.6	Are all ions present in the reference standard mass spectrum at a relative intensity greater than 10 % also present in the sample mass spectrum?	X		
19.7	Do sample and reference standard relative ion intensities agree within ± 20 %?	X		
20.0	**Field Duplicates**			
15.1	Were any field duplicates submitted for VOA analysis?		X	

Data Usability Summary Report

Former NuHart Plastic Manufacturing Site
Brooklyn, New York

Samples Collected
April 2012 – April 2014

June 2014

EnviroAnalytics
Data Management and Validation Service

2638 Sunset Avenue
Utica, New York 13502

Data Usability Summary Report

Samples Collected
April 2012 – April 2014

Former NuHart Plastic Manufacturing Site
Brooklyn, New York

Prepared By:

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EXECUTIVE SUMMARY

This report addresses data quality for soil and water samples collected at the NuHart Plastic Manufacturing Site located in Brooklyn, New York. The samples were analyzed for volatile organics (VOCs), semivolatile organics (SVOCs), and inorganics (Metals) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Ecosystems Strategies, Inc. of Poughkeepsie, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

The inorganics analyses data have been determined to be usable for qualitative and quantitative purposes with additional qualification. Sample results for several analytes were qualified based on deviations from laboratory duplicate and ICP serial dilution analysis criteria.

The volatile organics analyses data were determined to be usable for qualitative and quantitative purposes with the exception of non-detected sample results for 1,4-Dioxane for two samples which were rejected due to deviations from laboratory control sample criteria. Sample results for several compounds were qualified based on deviations from blank analysis, initial calibration, continuing calibration, laboratory control sample, internal standard recovery, and surrogate recovery criteria.

The semivolatile organics analyses data were determined to be usable for qualitative and quantitative purposes with additional qualification. Sample results for several compounds were qualified based on deviations continuing calibration criteria.

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Appendix A - Data Validation Checklists

SECTION 1 - INTRODUCTION

1.1 Introduction

This report addresses data quality for soil and water samples collected at the NuHart Plastic Manufacturing Site located in Brooklyn, New York. The samples were analyzed for volatile organics (VOCs), semivolatile organics (SVOCs), and inorganics (Metals) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Ecosystems Strategies, Inc. of Poughkeepsie, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut. The quantity and types of samples submitted for data validation are tabulated below.

Table 1: Introduction - Sample Summary Table

SDG#	Date Collected	Sample Matrix	Sample Identification	
			Client ID	Laboratory ID
12D0700	04/19/2012	Soil	SB-65 (8-12') SB-66 (12-16')	12D0700-01 12D0700-03
12D0913	04/25/2012	Water	MW-22 MW-13 MW-13 TB-4/25/2012	12D0913-01 12D0913-02 12D0913-03 12D0913-04
14D0225	04/03/2014	Water	MW-4 MW-8 MW-21 TB-020120403	14D0225-01 14D0225-02 14D0225-03 14D0225-04

1.2 Analytical Methods

The samples were analyzed for volatile organics (VOCs), semivolatile organics (SVOCs), and inorganics (Metals) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies (2005 update). Laboratory analyses were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

1.3 Validation Protocols

Data validation is a process that involves the evaluation of analytical data against prescribed quality control criteria to determine the usefulness of the data. The analytical data addressed in this report were evaluated utilizing the quality control criteria presented in the following documents:

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-08-01, June 2008.
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review*, USEPA-540-R-10-011, January 2010.

- *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6 Revision #14, USEPA Region II, September 2006.

- *Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO5.3*, SOP No. HW-2, Revision #13, USEPA Region II, September 2006.

- *Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8260B*, SOP No. HW-24 Revision #2, USEPA Hazardous Waste Support Branch, August 2008.

- *Validating Semivolatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8270D*, SOP No. HW-22 Revision #4, USEPA Hazardous Waste Support Branch, August 2008.

- *Exhibit E of New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP)*, NYSDEC June 2005.

1.3.1 Inorganic Parameters

The validation of inorganics for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

1. Holding Times
2. Calibration
   a. Initial Calibration Verification
   b. Continuing Calibration Verification
3. Blank Analysis
4. ICP Interference Check Sample Analysis (ICP only)
5. Matrix Spike Analysis
6. Laboratory Duplicate Analysis
7. Laboratory Control Sample Analysis
8. ICP Serial Dilution Analysis (ICP only)
9. Furnace Atomic Absorption Analysis
10. Method of Standard Addition Results
11. Field Blanks
12. Element Quantification and Reported Detection Limits
13. Document Completeness
14. Overall Data Assessment

1.3.2 Organic Parameters

The validation of organic parameters for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

Volatile and Semivolatile Organics Analyses

1. Holding Times
2. GC/MS Instrument Tuning Criteria
3. Calibration
   a. Initial Calibration
   b. Continuing Calibration
4. Blank Analysis
5. Surrogate Recovery
6. Matrix Spike / Matrix Spike Duplicate Analysis
7. Reference Standard Analysis
8. Internal Standards Recovery
9. Compound Identification and Quantification
10. Field Duplicate Analysis
11. System Performance
12. Documentation Completeness
13. Overall Data Assessment

1.4 Data Qualifiers

The following qualifiers as specified in the guidance documents presented in Section 1.3 of this report have been used for this data validation.

U Indicates that the compound was analyzed for, but was not detected. The sample quantification limit is presented and adjusted for dilution. This qualifier is also used to signify that the detection limit of an analyte was raised due to blank contamination.

J Indicates that the result should be considered approximate. This qualifier is used when the data validation procedure identifies a deficiency in the data generation process.

UJ Indicates that the detection limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.

R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data are considered to be unusable for both qualitative and quantitative purposes.

The following sections of this document present a summary of the data validation process. Section 2 discusses data compliance with established QA/QC criteria and qualifications performed on the sample data. A discussion of the Precision, Accuracy, Representativeness, Comparability, and Completeness (PARCC) of the data and data usability are discussed in Section 3. The USEPA Region II Data Validation Checklists are presented in Appendix A.

SECTION 2 - DATA VALIDATION SUMMARY

This section presents a discussion of QA/QC parameter compliance with established criteria and the qualification of data performed when QA/QC parameter deviations were identified. When several deviations from established QA/QC criteria were observed, the final qualifier assigned to the data was based on the cumulative effect of the deviations.

2.1 Inorganics Analysis

Data validation was performed for two water samples for total inorganic parameters. The QA/QC parameters presented in Section 1.3.1 of this report were found to be within specified limits with the exception of the following:

Laboratory Duplicate Analysis

Laboratory duplicate criterion requires the relative percent difference (RPD) between duplicate analyses to be less than 35 percent (50 percent for soil samples). Qualification of sample results included the approximation of data for analytes with RPD values greater than 35 percent. Samples qualified due to laboratory duplicate analysis deviations are tabulated below.

Table 2: Inorganics Analysis - Laboratory Duplicate Deviations

Duplicate Sample ID	Inorganic	Relative Percent Difference	Qualifier	Affected Samples
MW-22	Selenium	57.6 %	UJ	MW-22 MW-13

ICP Serial Dilution Analysis

ICP serial dilution criteria require the percent difference (%D) between results of a non-diluted analysis and a four-fold dilution analysis to be less than 10 percent for analytes with a non-diluted concentration greater than 50 times the instrument detection limit (IDL). Analytes with %D values greater than 10 percent are qualified as approximated for samples with concentrations greater than 50 times the IDL. Analytes that exceeded ICP serial dilution criteria and the samples that required qualification are presented below.

Table 3: Inorganics Analysis - ICP Serial Dilution Deviations

Serial Dilution Sample ID	Inorganic	%D	Qualifier	Affected Samples
12D0913-04	Sodium	12.5 %	J	MW-22 MW-13

Overall Data Assessment

Overall, the laboratory performed inorganics analyses in accordance with the requirements specified in the methods listed in Section 1.2 of this report. These data have been determined to be usable for qualitative and quantitative purposes with

additional qualification. Sample results for several analytes were qualified based on deviations from laboratory duplicate and ICP serial dilution analysis criteria.

2.2 Volatiles Analysis

Data validation was performed for two soil samples, four water samples, and two trip blank samples for volatile organic parameters. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

Blank Analysis

The method blanks contained detectable concentrations of several target compounds. Blank action levels were calculated at ten times the blank concentrations for the common laboratory contaminants and five times for other target compounds. Detected sample results, which were less than the blank action levels were qualified with a "U" in the associated samples. Results that were detected below the contract required detection limit (CRDL) were raised to the CRDL and qualified with a "U" qualifier. The "U" qualifier indicates that the volatile organic was analyzed for but was not detected above the CRDL. Samples qualified for blank contamination are tabulated below.

Table 4: Volatile Organics Analysis - Blank Analysis Deviations

Blank Matrix	Date Analyzed	Compound	Blank Action Level[1]	Associated Samples	Qualified Sample Result
Soil	04/25/2012	Acetone	38 µg/Kg	SB-65 (8-12') SB-66 (12-16')	110 U µg/Kg 31 U µg/Kg
Soil	04/25/2012	Methylene Chloride	49 µg/Kg	SB-65 (8-12') SB-66 (12-16')	110 U µg/Kg 13 U µg/Kg
Water	05/01/2012	Methylene Chloride	65 µg/L	MW-13 TB-4/25/2012	10 U µg/L 10 U µg/L
Water BD40307	04/07/2014	Acetone	21 µg/L	MW-4	18 U µg/L
Water BD40342	04/08/2014	Methylene Chloride	11 µg/L	MW-21 TB-020120403	12 U µg/L 4.4 U µg/L
Water BD40392	04/08/2014	Acetone	14 µg/L	MW-8	500 U µg/L

1. Blank action level corrected for sample dilution and percent solids for each sample.

Initial Calibration

The initial calibration relative standard deviation (%RSD) limit, which requires the %RSD to be less than 30 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %RSD criteria were exceeded. Samples requiring qualification due to these deviations are tabulated below.

Table 5: Volatile Organics Analysis - Initial Calibration Deviations

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
04/17/2012 (09:30)	Methylene Chloride Acetone 1,4-Dioxane	36.35 % 36.78 % 45.26 %	UJ UJ UJ	SB-65 (8-12') SB-66 (12-16')
04/02/2014 (16:55)	Acetone 2-Butanone 1,2-Dibromo-3-chloropropane	43.23 % 37.24 % 33.19 %	J, UJ J, UJ UJ	MW-4 MW-8 MW-21 TB-020120403

Continuing Calibration

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 25 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Non-detected results were rejected (R) for compounds with %D values greater than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

Table 6: Volatile Organics Analysis - Continuing Calibration Deviations

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
04/25/2012 (11:00)	Dichlorodifluoromethane Acetone	45.4 % 56.6 %	UJ UJ	SB-65 (8-12') SB-66 (12-16')
04/07/2014 (08:52)	Bromomethane Acetone	38.8 % 37.8 %	UJ UJ	MW-4
04/08/2014 (12:02)	Bromomethane 2-Butanone	41.2 % 28.4 %	UJ J, UJ	MW-21 TB-020140403
04/08/2014 (22:51)	Bromomethane Acetone	43.3 % 30.1 %	UJ UJ	MW-8

Laboratory Control Sample Analysis

Laboratory control sample (LCS) recovery criteria requiring recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample data included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries that were less than 10 percent. Samples qualified due to LCS recovery deviations are tabulated below.

Table 7: Volatile Organics Analysis - Laboratory Control Sample Deviations

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples
Soil	1,4-Dioxane Acetone	3.37 %/3.65 % 47.7 %/43.3 %	70 % to 130 % 70 % to 130 %	R J, UJ	SB-65 (8-12') SB-66 (12-16')

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples
Water	Acetone	59.2 %/46.2 %	70 % to 130 %	UJ	MW-13 TB-4/25/2012
Water	Bromodichloromethane Trichloroethylene	82.8 %/81.3 % 82.5 %/88.6 %	84 % to 117 % 85 % to 115 %	UJ UJ	MW-4

Surrogate Recovery

Surrogate compounds are added to the samples prior to sample preparation to evaluate the efficiency of the sample preparation procedures. The data validation guidelines require the surrogate compounds to have percent recovery values within the prescribed control limits. When one or more of the surrogate compounds exceed the recovery limits the associated sample data require qualification. Samples that required qualification for surrogate compound deficiencies are tabulated below.

Table 8: Volatile Organics Analysis - Surrogate Compound Deviations

Sample ID	Surrogate Compound	Surrogate Recovery	Control Limits	Qualifier	Affected Compounds
SB-65 (8-12')	p-Bromofluorobenzene	173 %	63.5 % to 145 %	J	All detected compounds

Internal Standards Recovery

The internal standard areas exceeded recovery limits for several samples. Qualification of sample results included the approximation of results when recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 25 percent. Samples qualified due to internal standard recovery deviations are tabulated below.

Table 9: Volatile Organics Analysis - Internal Standard Deviations

Sample ID	Internal Standard	Percent Recovery	Affected Compounds	Qualifier
SB-65 (8-12')	1,2-Dichlorobenzene-d4	37.6 %	Bromoform	UJ
			1,1,2,2-Tetrachloroethane	UJ
			1,2,3-Trichlroropropane	UJ
			Bromobenzene	UJ
			n-Propylbenzene	J
			2-Chlorotoluene	UJ
			4-Chlorotoluene	UJ
			tert-Butylbenzene	UJ
			1,3,5-Trimethylbenzene	J
			1,2,4-Trimethylbenzene	J
			sec-Butylbenzene	UJ
			1,3-Dichlorobenzene	UJ
			1,4-Dichlorobenzene	UJ
			1,2-Dichlorobenzene	UJ
			p-Isopropyltoluene	UJ
			n-Butylbenzene	UJ
			1,2-Dibromo-3-chloropropane	UJ
			1,2,4-Trichlorobenzene	UJ
			Naphthalene	UJ
			Hexachlorobutadiene	UJ
			1,2,3-Trichlorobenzene	UJ

Overall Data Assessment

Overall, the laboratory performed volatile organics analyses in accordance with the requirements specified in the method listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes with the exception of non-detected sample results for 1,4-Dioxane for two samples which were rejected due to deviations from laboratory control sample criteria. Sample results for several compounds were qualified based on deviations from blank analysis, initial calibration, continuing calibration, laboratory control sample, internal standard recovery, and surrogate recovery criteria.

2.3 Semivolatiles Analysis

Data validation was performed for two soil samples for semivolatile organic parameters. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

Continuing Calibration

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 25 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

Table 10: Semivolatile Organics Analysis - Continuing Calibration Deviations

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
04/26/2012 (10:17)	N-Nitrosodimethylamine Benzyl Alcohol 4-Chloroaniline	38.4 % 41.5 % 43.7 %	UJ UJ UJ	SB-65 (8-12')

Matrix Spike Recovery

The MS/MSD analysis of sample SB-65 (8-12') exhibited recoveries that were outside of prescribed limits for a majority of the compounds due to the sample dilution required to properly quantify the detected concentration of bis(2-ethylhexyl). Sample qualification was not required due to this deviation because the matrix spike concentrations were diluted below the linear calibration range of the instrumentation.

Sample Dilution

The diluted sample analysis of SB-65 (8-12') exceeded the linear calibration range of the instrumentation for bis(2-ethylhexyl)phthalate with a sample concentration of 49,400,000 DE µg/Kg. The bis(2-ethylhexyl)phthalate result for sample SB-65 (8-12') was qualified as approximated (J) because the sample was not re-analyzed with sufficient dilution to properly quantify the bis(2-ethylhexyl)phthalate concentration.

Surrogate Recovery

The surrogate recoveries for several of the soil samples were outside of prescribed limits due to the sample dilution required to properly quantify the detected concentrations of target compounds Sample qualification was not required due to these deviations because the surrogate compound concentrations were diluted below the linear calibration range of the instrumentation.

Overall Data Assessment

Overall, the laboratory performed semivolatile organics analyses in accordance with the requirements specified in the method listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes with additional qualification. Sample results for several compounds were qualified based on deviations continuing calibration criteria.

SECTION 3 - DATA USABILITY and PARCC EVALUATION

3.1 Data Usability

This section presents a summary of the usability of the analytical data and an evaluation of the PARCC parameters. Data usability was calculated as the percentage of data that was not qualified as rejected based on a significant deviation from established QA/QC criteria. Data usability, which was calculated separately for each type of analysis, is tabulated below.

Table 11: Data Usability and PARCC Evaluation - Data Usability

Parameter	Usability	Deviations
Inorganic Parameters	100 %	None resulting in the rejection of data
Volatile Organics	99.61 %	1,4-Dioxane results for two samples were rejected due to deviations from laboratory control sample criteria
Semivolatile Organics	100 %	None resulting in the rejection of data

3.2 PARCC Evaluation

The following sections provide an evaluation of the analytical data with respect to the precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters.

3.2.1 Precision

Precision is measured through field duplicate samples, split samples, and laboratory duplicate samples. For this sampling program, none of the data were qualified for field duplicate criteria deviations and 0.29 percent of the data were qualified for laboratory duplicate criteria deviations.

3.2.2 Accuracy

Matrix spike sample, surrogate recovery, internal standard recovery, laboratory control samples, and calibration criteria indicate the accuracy of the data. For this sampling program, none of the analytical data were qualified for deviations from matrix spike recovery criteria; 1.59 percent of of the data were qualified for surrogate recovery criteria deviations; 3.04 percent of the data were qualified for internal standard recovery criteria deviations; 1.74 percent of the data were qualified for laboratory control sample deviations; and 4.78 percent of the data were qualified for calibration criteria deviations.

3.2.3 Representativeness

Holding times, sample preservation, and blank analysis are indicators of the representativeness of the analytical data. For this investigation, none of the analytical data required qualification for holding time deviations and 1.45 percent of the analytical data required qualification for blank analysis deviations.

3.2.4 Comparability

Comparability is not compromised provided that the analytical methods did not change over time. A major component of comparability is the use of standard reference materials for calibration and QC. These standards are compared to other unknowns to verify their concentrations. Since standard analytical methods and reporting procedures were consistently used by the laboratory, the comparability criteria for the analytical data were met.

3.2.5 Completeness

The overall percent usability or completeness of the data was 99.71 percent.

APPENDIX A

DATA VALIDATION CHECKLISTS

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Data Validation Checklist - Part A: VOA Analysis

No:	Parameter	YES	NO	N/A
1.0	**Traffic Reports and Laboratory Narrative**			
1.1	Are the traffic Report Forms present for all samples?	X		
1.2	Do the Traffic Reports or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?		X	
2.0	**Holding Times**			
2.1	Have any VOA technical holding times, determined from date of collection to date of analysis, been exceeded?		X	
3.0	**System Monitoring Compound (SMC) Recovery (Form II)**			
3.1	Are the VOA SMC Recovery Summaries (FORM II) present for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
3.2	Are all the VOA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
3.3	Were outliers marked correctly with an asterisk?	X		
3.4	Was one or more VOA system monitoring compound recovery outside of contract specifications for any sample or method blank?	X		
	If yes, were samples re-analyzed?		X	
	Were method blanks re-analyzed?			X
3.5	Are there any transcription/calculation errors between raw data and Form II?		X	
4.0	**Matrix Spikes (Form III)**			
4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?		X	
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices?			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
4.3	How many VOA spike recoveries are outside QC limits?			
	Water 0 out of 64 Soils 0 out of 64			
4.4	How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits?			
	Water 0 out of 64 Soils 0 out of 64			

Data Validation Checklist - Part A: VOA Analysis

No:	Parameter	YES	NO	N/A
5.0	**Blanks (Form IV)**			
5.1	Is the Method Blank Summary (Form IV) present?	X		
5.2	Frequency of Analysis: for the analysis of VOA TCL compounds, has a reagent/method blank been analyzed for each SDG or every 20 samples of similar matrix (low water, low soil, medium soil), whichever is more frequent?	X		
5.3	Has a VOA method/instrument blank been analyzed at least once every twelve hours for each concentration level and GC/MS system used?	X		
5.4	Is the chromatographic performance (baseline stability) for each instrument acceptable for VOAs?	X		
6.0	**Contamination**			
6.1	Do any method/instrument/reagent blanks have positive results (TCL and/or TIC) for VOAs?	X		
6.2	Do any field/trip/rinse blanks have positive VOA results (TCL and/or TIC)?	X		
6.3	Are there field/rinse/equipment blanks associated with every sample?	X		
7.0	**GC/MS Instrument Performance Check (Form V)**			
7.1	Are the GC/MS Instrument Performance Check Forms (Form V) present for Bromofluorobenzene (BFB)?	X		
7.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift?	X		
7.3	Has an instrument performance compound been analyzed for every twelve hours of sample analysis per instrument?	X		
7.4	Have the ion abundances been normalized to m/z 95?	X		
7.5	Have the ion abundance criteria been met for each instrument used?	X		
7.6	Are there any transcription/calculation errors between mass lists and Form V's?		X	
7.7	Have the appropriate number of significant figures (two) been reported?	X		
7.8	Are the spectra of the mass calibration compound acceptable?	X		
8.0	**Target Compound List (TCL) Analytes**			
8.1	Are the Organic Analysis Data Sheets (Form I VOA) present with required header information on each page, for each of the following:			
	a. Sample and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates?	X		
	c. Blanks?	X		
8.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?			
	a. Samples and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates (Mass spectra not required)?	X		
	c. Blanks?	X		
8.3	Are the response factors shown in the Quant Report?	X		

Data Validation Checklist - Part A: VOA Analysis

No:	Parameter	YES	NO	N/A
8.4	Is the chromatographic performance acceptable with respect to:			
	Baseline stability?	X		
	Resolution?	X		
	Peak shape?	X		
	Full-scale graph (attenuation)?	X		
	Other:			
8.5	Are the lab-generated standard mass spectra of the identified VOA compounds present for each sample?	X		
8.6	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	X		
8.7	Are all ions in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	X		
8.8	Do sample and standard relative ion intensities agree within 20%?	X		
9.0	**Tentatively Identified Compounds (TIC)**			
9.1	Are all Tentatively Identified Compound Forms (Form I Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?	X		
9.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?	X		
	b. Blanks?	X		
9.3	Are any TCL compounds (from any fraction) listed as TIC compounds?		X	
9.4	Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	X		
9.5	Do TIC and "best match" standard relative ion intensities agree within 20%?	X		
10.0	**Compound Quantitation and Reported Detection Limits**			
10.1	Are there any transcription/calculation errors in Form I results?		X	
10.2	Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
11.0	**Standards Data (GC/MS)**			
11.1	Are the Reconstructed Ion Chromatograms, and data system printouts present for initial and continuing calibration?	X		
12.0	**GC/MS Initial Calibration (Form VI)**			
12.1	Are the Initial Calibration Forms (Form VI) present and complete for the volatile fraction at concentrations of 10, 20, 50, 100, 200 ug/L? Are there separate calibrations for low/med soils and low soil samples?	X		
12.2	Were all low level soil standards, blanks, and samples analyzed by heated purge?	X		
12.3	Are the response factors stable for VOA's over the concentration range of the calibration (%Relative Standard Deviation (%RSD) <30%)		X	
12.4	Are the RRFs above 0.01?	X		
12.5	Are there any transcription/calculation errors in the reporting of average response factors (RRF) or %RSD?		X	

Data Validation Checklist - Part A: VOA Analysis

No:	Parameter	YES	NO	N/A
13.0	**GC/MS Continuing Calibration (Form VII)**			
13.1	Are the Continuing Calibration Forms (Form VII) present and complete for the volatile fraction?	X		
13.2	Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?	X		
13.3	Do any volatile compounds have a %Difference (%D) between the initial and continuing RRF which exceeds the +/- 25% criteria?	X		
13.4	Do any volatile compounds have a RRF <0.01?		X	
13.5	Are there any transcription/calculation errors in the reporting of average response factor (RRF) or %difference (%D) between initial and continuing RRFs?		X	
14.0	**Internal Standard (Form VIII)**			
14.1	Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration?		X	
14.2	Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
15.0	**Field Duplicates**			
15.1	Were any field duplicates submitted for VOA analysis?		X	

Data Validation Checklist - Part B: SVOC Analysis

No:	Parameter	YES	NO	N/A
1.0	**Traffic Reports and Laboratory Narrative**			
1.1	Are the traffic Report Forms present for all samples?	X		
1.2	Do the Traffic Reports or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?		X	
2.0	**Holding Times**			
2.1	Have any BNA technical holding times, determined from date of collection to date of extraction, been exceeded?		X	
3.0	**System Monitoring Compound (SMC) Recovery (Form II)**			
3.1	Are the BNA Surrogate Recovery Summaries (FORM II) present for each of the following matrices:			
	a. Low Water			X
	b. Low Soil	X		
	c. Med Soil			X
3.2	Are all the BNA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
	a. Low Water			X
	b. Low Soil	X		
	c. Med Soil			X
3.3	Were outliers marked correctly with an asterisk?	X		
3.4	Were two or more base neutral or acid surrogate compound recoveries out of specification for any sample or method blank?		X	
	If yes, were samples re-analyzed?		X	
	Were method blanks re-analyzed?			X
3.5	Are there any transcription/calculation errors between raw data and Form II?		X	
4.0	**Matrix Spikes (Form III)**			
4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?	X		
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices?			X
	a. Low Water	X		
	b. Low Soil	X		
	c. Med Soil			X
4.3	How many BNA spike recoveries are outside QC limits?			
	Water 0 out of 66 Soils 0 out of 66			

Data Validation Checklist - Part B: SVOC Analysis

No:	Parameter	YES	NO	N/A
4.4	How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits?			
	Water ___0___ out of 66 Soils ___0___ out of 66			
5.0	**Blanks (Form IV)**			
5.1	Is the Method Blank Summary (Form IV) present?	X		
5.2	Frequency of Analysis: Has a reagent/method blank analysis been reported per 20 samples of a similar matrix, or concentration level, for each extraction batch?	X		
5.3	Has a BNA method blank been analyzed for each GC/MS system used?	X		
5.4	Is the chromatographic performance (baseline stability) for each instrument acceptable for BNAs?	X		
6.0	**Contamination**			
6.1	Do any method/instrument/reagent blanks have positive results (TCL and/or TIC) for BNAs?		X	
6.2	Do any field/rinse blanks have positive BNA results (TCL and/or TIC)?		X	
6.3	Are there field/rinse/equipment blanks associated with every sample?		X	
7.0	**GC/MS Instrument Performance Check (Form V)**			
7.1	Are the GC/MS Instrument Performance Check Forms (Form V) present for Decafluorotriphenylphosphine (DFTPP)?	X		
7.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the DFTPP provided for each twelve-hour shift?	X		
7.3	Has an instrument performance check solution been analyzed for every twelve hours of sample analysis per instrument?	X		
7.4	Have the ion abundances been normalized to m/z 198?	X		
7.5	Have the ion abundance criteria been met for each instrument used?	X		
7.6	Are there any transcription/calculation errors between mass lists and Form V's?		X	
7.7	Have the appropriate number of significant figures (two) been reported?	X		
7.8	Are the spectra of the mass calibration compound acceptable?	X		
8.0	**Target Compound List (TCL) Analytes**			
8.1	Are the Organic Analysis Data Sheets (Form I BNA) present with required header information on each page, for each of the following:			
	a. Sample and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates?	X		
	c. Blanks?	X		
8.2	Has GPC cleanup been performed on all soil/sediment sample extracts?			X
8.3	Are the BNA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?			

Data Validation Checklist - Part B: SVOC Analysis

No:	Parameter	YES	NO	N/A
	a. Samples and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates (Mass spectra not required)?	X		
	c. Blanks?	X		
8.4	Are the response factors shown in the Quant Report?	X		
8.5	Is the chromatographic performance acceptable with respect to:			
	Baseline stability?	X		
	Resolution	X		
	Peak shape?	X		
	Full-scale graph (attenuation)?	X		
	Other:			
8.6	Are the lab-generated standard mass spectra of identified BNA compounds present for each sample?	X		
8.7	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	X		
8.8	Are all ions in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	X		
8.9	Do sample and standard relative ion intensities agree within 20%?	X		
9.0	**Tentatively Identified Compounds (TIC)**			
9.1	Are all Tentatively Identified Compound Forms (Form I, Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?	X		
9.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?	X		
	b. Blanks?	X		
9.3	Are any TCL compounds (from any fraction) listed as TIC compounds?		X	
9.4	Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?	X		
9.5	Do TIC and "best match" standard relative ion intensities agree within 20%?	X		
10.0	**Compound Quantitation and Reported Detection Limits**			
10.1	Are there any transcription/calculation errors in Form I results?		X	
10.2	Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
11.0	**Standards Data (GC/MS)**			
11.1	Are the Reconstructed Ion Chromatograms, and data system printouts present for initial and continuing calibration?	X		
12.0	**GC/MS Initial Calibration (Form VI)**			

Data Validation Checklist - Part B: SVOC Analysis

No:	Parameter	YES	NO	N/A
12.1	Are the Initial Calibration Forms (Form VI) present and complete for the BNA fraction ?	X		
12.2	Are response factors stable for BNA's over the concentration range of the calibration (%Relative Standard Deviation (%RSD) <30%)	X		
12.3	Are all BNA compound RRFs > 0.01?	X		
12.4	Are there any transcription/calculation errors in the reporting of average response factors (RRF) or %RSD?	X		
13.0	**GC/MS Continuing Calibration (Form VII)**			
13.1	Are the Continuing Calibration Forms (Form VII) present and complete for the BNA fraction?	X		
13.2	Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?	X		
13.3	Do any semivolatile compounds have a %Difference (%D) between the initial and continuing RRF which exceeds the +/- 25% criteria?	X		
13.4	Do any semivolatile compounds have a RRF <0.01?		X	
13.5	Are there any transcription/calculation errors in the reporting of average response factor (RRF) or %difference (%D) between initial and continuing RRFs?	X		
14.0	**Internal Standard (Form VIII)**			
14.1	Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration?	X		
14.2	Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
15.0	**Field Duplicates**			
15.1	Were any field duplicates submitted for BNA analysis?		X	

Data Validation Checklist - Part C: Metals Analysis

No:	Parameter	YES	NO	N/A
1.0	**Form I to IX**			
1.1	Are all the Form I through Form IX labeled with:			
	Laboratory Name?	X		
	Case/SAS No.?		X	
	EPA sample No.?		X	
	SDG No.?	X		
	Contract No.?	X		
	Correct units?	X		
	Matrix?	X		
1.2	Do any computer/transcription errors exceed 10% of reported values on Forms I-IX for:			
	A. All analytes analyzed by ICP?		X	
	B. All analytes analyzed by GFAA?			X
	C. All analytes analyzed by AA Flame?			X
	D. Mercury?		X	
	E. Cyanide?			X
2.0	**Raw Data**			
2.1	Digestion Log for flame AA/ICP (Form XIII) present?	X		
2.2	Digestion Log for furnace AA (Form XIII) present?			X
2.3	Distillation Log for mercury (Form XIII) present?	X		
2.4	Distillation Log for cyanides (Form XIII) present?			X
2.5	Are pH values (pH<2 for all metals, pH>12 for cyanide) present?	X		
2.6	Percent solids calculation dates present on sample preparation logs/bench sheets?	X		
2.7	Are preparation dates present on sample preparation logs/bench sheets?	X		
2.8	Measurement read out record present?			
	A. ICP	X		
	B. Flame AA			X
	C. Furnace AA			X
	D. Mercury	X		
	E. Cyanides			X
2.9	Are all raw data to support all sample analyses and QC operations present?			X
3.0	**Holding Times**			
3.1	A. Mercury analysis (28 days) .....exceeded?		X	
	B. Cyanide distillation (14 days) .....exceeded?			X
	C. Other Metals analysis (6 months) .....exceeded?		X	
3.2	Is pH of aqueous samples for:			
	A. Metals Analysis >2?		X	

Data Validation Checklist - Part C: Metals Analysis

No:	Parameter	YES	NO	N/A
	B. Cyanides Analysis <12?			X
4.0	**Form I (Final Data)**			
4.1	Are all Forms I's present and complete?	X		
4.2	Are correct units (ug/l for waters and mg/kg for soils) indicated on Form I's?	X		
4.3	Are soil sample results for each parameter corrected for percent solids?	X		
4.4	Are all "less than IDL" values properly coded with "U"?	X		
4.5	Are the correct concentration qualifiers used with final data?	X		
4.6	Are EPA sample #s and corresponding laboratory sample ID #s the same as on the Cover Page, Form I's and in the raw data?	X		
4.7	Was a brief physical description of samples given on Form I's?	X		
4.8	Was the dilution of any sample diluted beyond the requirements of the contract noted on Form I or Form XIV?		X	
5.0	**Calibration**			
5.1	Is record of at least 2 point calibration present for ICP analysis?	X		
5.2	Is record of 5 point calibration present for Hg analysis?	X		
5.3	Is record of 4 point calibration present for:			X
	Flame AA?			X
	Furnace AA?			X
	Cyanides?			X
5.4	Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?	X		
5.5	Is correlation coefficient less than 0.995 for:			
	Mercury Analysis?	X		
	Cyanide Analysis?			X
	Atomic Absorption Analysis?			X
5.6	In the instance where less than 4 standards are measured in absorbance (or peak area, peak height, etc.) Mode, are remaining standards analyzed in concentration mode immediately after calibration within +/- 10% of the true values?			X
6.0	**Form II A (Initial and Continuing Calibration Verification)**			
6.1	Present and complete for every metal and cyanide?	X		
6.2	Present and complete for AA ICP when both are used for the same analyte?			X
6.3	Are all calibration standards (initial and continuing) within control limits:			
	Metals - 90 - 110 %R		X	
	Hg - 80 - 120 %R	X		
	Cyanides - 85 - 115 %R			X
6.4	Was continuing calibration performed every 10 samples or every 2 hours?	X		
6.5	Was ICV for cyanides distilled?			X

Data Validation Checklist - Part C: Metals Analysis

No:	Parameter	YES	NO	N/A
7.0	**Form II B (CRDL Standards for AA and ICP)**			
7.1	Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	X		
7.2	Was a mid range calibration verification standard distilled and analyzed for cyanide analysis?	X		
7.3	Was a 2xCRDL (or 2xIDL when IDL>CRDL) analyzed (CRI) for each ICP run?	X		
7.4	Was CRI analyzed after ICV/ICB and before the final CCV/CCB, and twice every eight hours of ICP run?	X		
7.5	Are CRA and CRI standards within control limits: Metals 70 – 130 %R?	X		
7.6	Is mid-range standard within control limits: Cyanide 70 - 130 %R?			X
8.0	**Form III (Initial and Continuing Calibration Blanks)**			
8.1	Present and complete?	X		
8.2	For both AA and ICP when both are used for the same analyte?			X
8.3	Was an initial calibration blank analyzed?	X		
8.4	Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X		
8.5	Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?	X		
8.6	Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?			X
9.0	**Form III (Preparation Blank)**			
9.1	Was one preparation blank analyzed for:			
	each Sample Delivery Group?	X		
9.2	Is concentration of preparation blank value greater than the CRDL when IDL is less than or equal to CRDL?		X	
9.3	If yes, is the concentration of the sample with the least concentrated analyte less than 10 times the preparation blank?			X
9.4	Is concentration of preparation blank value (Form III) less than two times IDL, when IDL is greater than CRDL?			X
9.5	Is concentration of preparation blank below the negative CRDL?		X	
10.0	**Form IV (Interference Check Sample)**			
10.1	Present and Complete?	X		
10.2	Are all Interference Check Sample results inside the control limits (+/- 20%)?	X		
10.3	If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?			X
11.0	**Form V A (Spiked Sample recovery - Pre-Digestion/Pre-Distillation**			
11.1	Present and complete for:			
	each SDG?	X		
	each matrix type?	X		
	each concentration range (i.e., low, medium, high)?	X		

Data Validation Checklist - Part C: Metals Analysis

No:	Parameter	YES	NO	N/A
	For both AA and ICP when both are used for the same analyte?			X
11.2	Was field blank used for spiked sample?		X	
11.3	Are all recoveries within control limits?		X	
11.4	If no, is sample concentration greater than or equal to four times spike concentration?	X		
12.0	**Form VI (Lab Duplicates)**			
12.1	Present and complete for :			
	each SDG?	X		
	each matrix type?	X		
	each concentration range (i.e., low, medium, high)?	X		
	both AA and ICP when both are used for the same analyte?			X
12.2	Was field blank used for duplicate analysis?		X	
12.3	Are all values within control limits (RPD 35% or difference </= +/-CRDL)?	X		
12.4	If no, are all results outside the control limits flagged with an * on Form I's and VI?			X
13.0	**Field Duplicates**			
13.1	Were field duplicates analyzed?		X	
13.2	**Aqueous**			
	Is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5 times CRDL?			X
	Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?			X
13.3	**Soil/Sediment**			
	Is any RPD (where sample and duplicate are both greater than 5 times CRDL): >100%?			X
	Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL): >2x CRDL?			X
14.0	**Form VII (Laboratory Control Sample)**			
14.1	Was one LCS prepared and analyzed for:			
	each SDG?	X		
	each batch samples digested/distilled?	X		
	both AA and ICP when both are used for the same analyte?			X
14.2	**Aqueous LCS**			
	Is any LCS recovery:			
	less than 50%?		X	
	between 50% and 79%?		X	
	between 121% and 150%?		X	
	greater than 150%?		X	
14.3	**Solid LCS**			
	Is LCS "Found" value higher than the control limits on Form VII?		X	

Data Validation Checklist - Part C: Metals Analysis

No:	Parameter	YES	NO	N/A
	Is LCS "Found" value lower than the control limits on Form VII?		X	
15.0	**Form IX (ICP Serial Dilution)**			
15.1	Was serial dilution analysis performed for:			
	each SDG?	X		
	each matrix type?	X		
	each concentration range (i.e., low, medium, high)?	X		
15.2	Was field blank(s) used for Serial Dilution Analysis?		X	
15.3	Are results outside control limit flagged with an "E" on Form I's and Form IX when initial concentration on Form IX is equal to 50 times IDL or greater?	X		
15.4	Are any %difference values:			
	>10%	X		
	>/=100%		X	
16.0	**Furnace Atomic Absorption (AA) QC Analysis**			
16.1	Are duplicate injections present in furnace raw data for each sample analyzed by GFAA?			X
16.2	Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or Coefficient of Variation (CV) for concentration greater than CRDL?			X
16.3	Was a dilution analyzed for sample with analytical spike recovery less than 40%?			X
16.4	Is analytical spike recovery outside the control limits (85 - 115%) for any sample?			X
17.0	**Form VIII (Method of Standard Addition Results)**			
17.1	Present?			X
17.2	If no, is any Form I result coded with "S" or a "+"?			X
17.3	Is coefficient of correlation for MSA less than 0.990 for any sample?			X
17.4	Was MSA required for any sample but not performed?			X
17.5	Is coefficient of correlation for MSA less than 0.995?			X
17.6	Are MSA calculations outside the linear range of the calibration curve generated at the beginning of the analytical run?			X
17.7	Was proper Quantitation procedure followed correctly as outlined in the SOW on page E-23?			X
18.0	**Dissolved/Total or Inorganic/Total Analytes**			
18.1	Were any analyses performed for dissolved as well as total analytes on the same sample(s)?		X	
18.2	Were any analyses performed for inorganic as well as total (organic and inorganic) analytes on the same sample(s)?	X		
18.3	Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 10%?		X	
18.4	Is the concentration of any dissolved (or inorganic) analyte greater than its total concentration by more than 50%?		X	

Data Validation Checklist - Part C: Metals Analysis

No:	Parameter	YES	NO	N/A
19.0	**Form I (Field Blank)**			
19.1	Is field blank concentration less than CRDL (or 2 x IDL when IDL>CRDL) for all parameters of associated aqueous and soil samples?	X		
19.2	If no, was field blank value already rejected due to other QC criteria?			X
20.0	**Form X, XI, XII (Verification of Instrumental Parameters)**			
20.1	Is verification report present for:			
	Instrument Detection Limits (quarterly)?	X		
	ICP Interelement Correction Factors (annually)?	X		
	ICP Linear Ranges (quarterly)?	X		
21.0	**Form X (Instrument Detection Limits)**			
21.1	Are IDLs present for:			
	all the analytes?	X		
	all the instruments used?	X		
	For both AA and ICP when both are used for the same analyte?			X
21.2	Is IDL greater than CRDL for any analytes?		X	
21.3	If yes, is the concentration on Form I of the sample analyzed on the instrument whose IDL exceeds CRDL, greater than 5 x IDL?			X
22.0	**Form XI (Linear Ranges)**			
22.1	Was any sample result higher than the high linear range of ICP?		X	
22.2	Was any sample result higher than the highest calibration standard for non-ICP parameters?		X	
22.3	If yes for any of the above, was the sample diluted to obtain the result on Form I?			X
23.0	**Percent Solids of Sediments**			
23.1	Are percent solids in sediment(s):			
	<50%?		X	
	<10%?		X	

Data Usability Summary Report

FORMER NUHART PLASTICS SITE
280 FRANKLIN STREET, BROOKLYN, NY
NYSDEC SITE #224136

Samples Collected
July 2014 to December 2014

May 2015

ZDataReports
Data Management and Validation Services
118 Rose Lane Terrace, Syracuse, NY 13219, (716) 907-2341

Data Usability Summary Report

Samples Collected
July 2014 to December 2014

Former NuHart Plastics Site
Brooklyn, New York
NYSDEC SITE #224136

Prepared By:

ZDataReports
Data Management and Validation Service
118 Rose Lane Terrace
Syracuse, New York 13219

EXECUTIVE SUMMARY

This report addresses data quality for soil, water and air samples collected at the Former NuHart Plastics Site - NYSDEC SITE #224136. The samples were analyzed for volatile organics (VOCs) and semivolatile organics (SVOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Ecosystems Strategies, Inc. of Poughkeepsie, New York. Analytical services were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut and Alpha Analytical, Inc. in Westborough, Massachusetts.

The data were determined to be usable for qualitative and quantitative purposes with no exceptions. Sample results for several compounds were also qualified based on deviations from method blank, initial calibration criteria, continuing calibration criteria and laboratory control sample criteria.

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Appendices

Appendix A - Data Validation Checklists

SECTION 1 - INTRODUCTION

1.1 Introduction

This report addresses data quality for soil, water and air samples collected at Former NuHArt Plastics Site - NYSDEC SITE #224136 located in Brooklyn, New York. The samples were analyzed for volatile organics (VOCs) and semivolatile organics (SVOCs) following New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) methodologies. Sample collection was performed by Ecosystems Strategies, Inc. of Poughkeepsie, New York. Analytical services for water and soil samples were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut. Air samples were analyzed by Alpha Analytical, Inc. located in Westborough, Massachusetts. The quantity and types of samples submitted for data validation are tabulated below.

Table 1: Introduction - Sample Summary Table

SDG#	Date Collected	Matrix	Sample Identification	
			Client ID	Laboratory ID
14H0096	7/30/2014	Soil	MW-36 (11-12)	14H0096-01
			MW-37 (11-12)	14H0096-02
			MW-DUP-01	14H0096-03
		Water	TB-20140730	14H0096-04
14I1048	09/22/2014 to 09/24/2014	Soil	3SB-3A (0-5)	14T1048-01
			3SB-3A (10-15)	14T1048-02
			3SB-3B (15-20)	14T1048-03
			3SB-4 (0-5)	14T1048-04
			3SB-4 (15-20)	14T1048-05
			3SB-4 (20-25)	14T1048-06
			3SB-5 (0-5)	14T1048-07
			3SB-5 (10-15)	14T1048-08
			3SB-5 (15-20)	14T1048-09
			3SB-6 (20-25)	14T1048-10
			3SB-6 (25-30)	14T1048-11
			3SB-7 (0-5)	14T1048-12
			3SB-7 (10-15)	14T1048-13
			3SB-8 (0-5)	14T1048-14
			3SB-8 (15-20)	14T1048-15
			3SB-9 (0-5)	14T1048-16
			3SB-9 (15-20)	14T1048-17
			3SB-9 (20-25)	14T1048-18
			MW-38 (0-5)	14T1048-19
			MW-38 (10-15)	14T1048-20
			MW-39 (0-5)	14T1048-21
			MW-39 (10-11)	14T1048-22
			MW-40 (0-5)	14T1048-23
			MW-40 (15-20)	14T1048-24
			3SB-DUP	14T1048-25
	9/22/2014 to 09/24/2014	Water	TB-20140922	14T1048-26
			TB-20140923	14T1048-27
			TB-20140924	14T1048-28

SDG#	Date Collected	Matrix	Sample Identification	
			Client ID	Laboratory ID
14J0546	10/08/2014 and 10/09/2014	Water	MW-7	14J0546-01
			MW-8	14J0546-02
			MW-12	14J0546-03
			MW-13	14J0546-04
			MW-14	14J0546-05
			MW-14A	14J0546-06
			MW-18	14J0546-07
			MW-22	14J0546-08
			MW-34	14J0546-09
			MW-38	14J0546-10
			MW-39	14J0546-11
			MW-40	14J0546-12
			TB-20141008	14J0546-13
			TB-20141009	14J0546-14
14J0506	12/10/2014	Soil	MW-41 (8-10)	14J0506-01
			MW-42 (8-10)	14J0506-02
			MW-DUP-02	14J0506-03
		Water	TB-20141210	14J0506-04
14L0993	12/23/2014	Water	MW-36	14L0993-01
			MW-36A	14L0993-02
			MW-37	14L0993-03
			MW-41	14L0993-04
			MW-42	14L0993-05
			TB20141223	14L0993-06
L1422298	9/22/2014	Air	3SB-1	L1422298-01
			3SB-2	L1422298-02

1.2 Analytical Methods

The samples were analyzed for VOCs and SVOCs following NYSDEC Analytical Services Protocol (ASP) methodologies (2005 update). Laboratory analyses were provided by York Analytical Laboratories, Inc. located in Stratford, Connecticut.

1.3 Validation Protocols

Data validation is a process that involves the evaluation of analytical data against prescribed quality control criteria to determine the usefulness of the data. The analytical data addressed in this report were evaluated utilizing the quality control criteria presented in the following documents:

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA-540-R-08-01, June 2008.
- *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6 Revision #14, USEPA Region II, September 2006.
- *Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO5.3*, SOP No. HW-2, Revision #13, USEPA Region II, September 2006.
- *Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8260B*, SOP No. HW-24 Revision #2, USEPA Hazardous Waste Support Branch, August 2008.
- *Validating Semivolatile Organic Compounds By Gas Chromatography/Mass Spectrometry SW-846 Method 8270D*, SOP No. HW-22 Revision #4, USEPA Hazardous Waste Support Branch, August 2008.
- *Validating Air Samples Volatile Organic Analysis of Ambient Air in Canister by Method TO-15*, SOP No. HW-31 Revision #4, USEPA Hazardous Waste Support Branch, October 2006.
- *Exhibit E of New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP)*, NYSDEC June 2005.

1.3.1 Organic Parameters

The validation of organic parameters for this project followed the requirements presented in the analytical methodology and the data validation guidelines presented above. The following QA/QC parameters were evaluated:

Volatile and Semivolatile Organics Analyses

1. Holding Times
2. GC/MS Instrument Tuning Criteria
3. Calibration
   a. Initial Calibration
   b. Continuing Calibration
4. Blank Analysis
5. Surrogate Recovery
6. Matrix Spike / Matrix Spike Duplicate Analysis
7. Reference Standard Analysis
8. Internal Standards Recovery
9. Compound Identification and Quantification
10. Field Duplicate Analysis
11. System Performance
12. Documentation Completeness
13. Overall Data Assessment

1.4 Data Qualifiers

The following qualifiers as specified in the guidance documents presented in Section 1.3 of this report have been used for this data validation.

U — Indicates that the compound was analyzed for, but was not detected. The sample quantification limit is presented and adjusted for dilution. This qualifier is also used to signify that the detection limit of an analyte was raised due to blank contamination.

J — Indicates that the result should be considered approximate. This qualifier is used when the data validation procedure identifies a deficiency in the data generation process.

UJ — Indicates that the detection limit for the analyte in this sample should be considered approximate. This qualifier is used when the data validation process identifies a deficiency in the data generation process.

R — Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data are considered to be unusable for both qualitative and quantitative purposes.

The following sections of this document present a summary of the data validation process. Section 2 discusses data compliance with established QA/QC criteria and qualifications performed on the sample data. A discussion of the Precision, Accuracy, Representativeness, Comparability, and Completeness (PARCC) of the data and data usability are discussed in Section 3. The USEPA Region II Data Validation Checklists are presented in Appendix A.

SECTION 2 - DATA VALIDATION SUMMARY

This section presents a discussion of QA/QC parameter compliance with established criteria and the qualification of data performed when QA/QC parameter deviations were identified. When several deviations from established QA/QC criteria were observed, the final qualifier assigned to the data was based on the cumulative effect of the deviations.

2.1 Volatiles Analysis

Data validation was performed for 2 groundwater samples including a trip blank sample. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

Blank Analysis

The method blanks contained detectable concentrations of several target compounds. Blank action levels were calculated at ten times the blank concentrations for the common laboratory contaminants and five times for other target compounds. Detected sample results, which were less than the blank action levels were qualified with a "U" in the associated samples. Results that were detected below the contract required detection limit (CRDL) were raised to the CRDL and qualified with a "U" qualifier. The "U" qualifier indicates that the volatile organic was analyzed for but was not detected above the CRDL. Samples qualified for blank contamination are tabulated below.

Table 2: Volatile Organics Analysis - Blank Analysis Deviations

Blank Matrix	Date Analyzed	Compound	Blank Action Level	Associated Samples	Qualified Sample Result
TB-20140730 Water	08/07/2014	Acetone	47 µg/L	MW-36 (11-12) MW-37 (11-12) MW-DUP-01	20 U µg/Kg 12 U µg/Kg 38 U µg/Kg
BJ40969	10/18/2014	Trichloroethylene	1.5 µg/L	MW-38	47 J µg/L

Initial Calibration

The initial calibration relative standard deviation (%RSD) limit, which requires the %RSD to be less than 30 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %RSD criteria were exceeded. Samples requiring qualification due to these deviations are tabulated below.

Table 3: Volatiles Organics Analyses – Initial Calibration Deviations

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
MSVOA6 09/29/2014	Acetone Methylene Chloride 2-Butanone	39.4 % 37.5 % 31.1 %	UJ UJ UJ	TB-20140922 TB-20140923 TB-20140924

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
MSVOA2 10/01/2014	Acetone	32.7 %	J,UJ	3SB-5 (0-5) 3SB-5 (10-15) 3SB-5 (15-20) 3SB-6 (20-25) 3SB-6 (25-30) 3SB-7 (0-5) 3SB-7 (10-15) 3SB-8 (0-5) 3SB-8 (15-20) 3SB-9 (0-5) 3SB-9 (15-20) 3SB-9 (20-25) MW-38 (0-5) MW-38 (10-15) MW-39 (0-5) MW-39 (10-11) MW-40 (0-5) MW-40 (15-20) 3SB-DUP
MSVOA6 10/15/2014	Acetone	34.5 %	UJ	MW-7 MW-8

Continuing Calibration

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 25 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Non-detected results were rejected (R) for compounds with %D values greater than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

Table 4: Volatile Organics Analysis - Continuing Calibration Deviations

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
AIRPIANO2 09/26/2014 14:02	Heptane 1,2,4-Trichlorobenzene Hexachlorobutadiene	25.7 % -25.1 % 027.9 %	J,UJ J,UJ UJ	3SB-1 3SB-2
MSVOA2 10/02/2014 08:33	Acetone 2-Butaone	-43.6 % -25.9 %	J,UJ UJ	3SB-9 (20-25)
MSVOA4 10/01/2014 21:43	1,2,3-Trichlorobenzene	-31.0 %	UJ	3SB-3A (0-5) 3SB-3A (10-15)
VOA No.1 12/16/2014 11:03	Dichlorodifluoromethane 2-Chloroethylvinyl ether	27.8 % 46.3 %	UJ UJ	MW-41 (8-10) MW-42 (8-10) MW-DUP-2
VOA No.1 12/18/2014 11:51	Acetone 2-Chloroethylvinyl ether Naphthalene	30.9 % 25.9 % -27.2 %	UJ UJ UJ	TB-20151210
VOA #3 01/02/2015 (10:02)	Bromomethane Acetone 4-Methyl-2-pentanone	-25.2 % 38.5 % 25.8 %	UJ UJ UJ	MW-36 MW-26A MW-37 MW-41 MW-42 TB20141223

Laboratory Control Sample Analysis

Laboratory control sample (LCS) recovery criteria requiring recoveries to be within laboratory generated control limits were exceeded for several compounds. Qualification of sample data included the approximation of results when spike recoveries were greater than the upper limit, but less than 200 percent or less than the lower limit, but greater than 10 percent. Non-detected sample results were rejected (R) for compounds with recoveries that were less than 10 percent. Samples qualified due to LCS recovery deviations are tabulated below.

Table 3: Volatile Organics Analysis - Laboratory Control Sample Deviations

Matrix	Compound	Percent Recovery	Control Limits	Qualifier	Affected Samples
Water BJ40062	Tetrachloroethylene	149 % / 106 %	80 % to 129 %	UJ	3SB-3A (0-5)
Water BJ41033	4-Methyl-2-pentanone	48.1 % / 115 %	57 % to 145 %	UJ	TB-20141008 TB-20141009
Water BL40832	1,1,2,2-Tetrachloroethane	70.8 % / 97.9 %	79 % to 129 %	UJ	MW-41 (8-10) MW-42 (8-10) MW-DUP-2
	1,1,2-Thrchloroethane	73.0 % / 89.0 %	83 % to 123 %	UJ	
	1,2,4-Trimethylbenzene	74.5 % / 93.3 %	84 % to 125 %	UJ	
	1,2-Dibromo-3-chloropropane	64.5 % / 84.7 %	74 % to 142 %	UJ	
	1,2-Dibromoethane	76.4 % / 91.0 %	86 % to 123 %	UJ	
	1,2-Dichloropropane	74.0 % / 89.8 %	81 % to 122 %	UJ	
	1,3,5-Trimethylbenzene	73.1 % / 95.9 %	82 % to 126 %	UJ	
	2-Hexanone	64.4 % / 82.3 %	70 % to 139 %	UJ	
	4-Methyl-2-pentanone	71.5 % / 91.3 %	72 % to 132 %	UJ	
	Bromodichloromethane	72.7 % / 86.9 %	84 % to 124 %	UJ	
	Chlorobenzene	79.8 % / 95.2 %	86 % to 120 %	UJ	
	cis-1,3-Dichloropropylene	72.7 % / 86.8 %	81 % to 129 %	UJ	
	Ethylbenzene	73.3 % / 87.7 %	84 % to 125 %	UJ	
	n-Butylbenzene	71.7 % / 88.6 %	80 % to 130 %	UJ	
	n-Propylbenzene	73.1 % / 91.6 %	80 % to 130 %	UJ	
	o-Xylene	72.6 % / 87.1 %	83 % to 123 %	UJ	
	m,p-Xylene	73.8 % / 87.5 %	82 % to 128 %	UJ	
	sec-Butylbenzene	74.5 % / 96.0 %	83 % to 125 %	UJ	
	Styrene	78.6 % / 95.0 %	86 % to 125 %	UJ	
	Tetrachloroethylene	72.3 % / 86,9 %	80 % to 129 %	UJ	
	Toluene	75.9 % / 91.8 %	85 % to 121 %	UJ	
	trans-1,3-Dichloropropylene	72.7 % / 93.6 %	78 % to 132 %	UJ	
	Trichloroethylene	67.7 % / 83.2 %	84 % to 123 %	UJ	
Water BL40984	1,1,2,2-Tetrachloroethane	92.8 % / 61.6 %	73 % to 132 %	UJ	TB20141210
	1,3,5-Trimethylbenzene	94.4% / 67.0 %	78 % to 128 %	UJ	
	Bromoform	102 % / 74.6 %	77 % to 137 %	UJ	
	Isopropylbenzene	96.0 % / 63.0 %	76 % to 128 %	UJ	
	n-Propylbenzene	93.5 % / 63.4 %	72 % to 135 %	UJ	

Overall Data Assessment

Overall, the laboratory performed volatile organics analyses in accordance with the requirements specified in the method listed in Section 1.2. These data were determined to be usable for qualitative and quantitative purposes with the no exceptions. Sample results for several compounds were qualified based on deviations from initial calibration, continuing calibration and laboratory control sample criteria.

2.2 Semivolatiles Analysis

Data validation was performed for one groundwater sample. The QA/QC parameters presented in Section 1.3.2 of this report were found to be within specified limits with the exception of the following:

Initial Calibration

The initial calibration relative standard deviation (%RSD) limit, which requires the %RSD to be less than 30 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %RSD criteria were exceeded. Samples requiring qualification due to these deviations are tabulated below.

Table 6: Volatiles Organics Analyses – Initial Calibration Deviations

Date Analyzed	Compound	%RSD	Result Qualifier	Affected Samples
BNA#3 06/20/2014	Benzoic Acid 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol Pentachlorophenol	73.8 % 90.2 % 45.4 % 59.6 %	UJ UJ UJ UJ	MW-36 (11-12) MW-37 (11-12) MW-DUP-01
BNA#3 09/09/2014	2,4-Dinitrophenol	34.3 %	UJ	MW-39 (10-11)

Continuing Calibration

The continuing calibration percent difference (%D) limit, which requires the %D to be less than 25 percent, was exceeded for several compounds. Sample qualification included the approximation (J, UJ) of results when %D criteria were exceeded, but were less than 90 percent. Samples requiring qualification due to these deviations are tabulated below.

Table 7: Semivolatile Organics Analysis - Continuing Calibration Deviations

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
BNA#3 08/07/2014 (08:39)	Bis(2-chloroisopropyl)ether N-nitroso-di-n-propylamine Nitrobenzene Hexachlorocyclopentadiene 2,4-Dinitrophenol 3,3-Diclorobenzidine Benzo(ghi)perylene	29.3 % 29.5 % 35.6 % 54.8 % 40.0 % 46.1 % 32.2 %	UJ UJ UJ UJ UJ UJ UJ	MW-36 (11-12) MW-37 (11-12) MW-DUP-01
BNA#3 10/02/2014 (08:43)	Hexachlorocyclopentadiene 2,4-Dinitrophenol 3,3-Diclorobenzidine Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(ghi)perylene	30.4 % -40.0 % 27.2 % 34.4 % 28.2 % 40.0 %	UJ UJ UJ UJ UJ UJ	MW-39 (10-11)
BNA #1 12/15/2014 (15:55)	2,4-Dinitrophenol	-41.9 %	UJ	MW-41 (8-10) MW-42 (8-10) MW-DUP-2

Date Analyzed	Compound	%D	Result Qualifier	Affected Samples
GC/MS BNA 12/30/2014 (17:48)	4-Chloroanaline 4-Nitrophenol 3,3'-Dichlorobenzidine	58.7 % -31.7 % 28.7 %	UJ UJ UJ	MW-36 MW-26A MW-37 MW-41 MW-42 TB20141223

Overall Data Assessment

Overall, the laboratory performed semivolatile organics analyses in accordance with the requirements specified in the method listed in Section 1.2. These data were determined to be usable for all qualitative and quantitative purposes with the no exceptions. Sample results for several compounds were also qualified based on deviations from continuing calibration criteria.

SECTION 3 - DATA USABILITY and PARCC EVALUATION

3.1 Data Usability

This section presents a summary of the usability of the analytical data and an evaluation of the PARCC parameters. Data usability was calculated as the percentage of data that was not qualified as rejected based on a significant deviation from established QA/QC criteria. Data usability, which was calculated separately for each type of analysis, is tabulated below.

Table 10: Data Usability and PARCC Evaluation - Data Usability

Parameter	Usability	Deviations
Volatile Parameters	100 %	None resulting in the rejection of data
Semivolatile Parameters	100 %	None resulting in the rejection of data

3.2 PARCC Evaluation

The following sections provide an evaluation of the analytical data with respect to the precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters.

3.2.1 Precision

Precision is measured through field duplicate samples, split samples, and laboratory duplicate samples. For this sampling program, none of the analytical data required qualification from field duplicate criteria deviations.

3.2.2 Accuracy

Matrix spike sample, surrogate recovery, internal standard recovery, laboratory control samples, and calibration criteria indicate the accuracy of the data. For this sampling program, 5.25 percent of the data were qualified for calibration criteria deviations.

3.2.3 Representativeness

Holding times, sample preservation, and blank analysis are indicators of the representativeness of the analytical data. For this investigation, none of the analytical data required qualification for holding time or blank analysis deviations.

3.2.4 Comparability

Comparability is not compromised provided that the analytical methods did not change over time. A major component of comparability is the use of standard reference materials for calibration and QC. These standards are compared to other unknowns to verify their concentrations. Since standard analytical methods and reporting procedures were consistently used by the laboratory, the comparability criteria for the analytical data were met.

3.2.5 Completeness

The overall percent usability or completeness of the data was 100 percent.

APPENDIX A

DATA VALIDATION CHECKLISTS

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Data Validation Checklist - Part A: VOA Analyses

No:	Parameter	YES	NO	N/A
1.0	**Traffic Reports and Laboratory Narrative**			
1.1	Are the traffic Report Forms present for all samples?	X		
1.2	Do the Traffic Reports or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?		X	
2.0	**Holding Times**			
2.1	Have any VOA technical holding times, determined from date of collection to date of analysis, been exceeded?		X	
3.0	**System Monitoring Compound (SMC) Recovery (Form II)**			
3.1	Are the VOA SMC Recovery Summaries (FORM II) present for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air	X		
3.2	Are all the VOA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air	X		
3.3	Were outliers marked correctly with an asterisk?			X
3.4	Was one or more VOA system monitoring compound recovery outside of contract specifications for any sample or method blank?		X	
	If yes, were samples re-analyzed?			X
	Were method blanks re-analyzed?			X
3.5	Are there any transcription/calculation errors between raw data and Form II?		X	
4.0	**Matrix Spikes (Form III)**			
4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?	X		
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices?			
	a. Low Water	X		
	b. Low Soil	X		
	c. Air			X
4.3	How many VOA spike recoveries are outside QC limits?			
	Water 0 out of 67 Soils 0 out of 54			
4.4	How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits?			
	Water 0 out of 67 Soils 0 out of 54			

Data Validation Checklist - Part A: VOA Analyses

No:	Parameter	YES	NO	N/A
5.0	**Blanks (Form IV)**			
5.1	Is the Method Blank Summary (Form IV) present?	X		
5.2	Frequency of Analysis: for the analysis of VOA TCL compounds, has a reagent/method blank been analyzed for each SDG or every 20 samples of similar matrix (low water, low soil, medium soil), whichever is more frequent?	X		
5.3	Has a VOA method/instrument blank been analyzed at least once every twelve hours for each concentration level and GC/MS system used?	X		
5.4	Is the chromatographic performance (baseline stability) for each instrument acceptable for VOAs?	X		
6.0	**Contamination**			
6.1	Do any method/instrument/reagent blanks have positive results (TCL and/or TIC) for VOAs?	X		
6.2	Do any field/trip/rinse blanks have positive VOA results (TCL and/or TIC)?	X		
6.3	Are there field/rinse/equipment blanks associated with every sample?	X		
7.0	**GC/MS Instrument Performance Check (Form V)**			
7.1	Are the GC/MS Instrument Performance Check Forms (Form V) present for Bromofluorobenzene (BFB)?	X		
7.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the BFB provided for each twelve hour shift?	X		
7.3	Has an instrument performance compound been analyzed for every twelve hours of sample analysis per instrument?	X		
7.4	Have the ion abundances been normalized to m/z 95?	X		
7.5	Have the ion abundance criteria been met for each instrument used?	X		
7.6	Are there any transcription/calculation errors between mass lists and Form V's?		X	
7.7	Have the appropriate number of significant figures (two) been reported?	X		
7.8	Are the spectra of the mass calibration compound acceptable?	X		
8.0	**Target Compound List (TCL) Analytes**			
8.1	Are the Organic Analysis Data Sheets (Form I VOA) present with required header information on each page, for each of the following:			
	a. Sample and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates?	X		
	c. Blanks?	X		
8.2	Are the VOA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?			
	a. Samples and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates (Mass spectra not required)?	X		
	c. Blanks?	X		
8.3	Are the response factors shown in the Quant Report?	X		

Data Validation Checklist - Part A: VOA Analyses

No:	Parameter	YES	NO	N/A
8.4	Is the chromatographic performance acceptable with respect to:			
	Baseline stability?	X		
	Resolution?	X		
	Peak shape?	X		
	Full-scale graph (attenuation)?	X		
	Other:			
8.5	Are the lab-generated standard mass spectra of the identified VOA compounds present for each sample?	X		
8.6	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	X		
8.7	Are all ions in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	X		
8.8	Do sample and standard relative ion intensities agree within 20%?	X		
9.0	**Tentatively Identified Compounds (TIC)**			
9.1	Are all Tentatively Identified Compound Forms (Form I Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?			X
9.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?			X
	b. Blanks?			X
9.3	Are any TCL compounds (from any fraction) listed as TIC compounds?			X
9.4	Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
9.5	Do TIC and "best match" standard relative ion intensities agree within 20%?			X
10.0	**Compound Quantitation and Reported Detection Limits**			
10.1	Are there any transcription/calculation errors in Form I results?		X	
10.2	Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
11.0	**Standards Data (GC/MS)**			
11.1	Are the Reconstructed Ion Chromatograms, and data system printouts present for initial and continuing calibration?	X		
12.0	**GC/MS Initial Calibration (Form VI)**			
12.1	Are the Initial Calibration Forms (Form VI) present and complete for the volatile fraction at concentrations of 10, 20, 50, 100, 200 ug/L? Are there separate calibrations for low/med soils and low soil samples?	X		
12.2	Were all low level soil standards, blanks, and samples analyzed by heated purge?	X		
12.3	Are the response factors stable for VOA's over the concentration range of the calibration (%Relative Standard Deviation (%RSD) <30%)		X	
12.4	Are the RRFs above 0.01?	X		
12.5	Are there any transcription/calculation errors in the reporting of average response factors (RRF) or %RSD?		X	

Data Validation Checklist - Part A: VOA Analyses

No:	Parameter	YES	NO	N/A
13.0	**GC/MS Continuing Calibration (Form VII)**			
13.1	Are the Continuing Calibration Forms (Form VII) present and complete for the volatile fraction?	X		
13.2	Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?	X		
13.3	Do any volatile compounds have a percent difference (%D) between the initial and continuing RRF which exceeds the +/- 25% criteria?		X	
13.4	Do any volatile compounds have a RRF <0.01?		X	
13.5	Are there any transcription/calculation errors in the reporting of average response factor (RRF) or %difference (%D) between initial and continuing RRFs?		X	
14.0	**Internal Standard (Form VIII)**			
14.1	Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration?	X		
14.2	Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
15.0	**Field Duplicates**			
15.1	Were any field duplicates submitted for VOA analysis?	X		

Data Validation Checklist - Part B: BNA Analyses

No:	Parameter	YES	NO	N/A
1.0	**Traffic Reports and Laboratory Narrative**			
1.1	Are the traffic Report Forms present for all samples?	X		
1.2	Do the Traffic Reports or Lab Narrative indicate any problems with sample receipt, condition of samples, analytical problems or special circumstances affecting the quality of the data?		X	
2.0	**Holding Times**			
2.1	Have any BNA technical holding times, determined from date of collection to date of extraction, been exceeded?		X	
3.0	**System Monitoring Compound (SMC) Recovery (Form II)**			
3.1	Are the BNA Surrogate Recovery Summaries (FORM II) present for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Med Soil			X
3.2	Are all the BNA samples listed on the appropriate System Monitoring Compound Recovery Summary for each of the following matrices:			
	a. Low Water	X		
	b. Low Soil	X		
	c. Med Soil			X
3.3	Were outliers marked correctly with an asterisk?	X		
3.4	Were two or more base neutral or acid surrogate compound recoveries out of specification for any sample or method blank?		X	
	If yes, were samples re-analyzed?			X
	Were method blanks re-analyzed?			X
3.5	Are there any transcription/calculation errors between raw data and Form II?		X	
4.0	**Matrix Spikes (Form III)**			
4.1	Is the Matrix Spike/Matrix Spike Duplicate Recovery Form (Form III) present?			X
4.2	Were matrix spikes analyzed at the required frequency for each of the following matrices?			X
	a. Low Water			X
	b. Low Soil			X
	c. Med Soil			X
4.3	How many BNA spike recoveries are outside QC limits?			
	Water 0 out of 66 Soils 0 out of 66			
4.4	How many RPD's for matrix spike and matrix spike duplicate recoveries are outside QC limits?			

Data Validation Checklist - Part B: BNA Analyses

No:	Parameter	YES	NO	N/A
	Water 0 out of 66 Soils 0 out of 66			
5.0	**Blanks (Form IV)**			
5.1	Is the Method Blank Summary (Form IV) present?	X		
5.2	Frequency of Analysis: Has a reagent/method blank analysis been reported per 20 samples of a similar matrix, or concentration level, for each extraction batch?	X		
5.3	Has a BNA method blank been analyzed for each GC/MS system used?	X		
5.4	Is the chromatographic performance (baseline stability) for each instrument acceptable for BNAs?	X		
6.0	**Contamination**			
6.1	Do any method/instrument/reagent blanks have positive results (TCL and/or TIC) for BNAs?		X	
6.2	Do any field/rinse blanks have positive BNA results (TCL and/or TIC)?			X
6.3	Are there field/rinse/equipment blanks associated with every sample?		X	
7.0	**GC/MS Instrument Performance Check (Form V)**			
7.1	Are the GC/MS Instrument Performance Check Forms (Form V) present for Decafluorotriphenylphosphine (DFTPP)?	X		
7.2	Are the enhanced bar graph spectrum and mass/charge (m/z) listing for the DFTPP provided for each twelve-hour shift?	X		
7.3	Has an instrument performance check solution been analyzed for every twelve hours of sample analysis per instrument?	X		
7.4	Have the ion abundances been normalized to m/z 198?	X		
7.5	Have the ion abundance criteria been met for each instrument used?	X		
7.6	Are there any transcription/calculation errors between mass lists and Form V's?		X	
7.7	Have the appropriate number of significant figures (two) been reported?	X		
7.8	Are the spectra of the mass calibration compound acceptable?	X		
8.0	**Target Compound List (TCL) Analytes**			
8.1	Are the Organic Analysis Data Sheets (Form I BNA) present with required header information on each page, for each of the following:			
	a. Sample and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates?	X		
	c. Blanks?	X		
8.2	Has GPC cleanup been performed on all soil/sediment sample extracts?			X
8.3	Are the BNA Reconstructed Ion Chromatograms, the mass spectra for the identified compounds, and the data system printouts (Quant Reports) included in the sample package for each of the following?			
	a. Samples and/or fractions as appropriate?	X		
	b. Matrix spikes and matrix spike duplicates (Mass spectra not required)?	X		

Data Validation Checklist - Part B: BNA Analyses

No:	Parameter	YES	NO	N/A
	c. Blanks?	X		
8.4	Are the response factors shown in the Quant Report?	X		
8.5	Is the chromatographic performance acceptable with respect to:			
	Baseline stability?	X		
	Resolution	X		
	Peak shape?	X		
	Full-scale graph (attenuation)?	X		
	Other:			
8.6	Are the lab-generated standard mass spectra of identified BNA compounds present for each sample?	X		
8.7	Is the RRT of each reported compound within 0.06 RRT units of the standard RRT in the continuing calibration?	X		
8.8	Are all ions in the standard mass spectrum at a relative intensity greater than 10% also present in the sample mass spectrum?	X		
8.9	Do sample and standard relative ion intensities agree within 20%?	X		
9.0	**Tentatively Identified Compounds (TIC)**			
9.1	Are all Tentatively Identified Compound Forms (Form I, Part B) present; and do listed TICs include scan number or retention time, estimated concentration and "JN" qualifier?			X
9.2	Are the mass spectra for the tentatively identified compounds and associated "best match" spectra included in the sample package for each of the following:			
	a. Samples and/or fractions as appropriate?			X
	b. Blanks?			X
9.3	Are any TCL compounds (from any fraction) listed as TIC compounds?			X
9.4	Are all ions present in the reference mass spectrum with a relative intensity greater than 10% also present in the sample mass spectrum?			X
9.5	Do TIC and "best match" standard relative ion intensities agree within 20%?			X
10.0	**Compound Quantitation and Reported Detection Limits**			
10.1	Are there any transcription/calculation errors in Form I results?		X	
10.2	Are the CRQLs adjusted to reflect sample dilutions and, for soils, sample moisture?	X		
11.0	**Standards Data (GC/MS)**			
11.1	Are the Reconstructed Ion Chromatograms, and data system printouts present for initial and continuing calibration?	X		
12.0	**GC/MS Initial Calibration (Form VI)**			
12.1	Are the Initial Calibration Forms (Form VI) present and complete for the BNA fraction?	X		

Data Validation Checklist - Part B: BNA Analyses

No:	Parameter	YES	NO	N/A
12.2	Are response factors stable for BNA's over the concentration range of the calibration (%Relative Standard Deviation (%RSD) <30%)		X	
12.3	Are all BNA compound RRFs > 0.01?	X		
12.4	Are there any transcription/calculation errors in the reporting of average response factors (RRF) or %RSD?	X		
13.0	**GC/MS Continuing Calibration (Form VII)**			
13.1	Are the Continuing Calibration Forms (Form VII) present and complete for the BNA fraction?	X		
13.2	Has a continuing calibration standard been analyzed for every twelve hours of sample analysis per instrument?	X		
13.3	Do any semivolatile compounds have a percent difference (%D) between the initial and continuing RRF which exceeds the +/- 25% criteria?		X	
13.4	Do any semivolatile compounds have a RRF <0.01?		X	
13.5	Are there any transcription/calculation errors in the reporting of average response factor (RRF) or percent difference (%D) between initial and continuing RRFs?	X		
14.0	**Internal Standard (Form VIII)**			
14.1	Are the internal standard areas (Form VIII) of every sample and blank within the upper and lower limits (-50% to +100%) for each continuing calibration?	X		
14.2	Are the retention times of the internal standards within 30 seconds of the associated calibration standard?	X		
15.0	**Field Duplicates**			
15.1	Were any field duplicates submitted for BNA analysis?	X		

APPENDIX J

Laboratory Reports
(provided in digital format on CD)