ENVIRONMENTAL SITE INVESTIGATION (SI)
CITY OF PEEKSKILL
PARCEL 5 AND 6 LOWER SOUTH STREET, CITY OF PEEKSKILL, WESTCHESTER COUNTY, NEW YORK

PREPARED FOR:

CITY OF PEEKSKILL
840 MAIN STREET
PEEKSKILL, NY 10566

PREPARED BY:

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October 25, 2011

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TECTONIC

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1.0 INTRODUCTION

This report provides our findings for the Environmental Site Investigation (SI) activities performed on two parcels (5 and 6) along Lower South Street in the City of Peekskill, Westchester County, New York (the "Property" or "Parcels" or "Subject Site"). This report is intended to provide an evaluation of whether recognized environmental conditions (RECs) have impacted the Property. The RECs evaluated are based on the following sources of information:

1. Tectonic's site reconnaissance performed on July 5, 2011 and July 6, 2011 performed as part of this Environmental SI;
2. A review of if historic operations at the Lower South Street property based on discussions with client, review of data and past use of the site, observations on the site and background information provided in the Remedial Action Workplan (RAW) performed by others on a contiguous parcel to the Property subject to this SI. This RAW is in itself a key source of information related upon as it pertains to the potential presence of Areas of Concern (AOCs) on the subject property, described as follows:
3. The Remedial Action Workplan (RAW) completed by Hydro Environmental Solutions, Inc. for the adjacent property, dated November 1, 2010, which was provided by the City. The RAW identified a potential area of concern (AOC) that may have impacted the parcels forming the Property that forms the subject of this SI.

To our knowledge, a Phase I Environmental Site Investigation (ESA) has not been performed for the subject parcels; therefore, the scope of RECs investigated are limited to those reasonably originating from the sources described above.

The SI is intended to document existing environmental conditions pertaining to these potential RECs, identify whether additional investigation is warranted and provide information to determine RECs that might be subject to remedial requirements.

The overall subject Property consists of two parcels located in a historically industrial and commercial area. The site reconnaissance performed by Tectonic on the subject Property and the previous RAW investigation performed by others on the adjacent parcel has identified several on-site and off-site recognized environmental conditions (RECs) that could have potentially impacted the Property. These RECS are described in detail within Section 2.4 of this report.

The work was performed in accordance with the technical requirements of the New York State Department of Environmental Conservation (NYSDEC) DER-10 "Technical Guidance for Site Investigation and Remediation" procedures manual, dated December 2002. Per DER-10, a work plan was developed for this Site Investigation. The SI Work Plan, developed by Tectonic and dated July 22, 20,1 was designed to conduct an investigation to determine if historic operations at the Lower South Street property affected soil and groundwater beneath the site, and if recognized environmental conditions on neighboring and nearby properties have impacted soil and groundwater on the subject Property (See Appendix I). (A bedrock study was not requested). The Environmental SI Work Plan presents the organization, planned activities, and procedures associated with the sampling, and analysis at Parcels 5 and 6 along Lower South Street in the City of Peekskill, Westchester County, New York.

2.0 BACKGROUND

2.1 Site/Facility Description

The subject property is located at Parcels 5 and 6 along Lower South Street in the City of Peekskill, Westchester County, New York herein referred to as the "Property." The Site is located along the eastern side of Lower South Street, in the City of Peekskill, New York. The Site is bordered to the north by Louisa Street; to the east by Route 9; to the south by a vacant industrial/commercial property and HBA Automotive Repair and to the west by Lower South Street. The Site is accessed from entrances located along Lower South Street. The northern portion of Parcel 5 consists of an unoccupied wood-framed house and a

storm water retention basin, while the southern portion historically consisted of a junk yard and former houses. The northern portion of Parcel 6 historically consisted of a solid waste transfer facility, which included a truck scale and two large metal framed buildings. The two metal framed buildings have been removed and only the truck scale and mobile office remains. The northern portion of Parcel 6 is currently used for storing abandoned vehicles. The southern portion of Parcel 6 consists of a large metal frame structure with 7 large bays and concrete floor slab and is currently being used by the City of Peekskill to store vehicles from the Department of Public Works. The Site slopes down to the west/northwest and ranges in elevation from approximately 30 to 80 feet above mean sea level (AMSL). Copies of a topographic map and an aerial photograph of the site and surrounding area showing the location of the Property are contained in the Figure 1 Site Map.

2.2 Property Ownership

The current owner of Parcels 5 and 6 located along Lower South Street is the City of Peekskill.

2.3 Facility History

Parcel 5 was previously owned by several entities, most notably in the later years an auto junk yard, then Ginsberg Development Corporation, and now the City of Peekskill. Based on a review of the New York State online aerial imagery, the southern portion of Parcel 5 consisted of a junk yard for an unknown time prior to the mid 1990's, while the northern portion appeared to be residentially developed. In the early 2000's, three houses and a garage are shown in the southern portion of the Property. In addition, it appears that there has been some site clearing in the southern portion of Parcel 5. By the late 2000's, the structures in the southern portion have been removed from the Property and large stockpiles are located at the southern end of the parcel.

Parcel 6 was previously owned by Karta Recycling who had developed the property and operated a solid waste and construction and demolition material transfer station on the parcel. Parcel 6 is currently owned by the City of Peekskill. Based on a review of the New York State online aerial imagery, Parcel 6 appears to be primarily undeveloped up until the mid 1990's. In the early 2000's, a truck scale and two large metal framed buildings are shown in the northern portion of the parcel, while a large metal frame structure with 7 large bays is shown in the southern portion of Parcel 6. By the late 2000's the two large metal framed buildings in the northern portion have been removed from the parcel.

2.4 Recognized Environmental Conditions

Based on Tectonic's site visit, readily available data, and the RAW performed for the parcel adjacent (Hydro Environmental report), RECS have been identified that have the potential to impact the soils, groundwater and bedrock of the subject Property. These RECs are located within four areas of concern (AOC) that are described as follows:

AOC-1 –Southern Portion of Parcel 6

AOC-1 is located in the southern portion of Parcel 6 and includes the 7-bay garage building. The RECs identified within AOC-1 are as follows:

1. A large approximately 1,000 gallon AST located behind the seven (7) bay garage in the southern portion of Parcel 6.
2. A former waste oil storage area located within the seven (7) bay garage in the southern portion of Parcel 6.
3. Areas of historic fill in Parcel 6 used to create level areas on the sloping native ground surface.

AOC-2 - Northern Portion of Parcel 6

AOC-2 is located in the northern portion of Parcel 6 and includes the truck scale and the footprint of the two former building. The RECs identified within AOC-2 are as follows:

1. This area was used as a solid waste transfer facility.
2. Four unknown metallic bodies were found buried in the area of the truck scale during Tectonic's geophysical investigation.
3. Free phase hydrocarbons in the groundwater and acetone in the soil above NYSDEC RSCOs were found by Hydro Environmental adjacent to the western portion of Parcel 6.
4. Areas of historic fill in Parcel 6 used to create level areas on the sloping native ground surface.

AOC-3 - Northern Portion of Parcel 5

AOC-3 is located in the northern portion of Parcel 5 and includes the wood framed residential structure. The RECs identified within AOC-3 are as follows:

1. The storm water retention ponds located in the northwestern portion of Parcel 5.

AOC-4 - Southern Portion of Parcel 5

AOC-4 is located in the southern portion of Parcel 5 and includes the three former building foundations, former junk yard operations and the stockpiled material. The RECs identified within AOC-4 are as follows:

1. The former houses and junk yard located in the western portion of Parcel 5 along Lower South Street, including several stockpiles of material that was generated by the previous owner.

3.0 INVESTIGATION OBJECTIVES

The scope of this investigation was to determine the potential impacts from the on-site and off-site RECs to the soils and groundwater on the site that might directly impact development of the Property. Tectonic's Environmental Site Investigation (SI) Work Plan was scoped to conduct an investigation to determine if recognized environmental conditions have impacted the site based on discussions with client, review of data and past use of the site, observations on the site and background information provided in the Remedial Action Workplan (RAW) performed by others on a contiguous parcel to the Property subject to this SI. The SI conducted under the SI Work Plan consisted of the performance of thirty-eight (38) borings, thirteen (13) test pits and eight (8) soil gas vapor probes. The investigation was performed to focus on whether the Site is impacted by historic fill, the former junk yard operations, and petroleum hydrocarbons from the on-site AST and waste processing operations and petroleum hydrocarbons from the off-site spill at the adjacent property. The following summarizes the proposed scope of work objective for each AOC:

AOC-1 –Southern Portion of Parcel 6

AOC-1 is located in the southern portion of Parcel 6 and includes the 7-bay garage. The investigation objectives for AOC-1 are as follows:

- Determine if there is historic fill present on the site and if so, evaluate the historic fill to determine its nature.
- Determine if the AST located behind the seven (7) bay garage in the southern portion of Parcel 6 has impacted on-site soils and groundwater.
- Determine if the waste oil storage area located within the seven (7) bay garage in the southern portion of Parcel 6 has impacted on-site soils and groundwater.

AOC-2 - Northern Portion of Parcel 6

AOC-2 is located in the northern portion of Parcel 6 and includes the truck scale and the two former building foundations. The investigation objectives for AOC-2 are as follows:

- Determine if there is historic fill present on the site and if so, evaluate the historic fill to determine its nature.
- Determine if the waste transfer activities have impacted the on-site soils.
- Determine if the four (4) unidentified underground metallic objects located near the truck scale on Parcel 6 have impacted the on-site soils and groundwater.
- Determine if the off-site AOC, identified in the RAW study, which identified free phase hydrocarbons in the groundwater and acetone in the soil above NYSDEC RSCOs has impacted the soils and groundwater underlying the Property.

AOC-3 - Northern Portion of Parcel 5

AOC-3 is located in the northern portion of Parcel 5 and includes the truck scale and the two former building foundations. The investigation objectives for AOC-3 are as follows:

- Determine if the sediment in storm water retention ponds located in the northwestern portion of Parcel 5 have been impacted by contaminated sediment and stormwater from Parcel 6.

AOC-4 - Southern Portion of Parcel 5

AOC-4 is located in the southern portion of Parcel 5 and includes the three former building foundations, former junk yard operations and the stockpiled material. The investigation objectives for AOC-4 are as follows:

- Determine the waste characterization of the three soil stockpiles at the southern end of the Parcel 5
- Determine the nature of the fill used to backfill the basements of the former buildings on Parcel 5.

4.0 NYSDEC RECORD SEARCH

According to the City of Peekskill, remediation of area of concern AOC-4 was begun by the previous property owner Ginsburg Development Corp. Remediation consisted of demolishing the structures on the parcel and scraping the surface soils into 3 large stockpiles. The City was aware that there was an outstanding consent order from NYSDEC for the parcel. A search of NYSDEC's website finds a copy of the decision and order from NYSDEC against Locaparra, Richard d/b/a L and L Scrap Metals from June 2003. A copy of this decision and order is included in Appendix II. Tectonic submitted to NYSDEC under the Freedom of Information Law for any relevant files for the subject property but NYSDEC's response was that there were no records for the property. Tectonic initiated a second search with NYSDEC for files regarding the NYSDEC case number for the decision and order for L and L Scrap Metals. NYSDEC provided twenty-two (22) documents regarding the consent order for the L&L Scrap Metal facility that included correspondence requesting the owner sign various versions of a consent order for the subject parcel, a remedial investigation performed by Ira D. Conklin & Sons Inc. dated January 18, 2001, the NYSDEC approved remedial action work plan prepared by Ira D. Conklin & Sons, Inc. dated March 5, 2001 and copies of the NYSDEC spill report for the subject parcel. Also included where 25 pictures of the junkyard while in operation documenting existing conditions including piles of tires, contaminated surface soil, waste oil tanks, and various debris. NYSDEC also indicated that 11 files were exempted from release due to various exemptions permitted in the Public Officers Law, Article 6.

Of primary interest to our investigation were the photographs, the remedial investigation report and the approved remedial action work plan, which are included in Appendix II. The photographs of the junk yard operations indicate that most of the storage and crushing operations and resulting spills occurred primarily on the south side of Parcel 6. The remedial investigation found that 3 to 4 feet of soil overlie metamorphic bedrock and the soil has high concentrations of petroleum compounds above NYS standards

and low levels of PCBs as well as elevated concentrations of metals. The remedial work plan for the site that was approved by NYSDEC was not complicated. The work plan consisted of

1. removing all the tires, metal and other debris from the site;
2. removing any standing water with a vacuum truck;
3. the phased removal and stockpiling of petroleum contaminated soil down to bedrock or clean native soils from three adjacent areas at the south end of the site;
4. disposal of the petroleum contaminated soil at a permitted off-site disposal facility.

The remedial work was to be performed by L&L Scrap Metal employees under the full time observation of a geologist from Ira D. Conklin & Sons, Inc.

5.0 SUBSURFACE INVESTIGATION AND SAMPLING

Tectonic performed a subsurface investigation of the subject areas of concern that consisted of three different methods of investigation. On July 26, 2011, July 27, 2011, and July 28, 2011 a truck mounted Geoprobe rig was used to perform three-eight (38) borings at locations selected by Tectonic on Parcel 6. On August 1, 2011 and August 2, 2011, thirteen (13) test pits were excavated and August 2, 2011 eight (8) temporary soil gas vapor probes were installed. Borings B-1 through B-18 and test pits TP-1, TP-2 and TP-3 were performed to evaluate AOC-1 in Parcel 6. Borings B-19 through B-38, test pits TP-12 through TP-13 and soil gas vapor probes SV-1 through SV-8 were performed to evaluate AOC-2 in Parcel 6. Test pits TP-10 and TP-11 were performed to evaluate conditions in AOC-3, the detention basin at the northern portion of Parcel 5. Test pits TP-4 through TP-9 were performed to evaluate conditions in AOC-4, the southern portion of Parcel 5. The soil boring locations, test pit locations and soil gas vapor sample locations are shown on the attached Test Location Plans (Figure 2, 3 and 4 respectively). The following details each method of investigation.

5.1 SOIL BORINGS

The Geoprobe used a hydraulic percussion hammer to advance a four-foot Macrocore sampler to advance the borings. Borings B-1 through B-6, B-23, B-34 and B-35 were cored with a concrete core drill prior to advancement of the bore hole. A hydraulically driven hammer was used to advance a Macrocore sampler in four-foot sample intervals. After penetrating the subsurface to the required depth, the sampler was withdrawn and opened to expose soils from that sampling interval. Soil samples were screened for the presence of volatile organic compounds (VOCs) using MiniRAE 3000 photoionization organic vapor meter (OVM). The OVM measures concentrations in air of VOCs that may volatilize from the soil sample, in parts per million. The OVM was calibrated per manufacturer's specifications and procedures prior to use. Soils were observed for staining, odor, and moisture, and characterized using the USCS soil classification system. Field observations were recorded on boring logs, which are included in Appendix III.

The subsurface soils in the area of investigation consisted of fill overlying bedrock or native clayey silt soils. The fill material primarily consisted of sand with varying amounts gravel. Pieces of brick, glass and wood were found in the fill material. The native soils were encountered in a few borings and typically consisted of clayey silt with little fine sand. Refusal was encountered in several of the borings, which was likely bedrock, as several bedrock outcrops were visible. Detailed descriptions of the subsurface conditions at each boring location are recorded on the boring logs in Appendix III.

One soil sample was collected from each boring from the area that exhibited the highest OVM reading. Each soil sample was placed into pre-cleaned laboratory glassware using disposable plastic scoops. Table 3 summarizes the soil samples collected from the four borings.

TABLE 1 ENVIRONMENTAL SOIL SAMPLING SUMMARY				
Boring	Sample Depth Below Ground Surface	Sample Peak OVM Reading	Sample ID	Depth of Boring
B-1	1 to 3 feet	0.2 ppm	C3149-06	3 feet (refusal)
B-2	4 to 7.5 feet	0.2 ppm	C3149-07	7.5 feet (refusal)
B-2*	4 to 7.5 feet	0.2 ppm	C3149-08	7.5 feet (refusal)
B-3	0 to 2 feet	0.0 ppm	C3149-09	2.5 feet (refusal)
B-4	NS	0.0 ppm	NA	2 feet (refusal)
B-5	NS	0.0 ppm	NA	1 feet (refusal)
B-6	8 to 10 feet	0.2 ppm	C3149-05	10 feet (refusal)
B-7	0.5 to 2.5 feet	6.6 ppm	C3167-02	3 feet (refusal)
B-8	0.5 to 2.5 feet	1.1 ppm	C3167-01	2.5 feet (refusal)
B-9	1 to 3 feet	1.1 ppm	C3167-06	4 feet (refusal)
B-10	2 to 4 feet	3.0 ppm	C3167-05	4 feet (refusal)
B-11	0.5 to 2 feet	0.8 ppm	C3167-03	2 feet (refusal)
B-12	0.5 to 2 feet	1.1 ppm	C3167-04	2 feet (refusal)
B-13	NS	0.3 ppm	NA	1 feet (refusal)
B-14	1 to 2 feet	1.8 ppm	C3167-08	2 feet (refusal)
B-15	2.5 to 4.5 feet	1.0 ppm	C3167-09	5 feet (refusal)
B-16	0 to 2 feet	1.3 ppm	C3167-10	2.5 feet (refusal)
B-17	4 to 6 feet	0.8 ppm	C3167-11	7 feet (refusal)
B-18	5 to 7 feet	0.0 ppm	C3167-07	12 feet
B-19	4 to 6 feet	0.0 ppm	C3167-12	6 feet (refusal)
B-20	NS	0.0 ppm	NA	0.6 feet (refusal)
B-21	2 to 4 feet	56.8 ppm	C3137-03	3.5 feet (refusal)
B-22	2 to 4 feet	3.4 ppm	C3137-06	4 feet (refusal)
B-23	1 to 3 feet	0.0 ppm	C3137-05	6 feet (refusal)
B-24	1 to 3 feet	0.3 ppm	C3149-04	8 feet (refusal)
B-25	2 to 4 feet	1.1 ppm	C3149-03	8 feet (refusal)
B-26	2 to 4 feet	1.9 ppm	C3137-12	5.5 feet (refusal)
B-27	1 to 3 feet	1.8 ppm	C3137-11	15 feet
B-28	1 to 3 feet	8.5 ppm	C3137-10	3 feet (refusal)
B-29	1 to 4.5 feet	7.8 ppm	C3137-07	4.5 feet (refusal)
B-29*	1 to 4.5 feet	1.2 ppm	C3137-09	4.5 feet (refusal)

B-30	2 to 4 feet	1.2 ppm	C3137-08	3.5 feet (refusal)
B-31	2 to 4 feet	10.8 ppm	C3137-04	6 feet (refusal)
B-32	2 to 4 feet	0.6 ppm	C3137-02	4 feet (refusal)
B-33	0 to 2 feet	3.6 ppm	C3137-01	1.5 feet (refusal)
B-34	2 to 4 feet	6.3 ppm	C3149-01	3 feet (refusal)
B-35	2 to 4 feet	1.8 ppm	C3149-02	15 feet (refusal)
B-36	0 to 2 feet	2.4 ppm	C3167-13	2 feet (refusal)
B-37	1 to 3 feet	6.1 ppm	C3167-15	3 feet (refusal)
B-38	0.5 to 2.5 feet	6.9 ppm	C3167-14	3.5 feet (refusal)

5.2 TEST PITS

The test pits were excavated using a rubber tire backhoe. The soils within each test pit were screened for the presence of VOCs using a MiniRAE 3000 OVM. Soils were observed for staining, odor, and moisture, and characterized using the USCS soil classification system. Field observations were recorded on test pit logs, which are included in Appendix IV.

Test pits TP-1, TP-2 and TP-3 were excavated behind the 7 bay garage in the southern portion of Parcel 6, AOC-1. These test pits were excavated to determine the soil impacts, if observable, from the large AST located behind the building and the former oil storage area inside the building. The subsurface soils in the area of investigation consisted of fill overlying bedrock. The fill material primarily consisted of sand with varying amounts gravel and silt. No petroleum odors or elevated OVM readings were noted within these test pits.

Test pits TP-4, TP-5 and TP-6 were excavated within the three existing stockpiles located in the southern portion of Parcel 5, AOC-4. Test pit TP-4 primarily consisted of large boulders and cobbles, with scrap pieces of metal, rubber and other miscellaneous garbage from the former junk yard operations. Test pit TP-5 primarily consisted of small boulders and cobbles, with scrap pieces of metal, rubber, glass and plastic from the former junk yard operations.

There was little to no soil within test pit TP-4 and TP-5, as such no soil sample was collected. Test pit TP-6 was excavated within the larger stockpile and primarily consisted of approximately one foot of topsoil covering black sand, with small pieces of glass, rubber and plastic. Strong petroleum odors elevated OVM readings were noted within this stockpile.

Test pits TP-7, TP-8 and TP-9 were excavated within the footprint of three of the former buildings located within the southwestern portion of parcel 5, AOC-4. Test pit TP-7 primarily consisted of sand with varying amounts of gravel and a few cobbles. Parts of the former foundation and brick pieces were also encountered in the excavation. Test pits TP-8 and TP-9 primarily consisted of sand with varying amounts of gravel, silt and a few cobbles overlying weathered bedrock. No petroleum odors or elevated OVM readings were noted within these test pits.

Test pits TP-10 and TP-11 were excavated within the storm water retention ponds in the northern portion of Parcel 5, AOC-3. These test pits were excavated to determine if the sediment in storm water retention ponds have been impacted by contaminated sediment and stormwater from the waste transfer facility on Parcel 6. Test pit TP-10 primarily consisted of sand, some gravel and little silt. TP-11 was confirmed to be located on a bedrock outcrop; as such no sample was collected. No petroleum odors or elevated OVM readings were noted within these test pits.

Test pits TP-12 and TP-13 were excavated in the area of the four (4) unidentified underground metallic objects located in the northern portion of Parcel 6, AOC-2. Test pit TP-12 consisted of fill material below an asphalt layer. The fill material primarily consisted of sand with varying amounts gravel and silt. Pieces of brick and wood were also found in the fill material. Approximately 3.5 feet below the ground surface one metal and one PVC pipe was encounter. Test pit TP-13

consisted of fill material below an asphalt layer. The fill material primarily consisted of sand with varying amounts gravel and silt. Within the fill material was a fabric layer over gravel. Beneath the fill material, native soils were encountered, which consisted of clayey silt with little fine sand. Petroleum odors and slightly elevated OVM readings were noted within these test pits. Detailed descriptions of the subsurface conditions are recorded on the test pit logs in Appendix IV.

All soil samples from the borings and test pits were labeled and packaged on ice in coolers and shipped via FedEx by Tectonic's field team leader via chain-of-custody protocol to Chemtech, a NYSDOH ELAP certified laboratory, of Mountainside, New Jersey for analysis.

5.3 SOIL GAS SAMPLING

The soil gas vapor samples were collected in the northern portion of Parcel 5, AOC-2, where elevated VOC readings had been encountered during the Geoprobe investigation. The soil gas samples were collected by installing temporary soil vapor sampling points with a portable hand drive hammer. Each vapor point consisted of a dedicated sampling tip and screen connected to dedicated Teflon lined tubing. The tubing was connected to a Minirae 3000 to measure VOC concentrations in the soil gas and to purge the tubing of atmospheric gases. The tubing was then connected to laboratory prepared Summa canisters to collecting soil gas samples. The air samples were shipped via FedEx by Tectonic's field team leader via chain-of-custody protocol to Chemtech, a NYSDOH ELAP certified laboratory, of Mountainside, New Jersey for analysis.

5.4 WATER LEVEL MEASUREMENT

No groundwater was encountered in the soil borings or test pits at the time of this investigation, as such, no monitoring wells were installed.

6.0 ANALYTICAL TEST RESULTS

The soil samples from the borings were analyzed by Chemtech for Volatile Organic Compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, TAL Metals by EPA Method 6010/7471, PCBs, pesticides, Total Petroleum Hydrocarbons (TPH) by EPA Method 8015 and Hexavalent Chromium. Soil samples collected for the test pit location were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, TAL Metals by EPA Method 6010/7471, TCLP Metals by EPA Method 1311/6010/7471, PCBs, pesticides, Total Petroleum Hydrocarbons (TPH) by EPA Method 8015, Hexavalent Chromium and RCRA Characteristics (Ignitibility, Corrosivity, Reactivity). Several soil samples required dilution due to high concentrations of SVOCs and Metals. Several samples also required reanalysis in accordance with EPA analytical protocol due to interference with the sample matrix. Soil analytical results were compared to the soil clean-up objective (SCO) concentrations set forth in 6 NYCRR Part 375 -6.8(a) for unrestricted use.

The soil gas samples were analyzed by Chemtech by EPA Method TO-15 and were compared to NYSDEC Vapor guidance values.

6.1 Soil Analytical Test Results

The analytical test results for the soil samples collected in the southern portion of Parcel 6, area of concern (AOC) 1, are summarized in Table 2A through Table 2F. The analytical test results for the soil samples collected in the northern portion Parcel 6, AOC-2, and the northern portion of Parcel 5, AOC-3, are summarized in Table 3A through Table 3H. The analytical test results for the soil samples collected in the southern portion of Parcel 5, AOC-4, are summarized in Table 4. Copies of the analytical test results are attached in Appendix V. For all the samples, the concentrations of contaminants above their respective SCOs

set forth in 6 NYCRR Part 375 -6.8(a) are indicated in bold. The findings of soil testing for each AOC is described as follows.

AOC-1 – Southern Portion of Parcel 6

- Volatile Organic Compounds

  Analytical test results for the soil samples collected in AOC-1 indicate concentrations of some volatile organic compounds (VOCs) in excess of the method detection limits, however these concentrations are below the SCOs in 6 NYCRR Part 375 -6.8(a). Table 2A summarizes the VOC results.

- Semi-volatile Organic Compounds

  Analytical test results for the soil samples collected in AOC-1 indicate concentrations of some semi-volatile organic compounds (SVOCs) in excess of the method detection limits. Four SVOC compounds, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene and Chrysene exceeded their appropriated SCO set forth in 6 NYCRR Part 375 -6.8(a) in boring B-14 1-2, B-15 2.5-4.5 and B-16 0-2 . One (1) SVOC, Benzo(b)fluoranthene, was above its respective SCO set forth in 6 NYCRR Part 375 -6.8(a) in boring B-12 0.5-2. Table 2B summarizes the SVOC results and indicates which results exceed the SCOs in 6 NYCRR Part 375 -6.8(a).

- Total Petroleum Hydrocarbons

  Analytical test results for the soil samples collected in AOC-1 indicate concentrations of some total petroleum hydrocarbons (TPH) in excess of the method detection limits, with the highest concentrations found in the sample from B-14 1-2. Table 2C summarizes the TPH results.

- Pesticides/PCBs

  Analytical test results for the soil samples collected in AOC-1 indicate concentrations of some pesticides in excess of the method detection limits, however these concentrations are below the SCOs in 6 NYCRR Part 375 -6.8(a). Table 2D summarizes the pesticide results.

  Analytical test results for the soil samples collected in AOC-1 indicate concentrations of some PCBs in excess of the method detection limits. The results for the soil samples indicate that the total concentration of two of the samples, B-9 1-3 and B-14 1-2 are above the SCOs in 6 NYCRR Part 375 -6.8(a). Table 2E summarizes the PCB results.

- Metals

  The analytical test results for the soil samples from all the borings collected in AOC-1 indicate concentrations of most metals above method detection limits. The results for the soil samples indicate that the concentrations of barium, chromium, lead, mercury and zinc exceeded there respective SCO set forth in 6 NYCRR Part 375 -6.8(a) in some of the soil samples. Barium was found above its respective SCO in samples in borings B-2 6-7.5, B-3 0-2 and B-6 8-10. Cadmium was found above its respective SCO in samples in borings B-2 4-6, B-2 6-7.5 and B-8. Lead and mercury were also found above their SCOs in the samples from boring B-7 0.5-2.5, B-9 1-3, B-11 0.5-2 and B-14 1-2. Zinc was found in exceedance of its SCO in samples B-7 0.5-2.5, B-9 1-3 and B-14 1-2. Table 2F summarizes the metals results and indicates which results exceed the SCOs in 6 NYCRR Part 375 -6.8(a). In addition, one sample, B-14 1-2 contained concentrations of lead exceeding the "twenty times rule" which is a soil concentration value generated by multiplying the maximum leachable concentration (as indicated in NYSDEC RCRA Part

371 3(e)) by twenty. Elevated metal levels may mainly be attributed to contaminants in fill.

AOC-2 – Northern Portion of Parcel 6

- Volatile Organic Compounds

  Analytical test results for the soil samples collected in AOC-2 indicate concentrations of some volatile organic compounds (VOCs) in excess of the method detection limits, however these concentrations are below the SCOs in 6 NYCRR Part 375 -6.8(a). Table 3A summarizes the VOC results.

- Semi-volatile Organic Compounds

  Analytical test results for the soil samples collected in AOC-2 indicate concentrations of semi-volatile organic compounds (SVOCs) in excess of the method detection limits. Four SVOC compounds, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene and Chrysene exceed their appropriated SCO set forth in 6 NYCRR Part 375 -6.8(a) in boring B-22 2-4, B-37 1-3 and TP-12 . Three (3) SVOCs Benzo(a)anthracene, Benzo(b)fluoranthene and Chrysene were above their respective SCO set forth in 6 NYCRR Part 375 -6.8(a) in boring B-24 1-3 and one (1) SVOC, Benzo(b)fluoranthene was above the respective SCO set forth in 6 NYCRR Part 375 -6.8(a) in boring B-30 2-4 and B-32 2-4. Table 3B summarizes the SVOC results and indicates which results exceed the SCOs in 6 NYCRR Part 375 -6.8(a).

- Total Petroleum Hydrocarbons

  Analytical test results for the soil samples collected in AOC-2 indicate concentrations of some total petroleum hydrocarbons (TPH) in excess of

the method detection limits, with the highest concentrations found in the sample from B-21 2-4. Table 3C summarizes the TPH results.

- Pesticides/PCBs

  Analytical test results for the soil samples collected in AOC-2 indicate concentrations of some pesticides in excess of the method detection limits, however these concentrations are below the SCOs in 6 NYCRR Part 375 -6.8(a). Table 3D summarizes the pesticide results.

  Analytical test results for the soil samples collected in AOC-2 indicate concentrations of some PCBs in excess of the method detection limits. The results for the soil samples indicate that the total concentration of twelve of the samples, B-21 2-4, B-22 2-4, B-25 2-4, B-26 2-4, B-28 1-3, B-29 1-4.5, B-30 2-4, B-31 2-4, B-36 1-3, B-37 1-3 and TP-12 are above the SCOs in 6 NYCRR Part 375 -6.8(a). Table 3E summarizes the PCB results.

- Metals

  The analytical test results for the soil samples from all the borings collected in AOC-2 indicate concentrations of most metals above method detection limits. The results for the soil samples indicate that the concentrations of arsenic, chromium, copper, lead, mercury and zinc exceeded their respective SCO set forth in 6 NYCRR Part 375 -6.8(a) in some of the soil samples. Arsenic was found above its respective SCO in samples in borings B-27 1-3, B-29 1-3 and B-28 0.5-2.5. Chromium was found above its respective SCO in samples in borings B-27 1-3, B-33 0-2 and B-38 0.5-2.5. Copper was found above its respective SCO in samples in borings B-22 2-4, B-26 2-4, B-27 1-3, B-29 1-3, B-30- 2-4, and B-31 2-4. Lead was found above its respective SCO in samples in borings B-22 2-4, B-26 2-4, B-27 1-3, B-29 1-3, B-30- 2-4, B-31 2-4, B-32 2-4, B-

35 2-4, B-38 0.5-2.5, and TP-12. Mercury was also found above their SCOs in the samples from boring B-19 4-6, B-22 2-4, B-26 2-4, B-30- 2-4, B-31 2-4, B-35 2-4, B-38 0.5-2.5 and TP-12. Zinc was found in exceedance of its SCO in samples B-22 2-4, B-26 2-4, B-27 1-3, B-29 1-3, B-30- 2-4, B-31 2-4, B-33 0-2, and TP-12. Table 3F summarizes the metals results and indicates which results exceed the SCOs in 6 NYCRR Part 375 -6.8(a). In addition, one sample, B-22 2-4 contained concentrations of lead exceeding the "twenty times rule".

AOC-3- Northern Portion of Parcel 5

- Volatile Organic Compounds

  Analytical test results for the soil sample collected in AOC-3 do not indicate concentrations of volatile organic compounds (VOCs) in excess of the method detection limits. Table 3A summarizes the VOC results.

- Semi-volatile Organic Compounds

  Analytical test results for the soil sample collected in AOC-3 do not indicate concentrations of semi-volatile organic compounds (SVOCs) in excess of the method detection limits. Table 3B summarizes the SVOC results and indicates which results exceed the SCOs in 6 NYCRR Part 375 -6.8(a).

- Pesticides/PCBs

  Analytical test results for the soil samples collected in AOC-3 indicate concentrations of some pesticides in excess of the method detection limits, however these concentrations are below the SCOs in 6 NYCRR Part 375 -6.8(a). Table 2D summarizes the pesticide results.

Analytical test results for the soil samples collected in AOC-3 does not indicate concentrations of some PCBs in excess of the method detection limits. Table 2E summarizes the PCB results.

- Metals

  The analytical test results for the soil samples collected in AOC-3 indicate concentrations of most metals above method detection limits. The results for the soil sample indicate that the concentrations of copper, lead, and zinc exceeded their respective SCO set forth in 6 NYCRR Part 375 -6.8(a) in the soil samples.

- TCLP Metals

  The analytical test results for the TCLP processed soil sample from test pit TP-10, within AOC-3 indicate that two metals, barium and selenium, were measured in the leachate extraction. The sample did not have reported concentrations that exceeded the NYSDEC Part 371, Table 1 Toxicity Characteristics for Hazardous Waste for barium and selenium. Table 3H summarizes the TCLP metals results.

- Ignitability/ Corrosivity/ Reactivity

  The analytical test results for the soil sample collected in AOC-3 from test pit TP-10 indicate the soil sample passed the Ignitability test and the Corrosivity, Reactive Sulfide and Reactive Cyanide tests were negative. Table 3G summarizes the Ignitability, Corrosivity and Reactivity results.

AOC-4- Southern Portion of Parcel 5

- Volatile Organic Compounds

  Analytical test results for the soil sample collected in AOC-4 indicate concentrations of some volatile organic compounds (VOCs) in excess of

the method detection limits, however these concentrations are below the SCOs in 6 NYCRR Part 375 -6.8(a). Table 4 summarizes the VOC results.

- Semi-volatile Organic Compounds

  Analytical test results for the soil samples collected in AOC-4 indicate concentrations of some semi-volatile organic compounds (SVOCs) in excess of the method detection limits. Three (3) SVOC compounds, Benzo(a)pyrene, Benzo(b)fluoranthene, and Indeno(1,2,3-cd)pyrene, in the test pit sample, TP-6 exceed their appropriate SCO. Table 4 summarizes the SVOC results and indicates which results exceed the SCOs in 6 NYCRR Part 375 -6.8(a).

- Total Petroleum Hydrocarbons

  Analytical test results for the soil samples collected in AOC-4 indicate a total of petroleum hydrocarbons (TPH) concentration in excess of the method detection limits, within test pit TP-6. Table 4 summarizes the TPH results.

- Pesticides/PCBs

  Analytical test results for the soil samples collected in AOC-4 did not indicate concentrations of pesticides in excess of the method detection limits.

  Analytical test results for the soil samples collected in AOC-4 indicate a concentration of PCBs in excess of the method detection limits within test pit TP-6. The results for the soil sample indicate that the total concentration of PCBs is above the SCO for PCBs in 6 NYCRR Part 375 - 6.8(a). Table 4 summarizes the PCB results.

- Metals

  The analytical test results for the soil samples from test pit TP-6 collected in AOC-4 indicate concentrations of most of the metals above method detection limits. The results for the soil sample indicate that the concentrations of arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc exceed their respective SCO set forth in 6 NYCRR Part 375 -6.8(a). Table 4 summarizes the metals results and indicates which results exceed the SCOs in 6 NYCRR Part 375 -6.8(a).

- Ignitability/ Corrosivity/ Reactivity

  The analytical test results for the soil sample collected in AOC-4 from test pit TP-6 indicate the soil sample passed the Ignitability test and the Corrosivity, Reactive Sulfide and Reactive Cyanide tests were negative. Table 4 summarizes the Ignitability, Corrosivity and Reactivity results.

- TCLP Metals

  The analytical test results for the TCLP processed soil sample from test pit TP-6, within AOC-4 indicate that two metals, barium and lead, were measured in the leachate extraction. The sample did not have reported concentrations that exceeded the NYSDEC Part 371, Table 1 Toxicity Characteristics for Hazardous Waste for barium and lead. Table 4 summarizes the TCLP metals results.

6.2 Soil Vapor Test Results

The copies of the analytical test results for the soil vapor samples are summarized in Table 5 and copies of the analytical test results are attached in Appendix VI. The soil gas vapor samples were collected within area of concern AOC-2 and analyzed by EPA Method TO-15. For all the samples, the concentrations above the method detection limits are indicated in bold.

- Volatile Organic Compounds

  Analytical test results for the soil vapor gas samples from SV-1 through SV-8 indicate concentrations of volatile organic compounds (VOCs) in excess of the method detection limits. However, there are no existing regulatory standards for soil vapor gas at this time. Based on the test results, VOCs are present in the soils and the highest concentrations appear to be in SV-1, SV-3 and SV-8. Several VOCs were detected at high concentrations within each of the sample locations, with 2,2,4-Trimethylpentane and hexane having the highest concentrations. In addition, toluene was detected above method detection limits in each of the soil vapor gas samples.

7.0 FINDINGS

The findings of our subsurface investigation conducted on July 26, 2011, July 27, 2011, July 28, 2011, August 1, 2011 and August 2, 2011 and the results of the analytical testing are summarized as follows:

7.1 General Site

.1 Historic fill was encountered in every boring. The fill varied from approximately 1 foot thick up to 10 feet thick consisting of varied amounts of sand and gravel and varying amounts of debris including brick, wood and glass.

7.2 AOC-1 –Southern Portion of Parcel 6

.1 The findings from the SI performed by Tectonic indicated that the on-site waste oil area within the 7-bay garage may have impacted the Property's soils. Suspect contamination in this area includes PCBs. Analytical results indicate that four of the soil samples analyzed from borings and test pits within AOC-1 contain concentrations of PCBs exceeding method detection limits. Two of the four soil samples, B-9 1-3 and B-14 1-2 contain concentrations of PCBs above the SCOs in 6 NYCRR Part 375 - 6.8(a). The approximate area of PCB contamination is shown on Figure 5.

.2 Analytical results indicate that soil samples B-12 0.5-2, B-14 1-2, B-15 2.5-4.5, and B-16 0-2 contain concentrations of SVOCs above method

detection limits, with at least one SVOC that exceeds the SCOs in 6 NYCRR Part 375 -6.8(a).

.3 Analytical results indicate that all of the soil samples analyzed from borings did not contain concentrations of pesticides exceeding the SCOs in 6 NYCRR Part 375 -6.8(a).

.4 Analytical test results for the soil samples from all the borings indicate concentrations of most metals above method detection limits in all the soil samples. The results indicate that concentrations of barium, chromium, lead, mercury and zinc were above their respective SCOs in several of the samples. One sample, B-14 1-2 contained concentrations of lead exceeding the "twenty times rule".

7.3 AOC-2 – Northern Portion of Parcel 6

.1 The findings from the SI performed by Tectonic indicated that off-site AOC, identified in the RAW study, which identified free phase hydrocarbons in the groundwater and acetone in the soil above NYSDEC SCOs may have impacted the Property's soils with SVOCs from petroleum spills. Additionally, the historic site usage of the Property may have resulted in potential impacts to the site soils. Suspect contamination includes SVOCs, PCBs and metals.

.2 Analytical results indicate that soil samples B-22 2-4, B-24 1-3, B-30 2-4, B-32 2-4, B-37 1-3 and TP-12 contain concentrations of SVOCs above method detection limits, with at least one SVOC that exceeds the SCOs in 6 NYCRR Part 375 -6.8(a).

.3 Analytical results indicate that all of the soil samples analyzed from borings and test pits within AOC-2 contain concentrations of PCBs exceeding method detection limits except B-19 4-6, B-23 1-3, B-27 1-3, B-32 2-4, B-34 2-4, B-38 0.5-2.5 and TP-10. Twelve of the fourteen soil samples with concentrations of PCBs above method detection limits have concentrations of PCBs that exceeds the SCOs in 6 NYCRR Part 375 -6.8(a). The approximate area of PCB contamination is shown on Figure 5.

.4 Analytical results indicate that all of the soil samples analyzed from borings did not contain concentrations of pesticides exceeding the SCOs in 6 NYCRR Part 375 -6.8(a).

.5 Analytical test results for the soil samples from all the borings indicate concentrations of most metals above method detection limits in all the soil samples. The results indicate that concentrations of arsenic, chromium, copper, lead, mercury and zinc were above their respective SCOs in

several of the samples. One sample, B-22 2-4 contained concentrations of lead exceeding the "twenty times rule".

.6 Analytical results indicate that the soil samples collected from all the borings did not contain concentrations of volatile organic compounds exceeding the SCOs set forth in 6 NYCRR Part 375 -6.8(a), however the soil vapor gas test results, indicate that VOCs are present in the soils with the highest concentrations the soil vapor gas samples SV-1, SV-3 and SV-8. Several VOCs were detected at high concentrations within each of the sample locations, with 2,2,4-Trimethylpentane and hexane having the highest concentrations. In addition, toluene was detected in each of the soil vapor gas samples.

7.4 AOC-3 Northern Portion of Parcel 5

.1 The findings from the SI performed by Tectonic indicate that the former waste transfer station does not appear to have highly impacted the sediment in the stormwater detention basin, as indicated by the test results from sample TP-10. Impacts are limited in area due to the bottom of the basin being comprised of bedrock

.2 The sediment sample contained no detectable concentrations of VOCs, SVOCs, or PCBs above method detection limits.

.3 Analytical results indicate that the soil sample analyzed from test pit TP-10 did not contain concentrations of pesticides exceeding the SCOs in 6 NYCRR Part 375 -6.8(a).

.4 The analytical test result for the soil sample from test pit TP-10 contains concentrations of most metals above method detection limits. The results indicate that concentrations of copper, lead, and zinc were above their respective SCOs.

7.5 AOC-4- Southern Portion of Parcel 5

.1 The findings from the SI performed by Tectonic indicated that the former junk yard activities may have impacted the Property's soils, as indicated by the test results from stockpiled material located in the southern portion of the Parcel 5. Suspect Contamination includes VOCs, SVOCs, PCBs and metals.

.2 Test pits found that three stockpiles have been segregated by size. The easternmost stockpile contains primarily boulders and pieces of metal larger than approximately 9 inches. The middle stockpile primarily contains rock fragments that range from approximately 9 inches down to

¾ inch gravel sized pieces. The western most and largest stockpile is comprised of coarse to fine sand with gravel and silt. The first two stockpiles did not contain enough soil to be tested.

.3 Analytical results indicate that the soil sample from test pit TP-6 in the western stockpile, contains concentrations of SVOCs above method detection limits; three of the SVOCs, (Benzo(a)pyrene, Benzo(b)fluoranthene, and Indeno(1,2,3-cd)pyrene) exceeds the SCOs in 6 NYCRR Part 375 -6.8(a).

.4 Analytical results indicate that the soil sample from test pit TP-6 contains concentrations of PCBs exceeding method detection limits and above the SCOs in 6 NYCRR Part 375 -6.8(a). It should be noted that the PCB conger found in this sample was different from the PCB conger found the samples in AOC-1 and AOC-2, which indicate different sources of the PCBs. The approximate area of the PCB contaminated stockpile is shown on Figure 5.

.5 Analytical results indicate that the soil sample analyzed from test pit TP-6 did not contain concentrations of pesticides exceeding the SCOs in 6 NYCRR Part 375 -6.8(a).

.6 The analytical test results for the soil sample from test pit TP-6 contains concentrations of most metals above method detection limits. The results indicate that concentrations of arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc were above their respective SCOs.

8.0 CONCLUSIONS

The conclusions from our subsurface investigation conducted on July 26, 2011, July 27, 2011, July 28, 2011, August 1, 2011 and August 2, 2011, and the results of analytical testing, are summarized as follows:

8.1 General Site Conclusions

.1 Soils on the Property have been impacted by on-site and off-site recognized environmental conditions.

.2 The investigation results indicate widespread presence of historic fill across the Property. The historic fill thickness ranges from 1 foot to 10 feet across the Property and contains brick, wood and glass. The historic fill generally has elevated concentrations of metals and has localized areas of elevated concentrations of SVOCs and PCBs. This material

would generally be considered unsuitable for reuse as structural fill on site but could potentially be used as fill in landscape areas.

8.2 AOC-1- Southern Portion of Parcel 6

.1 The investigation indicates that the historic fill and/or solid waste transfer activities have resulted in contaminated fill under the existing asphalt and concrete surface.

.2 The large AST located on the south side the garage building has not impacted the property soils.

8.3 AOC-2 Northern Portion of Parcel 6

.1 The investigation indicates that the off-site REC, the petroleum spill identified in the RAW study, has likely impacted the soils on site.

.2 The investigation has shown that VOCs are present in the soil at concentrations that could raise vapor intrusion issues for any future development of AOC-2 as indicated by the soil vapor gas test results.

.3 Based on the analytical results, it is likely that the historic fill would be classified as PCB regulated waste. In addition, the analytical results indicated that areas of historic fill could be classified as hazardous waste due to the high concentrations of lead in some of the samples based on the results compared to the Maximum Concentration of Contaminants for the Toxicity Characteristic.

8.4 AOC-3-Northern Portion of Parcel 5

.1 The investigation has indicated that the sediment in the sediment retention basin has been impacted by contaminated runoff from Parcel 6, as indicated by the elevated concentrations of pesticides and metals.

8.5 AOC-4- Southern Portion of Parcel 5

.1 The investigation indicates that two of the three stockpiles are comprised primarily of gravel, cobbles and some boulders. The largest stockpile is consists of soils that have been impacted by the junkyard activities on Parcel 5.

.2 According to the consent order and approved remedial work plan, the stockpiled soil is to be disposed off-site at a permitted disposal facility.

.3 The soil stockpile has elevated concentrations SVOCs, PCBs, and metals above NYS SCOs. The type and concentration of the contamination in the stockpile eliminate many possible beneficial reuse options for the stockpiled material.

.4 There is no documentation of remedial oversight or analytical test results indicating whether all the petroleum contaminated soil has been removed per the approved work plan as required by the NYSDEC approved work plan.

9.0 RECOMMENDATIONS

The findings and conclusions of the SI performed on the Property; indicate that remedial action will be required prior to the transfer and redevelopment of the property. Tectonic recommends that the City perform two interim remedial measures and then proceed with further remedial investigation for the property to further refine the limits of contamination and to verify the results of the remedial measures performed by others. Tectonic also recommends that the City evaluate whether a program like NYS's Environmental Restoration Program fits the proposed redevelopment plans for the parcels.

Tectonic recommends that the City of Peekskill implement the following interim remedial measures:

1. The City of Peekskill should retain a waste disposal contractor to remove the stockpile of petroleum contaminated soil located in AOC-4 in accordance with the NYSDEC approved remedial workplan. The material should be disposed at a facility that is permitted to receive this material. Until the pile is removed, the City should be cover the stockpile with plastic sheeting and a sediment containment perimeter should be established around the stockpile to prevent migration of the contamination off of the property. The City should retain copies of all transport and disposal manifests. The other two stockpiles should be screened to remove any manmade debris and any remaining soil. Boulders, cobbles and gravel could be reused onsite as fill.

2. The City should retain a tank removal contractor to empty, close, remove, and recycle the AST located behind the garage building in AOC-1 per NYSDEC Petroleum Bulk Storage rules. The City should retain all closure documentation including tank recycling certificates.

Tectonic recommends that the further investigation is performed and consists of the following:

1. Perform a full topographic and boundary survey of the property. The survey could be used to prepare remedial plans and to perform more accurate quantity estimations.

2. Perform a remedial investigation to further delineate the extent of contamination in AOC-1. The objectives of the remedial investigation in this area should include delineating areas of PCB and metals contamination, defining the extent of contaminated historic fill, evaluating health and safety concerns for any proposed construction activities, and determining potential remediation costs for this area.

3. Perform a remedial investigation to further delineate the extent of contamination in AOC-2. The objectives of the remedial investigation in this area should include delineating areas of PCB and metals contamination to the area north of the scale house, defining the extent of contaminated historic fill, evaluating health and safety concerns for any proposed construction activities, and determining potential remediation costs for this area.

4. Perform a remedial investigation after the stockpiles have been removed to determine if the remedial activities in AOC-4 have met the cleanup objectives set forth in the NYSDEC approved work plan for this area. This investigation would include performing a subsurface investigation and

sampling in the grid pattern to verify compliance.

5. Perform an investigation of the bedrock aquifer to determine if the contamination has migrated down and impacted this aquifer. This investigation would involve drilling and installing at least 3 bedrock wells and collecting representative groundwater samples from each well.

10.0 LIMITATIONS

The SI services provided by Tectonic have been performed in general accordance with certain elements of ASTM E 1903 and our understanding of the Client's needs to make a business decision based on a practical scope of work and level of investigation that is commensurate with the nature of the proposed improvements. Our professional services have been performed using the degree of care and skill ordinarily exercised under similar circumstances by reputable environmental engineers and geologists practicing in this or similar situations. Our interpretation of the field data is based on good judgment and experience. However, no matter how qualified the environmental engineer or detailed the investigation, subsurface conditions cannot always be predicted beyond the points of actual sampling and testing. No other warranty, expressed or implied, is made as to the professional advice included in this report.

FIGURE 1

Figure #1
SITE MAP

SOUTH STREET
SITE INVESTIGATION
CITY OF PEEKSKILL

April 2011

Legend

- Investigation Parcels
- 2001 Tax Parcels
- Roads
- Structures
- Streams

PN# 11-300

This map is computer generated using data acquired by Tectonic from various sources and is intended only for reference, conceptual planning and presentation purposes. This map is not intended for and should not be used to establish boundaries, property lines, location of objects or to provide any other information typically needed for construction or any other purpose when engineered plans or land surveys are required.

Geodatabase Location: G:GIS/PROJECTS/PEEKSKILL

FIGURE 2

Figure #2
BORING LOCATION PLAN

SOUTH STREET
SITE INVESTIGATION
CITY OF PEEKSKILL

AUGUST 2011

Legend

- Boring Locations
- Investigation Parcels
- Roads
- Structures
- Streams

NOTES:

1. SAMPLING LOCATIONS BASED ON FIELD SURVEY PERFORMED BY TECTONIC ON SEPTEMBER 2, 2011.

WO - 5886.01

This map is computer generated using data acquired by Tectonic from various sources and is intended only for reference, conceptual planning and presentation purposes. This map is not intended for and should not be used to establish boundaries, property lines, location of objects or to provide any other information typically needed for construction or any other purpose when engineered plans or land surveys are required.

Geodatabase Location: G:GIS/PROJECTS/PEEKSKILL

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FIGURE 3

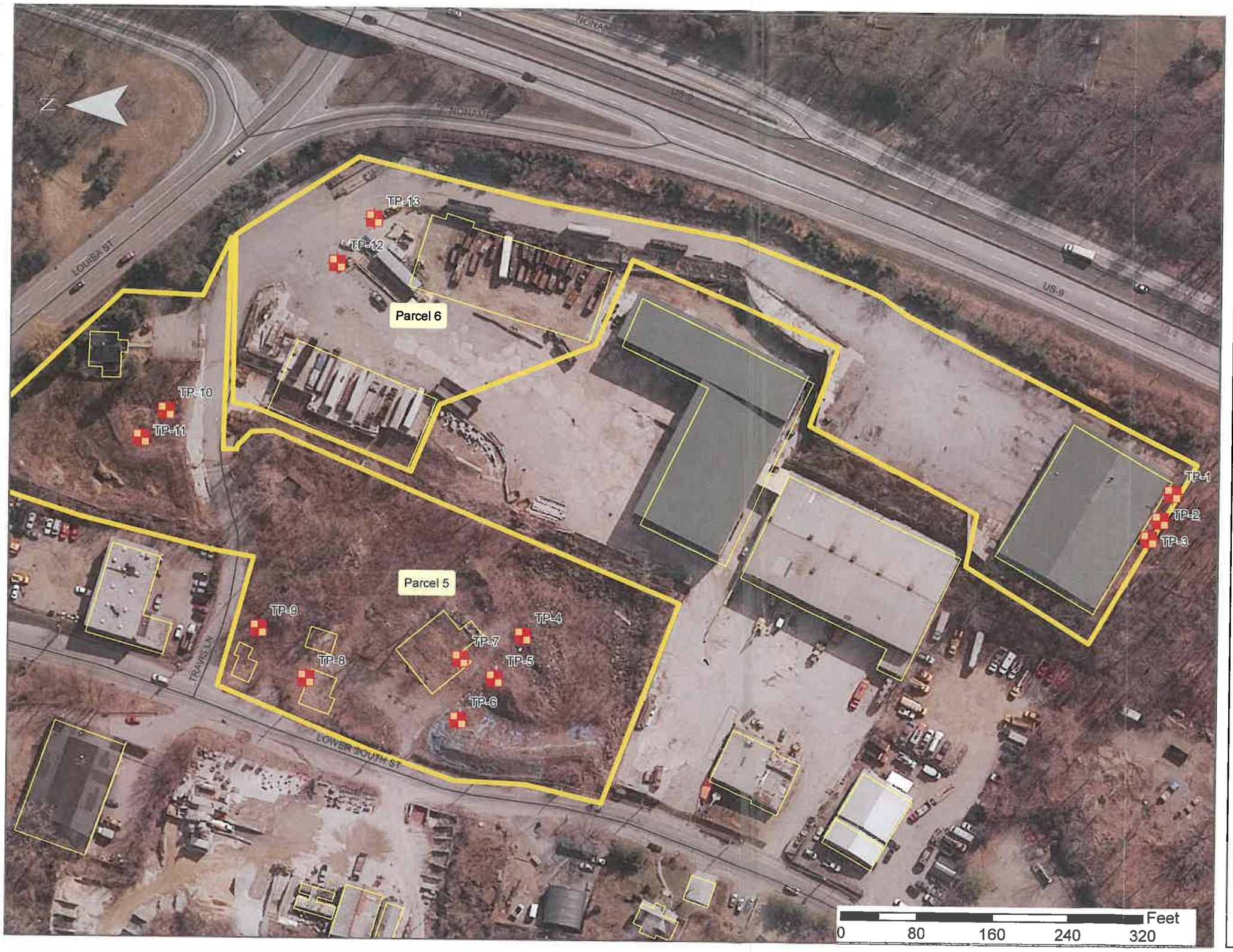

Figure #3
TEST PIT LOCATION PLAN

SOUTH STREET
SITE INVESTIGATION
CITY OF PEEKSKILL

AUGUST 2011

Legend

- Test Pit Locations
- Investigation Parcels
- Roads
- Structures
- Streams

NOTES:

1. SAMPLING LOCATIONS BASED ON FIELD SURVEY PERFORMED BY TECTONIC ON SEPTEMBER 2, 2011.

WO - 5886.01

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Geodatabase Location: G:GIS/PROJECTS/PEEKSKILL

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FIGURE 4

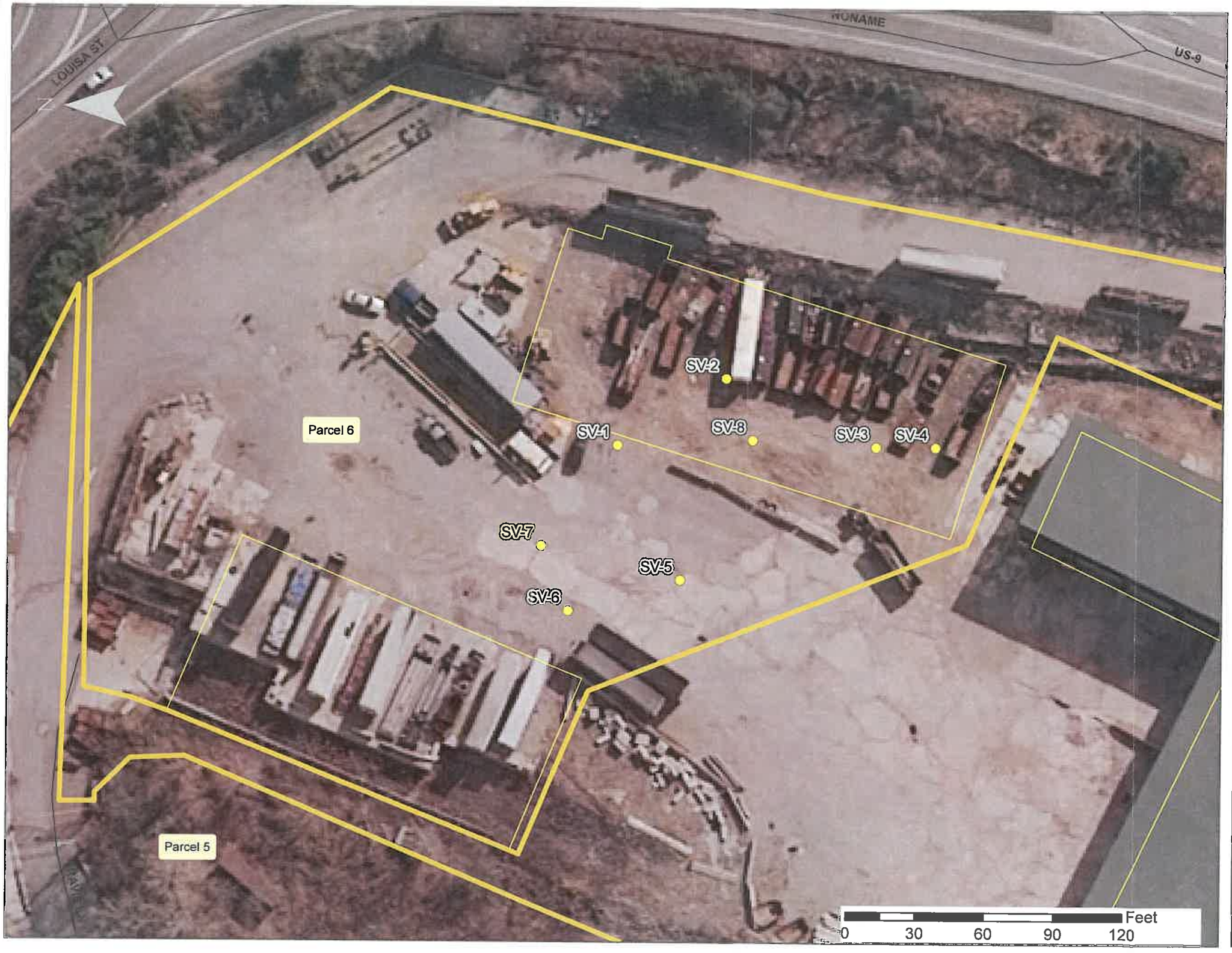

Figure #4
SOIL GAS SAMPLE LOCATION PLAN

SOUTH STREET
SITE INVESTIGATION
CITY OF PEEKSKILL

AUGUST 2011

Legend

- Soil Gas Test Locations
- Investigation Parcels
- Roads
- Structures
- Streams

NOTES:

1. SAMPLING LOCATIONS BASED ON FIELD SURVEY PERFORMED BY TECTONIC ON SEPTEMBER 2, 2011.

WO - 5886.01

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Geodatabase Location: G:GIS/PROJECTS/PEEKSKILL

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FIGURE 5

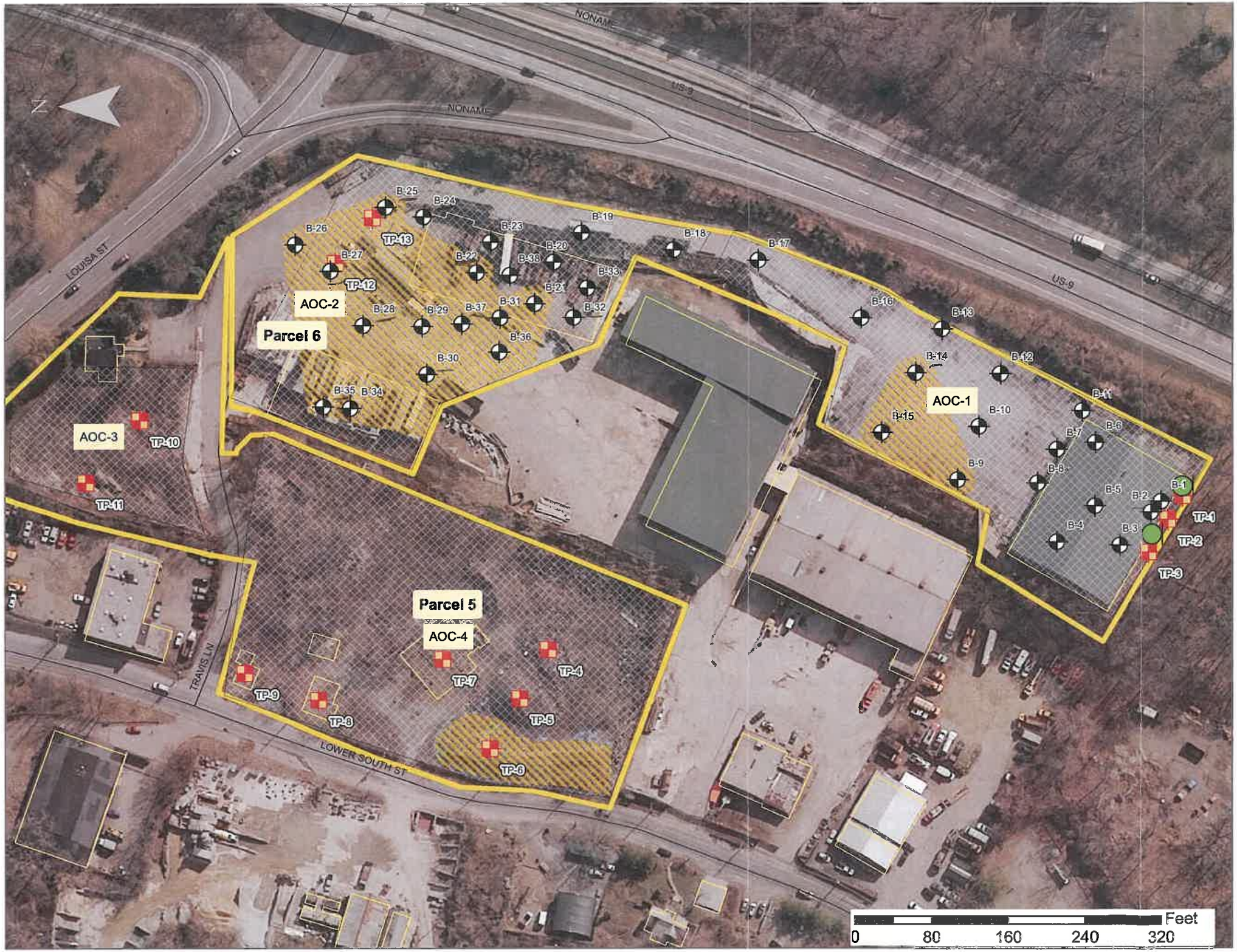

Figure #5
AREA OF CONCERN LOCATION PLAN

SOUTH STREET SITE INVESTIGATION CITY OF PEEKSKILL

AUGUST 2011

Legend

- ASTs
- Boring Locations
- Investigation Parcels
- Roads
- PCB Soil (Approximate)
- Areas of Concern
- Structures
- Test Pit Locations

NOTES:

1. SAMPLING LOCATIONS BASED ON FIELD SURVEY PERFORMED BY TECTONIC ON SEPTEMBER 2, 2011.

WO - 5886.01

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Geodatabase Location: G:GIS/PROJECTS/PEEKSKILL

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TABLES 2A – 2F

TABLE 2A-Soil Sample Results Summary
Volatile Organic Compounds (VOCs)
W.O. 5886.01
Lower South Street, Peekskill, NY

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Sample ID		Part 375-6.8(a)	TP-2	TP-3	B-1-1-3	B-2-4-6	B-402-6-7.5	B-3-0-2	B-6-8-10	B-7-0.5-2.5	B-8-0.5-2.5	B-9-1-3	B-10-2-4	B-11-0.5-2	B-12-0.5-2	B-14-1-2	B-15-2.5-4.5	B-16-0-2	B-17-4-6	B-18-5-7
Boring #					B-1	B-2	B-2	B-3	B-5	B-7	B-8	B-9	B-10	B-11	B-12	B-14	B-15	B-16	B-17	B-18
Sample Depth					1'-3'	4'-7.5'	4'-7.5'	0'-2'	8'-10'	0.5'-2.5'	0.5'-2.5'	1'-3'	2'-4'	0.5'-2'	0.5'-2'	1'-2'	2.5'-4.5'	0'-2'	4'-6'	5'-7'
Lab Sample Number		Unrestricted	C3194-04	C3194-03	C3149-06	C3149-07	C3149-08	C3149-09	C3149-05	C3167-02	C3167-01	C3167-06	C3167-05	C3167-03	C3167-04	C3167-08	C3167-09	C3167-10	C3167-11	C3167-07
Sampling Date		Soil Cleanup	8/1/2011	8/1/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ppb	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS #																			
1,4-Dichlorobenzene	106-46-7	1,800	0.46 U	0.45 U	0.42 U	0.44 U	0.43 U	0.45 U	0.47 U	0.49 U	0.46 U	0.47 U	0.45 U	0.5 U	0.46 U	4 J	0.45 U	0.45 U	0.49 U	0.44 U
Acetone	67-64-1	50	3.4 U	3.3 U	3.1 U	3.2 U	3.2 U	3.3 U	3.5 U	3.6 U	3.4 U	3.5 U	3.3 U	3.7 U	3.4 U	41	41	19 J	130	3.2 U
Carbon Disulfide	75-15-0		1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U	1.2 U	12	4.4 J	11	1.3 U	1.1 U
Ethyl Benzene	100-41-4	1,000	0.69 U	0.68 U	0.64 U	0.66 U	0.65 U	0.68 U	0.71 U	0.74 U	0.7 U	0.72 U	0.69 U	0.75 U	0.7 U	0.73 U	2.3 J	1.2 J	1.4 J	0.66 U
Isopropylbenzene	98-82-8		0.54 U	0.52 U	0.49 U	0.51 U	0.5 U	0.52 U	0.55 U	0.57 U	0.54 U	0.55 U	0.53 U	0.58 U	0.54 U	1.3 J	0.53 U	0.53 U	0.57 U	0.51 U
m/p-Xylenes	179601-23-1		0.8 U	0.79 U	0.74 U	0.77 U	0.75 U	0.78 U	0.82 U	0.86 U	0.82 U	0.83 U	0.8 U	0.87 U	0.81 U	0.85 U	8.3 J	4.4 J	5.5 J	0.77 U
Methylene Chloride	75-09-2	50	4.2 JB	2.3 JB	14	14	14	15	15	2.1 J	5.8	8.9	1.6 U	1.7 U	3 J	14	6.9	4.7 J	10	1.5 U
o-Xylene	95-47-6		0.76 U	0.74 U	0.7 U	0.72 U	0.71 U	0.74 U	0.78 U	0.81 U	0.77 U	0.78 U	0.75 U	0.82 U	0.77 U	0.8 U	4.4 J	2.2 J	2 J	0.73 U
Total Concentration.			4.2	2.3	14	14	14	15	15	2.1	5.8	8.9	0	0	3	72.3	67.3	42.5	148.9	0
Total TICs			12	19.4		6.3	7.9	7.5		13	13.2	40.8			14	29.2				20.6

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 2B-Soil Sample Results Summary
Semi-Volatile Organic Compounds (SVOCs)
W.O. 5886.01
Lower South Street, Peekskill, NY

TECTONIC
Practical Solutions, Exceptional Service

Sample ID		Part 375-6.8(a)	TP-2	TP-3	B-1-1-3	B-2-4-6	B-402-6-7.5	B-3-0-2	B-6-8-10	B-7-0.5-2.5	B-8-0.5-2.5	B-9-1-3	B-10-2-4	B-11-0.5-2	B-12-0.5-2	B-14-1-2	B-15-2.5-4.5	B-16-0-2	B-17-4-6	B-18-5-7
Boring #					B-1	B-2	B-2	B-3	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-14	B-15	B-16	B-17	B-18
Sample Depth					1'-3'	4'-7.5'	4'-7.5'	0'-2'	8'-10'	0.5'-2.5'	0.5'-2.5'	1'-3'	2'-4'	0.5'-2'	0.5'-2'	1'-2'	2.5'-4.5'	0'-2'	4'-6'	5'-7'
Lab Sample Number		Unrestricted	C3194-04	C3194-03	C3149-06	C3149-07	C3149-08	C3149-09	C3149-05	C3167-02	C3167-01	C3167-06	C3167-05	C3167-03	C3167-04	C3167-08	C3167-09	C3167-10	C3167-11	C3167-07
Sampling Date		Soil Cleanup	8/1/2011	8/1/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	1	1	1	5	5	5	5	5	5	5	1	5	1	1
Units		ppb	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS #																			
Anthracene	120-12-7	100,000	7.6 U	7.4 U	6.9 U	7.2 U	7.1 U	7.4 U	73 J	400 J	39 U	120 U	110 U	41 U	1000 J	2000 J	330 J	1400 J	24 U	140 J
Benzo(a)anthracene	56-55-3	1,000	.18 U	17 U	16 U	17 U	17 U	17 U	300 J	1400 J	810 J	2400 J	1200 J	370 J	4600 J	7700	1200	6100	57 U	560 J
Benzo(a)pyrene	50-32-8	1,000	8.1 U	7.8 U	7.3 U	7.6 U	7.6 U	7.9 U	340 J	1600 J	1200 J	2600 J	1400 J	410 J	5200 J	9000	1200	6000	26 U	590 J
Benzo(b)fluoranthene	205-99-2	1,000	12 U	12 U	11 U	12 U	11 U	12 U	400	1900 J	740 J	3000 J	1800 J	500 J	6000	11000	1400	7000	39 U	720 J
Benzo(g,h,i)perylene	191-24-2	100,000	15 U	15 U	14 U	14 U	14 U	15 U	220 J	970 J	680 J	1500 J	1000 J	290 J	3300 J	5300 J	660 J	3400 J	48 U	370 J
Benzo(k)fluoranthene	207-08-9	800	18 U	17 U	16 U	17 U	16 U	17 U	140 J	780 J	89 U	1100 J	260 U	94 U	2300 J	3200 J	610 J	2800 J	56 U	250 J
bis(2-Ethylhexyl)phthalate	117-81-7		120 J	120 J	67 J	96 J	53 J	80 J	120 J	1500 J	1400 J	4600 J	4300 J	1600 J	4500 J	4800 J	1100 J	4200 J	990 J	930 J
Butylbenzylphthalate	85-68-7		18 U	17 U	16 U	17 U	17 U	18 U	18 U	95 U	91 U	280 U	260 U	96 U	270 U	280 U	53 U	260 U	57 U	810 J
Chrysene	218-01-9	1,000	17 U	16 U	15 U	16 U	16 U	17 U	310 J	1500 J	1100 J	2500 J	1300 J	380 J	4800 J	7900	1300	6000	54 U	560 J
Dibenz(a,h)anthracene	53-70-3	330	11 U	10 U	9.8 U	10 U	10 U	11 U	11 U	280 J	54 U	170 U	160 U	58 U	890 J	1500 J	200 J	920 J	34 U	31 U
Fluoranthene	206-44-0	100,000	7.5 U	7.3 U	6.8 U	7.1 U	7 U	7.3 U	500	2600	850 J	4500 J	1900 J	630 J	8700	14000	2300	12000	24 U	1000 J
Indeno(1,2,3-cd)pyrene	193-39-5	500	12 U	12 U	11 U	12 U	12 U	12 U	180 J	910 J	330 J	1500 J	890 J	270 J	3100 J	5100 J	650 J	3200 J	39 U	350 J
Phenanthrene	85-01-8	100,000	10 U	9.8 U	9.2 U	9.5 U	9.5 U	9.9 U	290 J	1400 J	590 J	2200 J	770 J	260 J	3700 J	6000	1200	4900 J	32 U	510 J
Pyrene	129-00-0	100,000	9 U	8.7 U	8.1 U	8.5 U	8.4 U	8.8 U	450	2300	1200 J	4400 J	1900 J	540 J	7800	12000	1900	11000	28 U	900 J
Total Concentration.			120	120	67	96	53	80	3323	17540	8900	30300	16460	5250	55890	89500	14050	68920	990	7690
Total TICs			2420	1860	1610	1600	1400	1870	1550	3950	7670	2500	2300	790	8500	15700	4860	10600	4330	8280

Rationale for 1,000 1,000 1,000 100000 39000 3900

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 2C-Soil Sample Results Summary
TPH
W.O. 5886.01
Lower South Street, Peekskill, NY

TECTONIC
Practical Solutions, Exceptional Service

Sample ID		Part 375-6.8(a)	TP-2	TP-3	B-1-1-3	B-2-4-6	B-402-6-7.5	B-3-0-2	B-6-8-10	B-7-0.5-2.5	B-8-0.5-2.5	B-9-1-3	B-10-2-4	B-11-0.5-2	B-12-0.5-2	B-14-1-2	B-15-2.5-4.5	B-16-0-2	B-17-4-6	B-18-5-7
Boring #					B-1	B-2	B-2	B-3	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-14	B-15	B-16	B-17	B-18
Sample Depth					1'-3'	4'-7.5'	4'-7.5'	0'-2'	8'-10'	0.5'-2.5'	0.5'-2.5'	1'-3'	2'-4'	0.5'-2'	0.5'-2'	1'-2'	2.5'-4.5'	0'-2'	4'-6'	5'-7'
Lab Sample Number		Unrestricted	C3194-04	C3194-03	C3149-06	C3149-07	C3149-08	C3149-09	C3149-05	C3167-02	C3167-01	C3167-06	C3167-05	C3167-03	C3167-04	C3167-08	C3167-09	C3167-10	C3167-11	C3167-07
Sampling Date		Soil Cleanup	8/1/2011	8/1/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	1	1	10	10	10	10	10	10	10	10	10	10	10	10
Units			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
COMPOUND	CAS #																			
Petroleum Hydrocarbons	Petroleum Hydrocarbons		12336	10468	6282	3112	3281	4550	28600	327962	124025	315918	531354	150715	494204	588662	285961	269659	72000 J	78000 J
Total Concentration.			12336	10468	6282	3112	3281	4550	28600	327962	124025	315918	531354	150715	494204	588662	285961	269659	72000	78000
Total TICs																				

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 2D-Soil Sample Results Summary
Pesticides
W.O. 5886.01
Lower South Street, Peekskill, NY

TECTONIC
Practical Solutions, Exceptional Service

Sample ID		Part 375-6.8(a)	TP-2	TP-3	B-1-1-3	B-2-4-6	B-402-6-7.5	B-3-0-2	B-6-8-10	B-7-0.5-2.5RE	B-8-0.5-2.5	B-9-1-3	B-10-2-4	B-11-0.5-2	B-12-0.5-2	B-14-1-2RE	B-15-2.5-4.5	B-16-0-2	B-17-4-6	B-18-5-7
Boring #					B-1	B-2	B-2	B-3	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-14	B-15	B-16	B-17	B-18
Sample Depth					1'-3'	4'-7.5'	4'-7.5'	0'-2'	8'-10'	0.5'-2.5'	0.5'-2.5'	1'-3'	2'-4'	0.5'-2'	0.5'-2'	1'-2'	2.5'-4.5'	0'-2'	4'-6'	5'-7'
Lab Sample Number		Unrestricted	C3194-04	C3194-03	C3149-06	C3149-07	C3149-08	C3149-09	C3149-05	C3167-02RE	C3167-01	C3167-06	C3167-05	C3167-03	C3167-04	C3167-08RE	C3167-09	C3167-10	C3167-11	C3167-07
Sampling Date		Soil Cleanup	8/1/2011	8/1/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1
Units		ppb	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS #																			
alpha-Chlordane	5103-71-9	94	0.16 U	0.15 U	0.14 U	0.15 U	0.15 U	0.15 U	0.8 U	4.8 JP	0.48 U	4.6 J	5.1 JP	0.5 U	4 JP	6.3 P	3 J	0.47 U	0.5 U	0.45 U
gamma-Chlordane	5103-74-2	NA	0.15 U	0.14 U	0.13 U	0.14 U	0.14 U	0.14 U	0.75 U	3.6 J	0.44 U	5.4 JP	4 J	0.47 U	3.2 J	5.1 J	3.2 J	0.43 U	0.46 U	0.42 U
Total Concentration.			0	0	0	0	0	0	0	8.4	0	10	9.1	0	7.2	11.4	6.2	0	0	0
Total TICs																				

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 2E-Soil Sample Results Summary
PCBs
W.O. 5886.01
Lower South Street, Peekskill, NY

TECTONIC
Practical Solutions, Exceptional Service

Sample ID		Part 375-6.8(a)	TP-2		TP-3		B-1-1-3		B-2-4-6		B-402-6-7.5		B-3-0-2		B-6-8-10		B-7-0.5-2.5		B-8-0.5-2.5		B-9-1-3		B-10-2-4		B-11-0.5-2		B-12-0.5-2		B-14-1-2		B-15-2.5-4.5		B-16-0-2		B-17-4-6		B-18-5-7	
Boring #							B-1		B-2		B-2		B-3		B-6		B-7		B-8		B-9		B-10		B-11		B-12		B-14		B-15		B-16		B-17		B-18	
Sample Depth							1'-3'		4'-7.5'		4'-7.5'		0'-2'		8'-10'		0.5'-2.5'		0.5'-2.5'		1'-3'		2'-4'		0.5'-2'		0.5'-2'		1'-2'		2.5'-4.5'		0'-2'		4'-6'		5'-7'	
Lab Sample Number		Unrestricted	C3194-04		C3194-03		C3149-06		C3149-07		C3149-08		C3149-09		C3149-05		C3167-02		C3167-01		C3167-06		C3167-05		C3167-03		C3167-04		C3167-08		C3167-09		C3167-10		C3167-11		C3167-07	
Sampling Date		Soil Cleanup	8/1/2011		8/1/2011		7/27/2011		7/27/2011		7/27/2011		7/27/2011		7/27/2011		7/28/2011		7/28/2011		7/28/2011		7/28/2011		7/28/2011		7/28/2011		7/28/2011		7/28/2011		7/28/2011		7/28/2011		7/28/2011	
Matrix		Objectives	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
Dilution Factor			1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1		1	
Units		ppb	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
COMPOUND	CAS #																																					
Aroclor-1248	12672-29-6		7.4	U	7.1	U	6.7	U	7	U	6.9	U	7.2	U	7.6	U	23	U	23	U	23	U	22	U	24	U	22	U	140		22	U	22	U	23	U	21	U
Aroclor-1254	11097-69-1		11	J	1.6	U	1.5	U	1.6	U	1.6	U	1.6	U	1.7	U	5.3	U	5.1	U	270		4.9	U	5.4	U	5.1	U	5.2	U	63		5	U	5.3	U	4.8	U
Total Concentration.		100 | 500	11		0		0		0		0		0		0		0		0		270		0		0		0		140		63		0		0		0	
Total TICs																																						

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 2F-Soil Sample Results Summary
Metals
W.O. 5886.01
Lower South Street, Peekskill, NY

TECTONIC
Practical Solutions, Exceptional Service

Sample ID		Part 375-6.8(a)	TP-2	TP-3	B-1-1-3	B-2-4-6	B-402-6-7.5	B-3-0-2	B-6-8-10	B-7-0.5-2.5	B-8-0.5-2.5	B-9-1-3	B-10-2-4	B-11-0.5-2	B-12-0.5-2	B-14-1-2	B-15-2.5-4.5	B-16-0-2	B-17-4-6	B-18-5-7
Boring #					B-1	B-2	B-2	B-3	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-14	B-15	B-16	B-17	B-18
Sample Depth					1'-3'	4'-7.5'	4'-7.5'	0'-2'	8'-10'	0.5'-2.5'	0.5'-2.5'	1'-3'	2'-4'	0.5'-2'	0.5'-2'	1'-2'	2.5'-4.5'	0'-2'	4'-6'	5'-7'
Lab Sample Number		Unrestricted	C3194-04	C3194-03	C3149-06	C3149-07	C3149-08	C3149-09	C3149-05	C3167-02	C3167-01	C3167-06	C3167-05	C3167-03	C3167-04	C3167-08	C3167-09	C3167-10	C3167-11	C3167-07
Sampling Date		Soil Cleanup	8/1/2011	8/1/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011	7/28/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND	CAS #																			
Aluminum	7429-90-5		7900	8940	13000	24000	16300	22800	13300	9990	12500	6530	6310	8490	7840	7330	8370	12500	18300	10400
Antimony	7440-36-0	(SCO- Restricted)	0.528 U	0.535 U	0.421 U	0.413 U	0.439 U	0.409 U	0.466 U	0.66 J	0.64 U	0.937 J	0.506 U	0.494 U	0.639 J	2.7	0.493 U	0.474 U	0.5 U	0.447 U
Arsenic	7440-38-2	13	1.52 N	4.17 N	1.01	0.605 J	0.585 J	1.16	1.77	4.14	4.07	3.89	6.99	4.33	4.06	5.06	3.94	4.08	2.75	1.69
Barium	7440-39-3	350 400 400	137	38.6	567	625	(800)	362	426	318	313	108	89.9	185	127	235	149	169	79.7	257
Beryllium	7440-41-7	7.2	0.153 JN	0.369 N	0.119 JN	0.205 JN	0.118 JN	0.193 JN	0.145 JN	0.218 J	0.27 J	0.28	0.236 J	0.246 J	0.252 J	0.253 J	0.272	0.323	0.341	0.16 J
Cadmium	7440-43-9	2.5	0.057 UN	0.057 UN	0.088 J	0.253	0.096 J	0.044 U	0.116 J	0.395	0.229 J	0.363	0.38	0.291	0.121 J	3.14	0.079 J	0.092 J	0.07 J	0.07 J
Calcium	7440-70-2		4190	247	8050 N	7030 N	6510 N	6300 N	5180 N	32100	39300	53500	51000	47200	71300	27300	53200	21000	4680	8260
Chromium	7440-47-3	30 400 110	24.2 N	9.48 N	36.1	41.5	35.8	20.3	26.7	23 N	38.1 N	16.2 N	13.1 N	18.3 N	15 N	19.5 N	30.7 N	19.5 N	25.5 N	22.5 N
Cobalt	7440-48-4		16.7 N	6.7 N	23.3	31.2	27.9	21	20.8	13.1 N	18.8 N	5.76 N	6.91 N	11.1 N	7.36 N	9.89 N	8.06 N	15.2 N	17.1 N	16.2 N
Copper	7440-50-8	50	24.4	15.3	36.1	35.4	32.1	27.9	26.8	45.5	39.8	47.2	27.6	32.8	20.5	56.9	19.3	36	37.2	40.5
Iron	7439-89-6		14400	15800	18600	41000	22400	17900	17700	20100	20000	9980	11600	14300	11200	17900	12800	18400	19300	17400
Lead	7439-92-1	63 1,000 400	1.5	5.98	0.936	1.03	0.877	2.26	9.63	109	59.1	142	47.9	70.5	47.5	378	31.7	36.5	14.6	10.1
Magnesium	7439-95-4		3400	2850	5450	15800	8200	8270	5990	15400	12200	9700	9830	17100	21900	5850	8250	12800	5970	5500
Manganese	7439-96-5	1600	127 N	219 N	93.4	288	119	110	97.2	241	254	207	206	261	178	241	248	197	205	176
Mercury	7439-97-6	0.18 2.8 0.81	0.002 U	0.007 J	0.008 J	0.003 J	0.002 U	0.02	0.038	0.217	0.17	0.27	0.08	0.197	0.057	1.11 D	0.045	0.093	0.048	0.022
Nickel	7440-02-0	30	16.4	13.3	24.5	29.5	27	17.1	23.9	20.5	24.3	13.1	12.9	17.9	11.9	22.4	14.4	22.5	26.3	19.8
Potassium	7440-09-7		1300	402	4320	4060	5440	2460	3540	2870	2960	1650	1480	2120	1840	1320	3390	1620	657	3280
Silver	7440-22-4	2	0.141 U	0.143 U	0.113 U	0.111 U	0.117 U	0.11 U	0.125 U	0.136 U	0.171 U	0.258 J	0.136 U	0.132 U	0.134 U	0.217 J	0.132 U	0.127 U	0.134 U	0.12 U
Sodium	7440-23-5		466	237	1170 N*	896 N*	887 N*	1110 N*	743 N*	559 N	999 N	787 N	663 N	787 N	581 N	957 N	1080 N	863 N	444 N	657 N
Thallium	7440-28-0		0.254 U	0.258 U	0.203 U	0.199 U	0.211 U	0.271 J	0.225 U	0.245 U	0.309 U	0.246 U	0.244 U	0.238 U	0.241 U	0.228 U	0.238 U	0.229 U	0.241 U	0.216 U
Vanadium	7440-62-2		54.3 N	13.1 N	91.5	104	98	34.8	74.1	46 N	57.1 N	18.9 N	23.6 N	32.6 N	29.2 N	30 N	32.5 N	42.9 N	56.9 N	51.4 N
Zinc	7440-66-6	109 10,000 1,000	23.6	41.8	31.4	65.7	39.6	32.1	36.1	147	96.5	198	87.5	104	64.9	280	50	67.3	44.2	37.5
Total Concentration.			32082.83	28843.863	51495.5	94008.4	60898.08	59469.1	47196.3	81987.73	88864.439	82909.158	81406.096	90735.264	115167.489	61941.06	87677.996	67793.488	49860.709	46129.942
Hexavalent Chromium	18540-29-9	1	0.088 U	0.087 U	0.12 J	0.13 J	0.12 J	0.13 J	0.091 U	0.097 U	0.11 J	0.092 U	0.088 U	0.095 U	0.1 J	0.11 J	0.087 U	0.087 U	0.11 J	0.1 J
Total Concentration.			0	0	0.12	0.13	0.12	0.13	0	0	0.11	0	0	0	0.1	0.11	0	0	0.11	0.1
Total TICs																				

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLES 3A – 3H

TABLE 3A-Soil Sample Results Summary
Volatile Organic Compounds (VOCs)
W.O. 5886.01
Lower South Street, Peekskill, NY

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Sample ID		Part 375-6.8(a)	B-19-4-6	B-21-2-4	B-22-2-4	B-23-1-3	B-24-1-3	B-25-2-4	B-26-2-4	B-27-1-3RE	B-28-1-3	B-29-1-3	B-429-3-4.5	B-30-2-4	B-31-2-4	B-32-2-4	B-33-0-2RE	B-34-2-4	B-35-2-4	B-36-0-2	B-37-1-3	B-38-0.5-2.5RE	TP-10	TP-12
Boring #			B-19	B-21	B-22	B-23	B-24	B-25	B-26	B-27	B-28	B-29	B-29	B-30	B-31	B-32	B-33	B-34	B-35	B-36	B-37	B-38		
Sample Depth			4'-6'	2'-4'	2'-4'	1'-3'	1'-3'	2'-4'	2'-4'	1'-3'	1'-3'	1' - 4.5'	1' - 4.5'	2'-4'	2'-4'	2'-4'	0'-2'	2'-4'	2'-4'	0'-2'	1'-3'	0.5'-2.5'		
Lab Sample Number		Unrestricted	C3167-12	C3137-03	C3137-06	C3137-05	C3149-04	C3149-03	C3137-12	C3137-11RE	C3137-10	C3137-07	C3137-09	C3137-08	C3137-04	C3137-02	C3137-01RE	C3149-01	C3149-02	C3167-13	C3167-15	C3167-14RE	C3194-02	C3215-01
Sampling Date		Soil Cleanup	7/28/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	8/1/2011	8/2/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ppb	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS #																							
1,2-Dichlorobenzene	95-50-1	1,100	0.73 U	0.69 U	0.83 U	0.7 U	0.7 U	0.7 U	110	1.4 U	3.6 J	0.84 U	0.72 U	0.72 U	0.7 U	0.72 U	0.67 U	0.69 U	0.69 U	0.68 U	0.67 U	0.81 U	0.71 U	0.71 U
1,3-Dichlorobenzene	541-73-1	2,400	0.44 U	0.41 U	0.49 U	0.42 U	0.42 U	0.42 U	42	0.86 U	0.42 U	0.5 U	0.43 U	0.43 U	0.42 U	0.43 U	0.4 U	0.41 U	0.41 U	0.41 U	0.4 U	0.48 U	0.42 U	0.42 U
1,4-Dichlorobenzene	106-46-7	1,800	0.48 U	0.45 U	3.2 J	0.46 U	0.46 U	0.46 U	340 JD	0.96 U	1.4 J	2.6 J	0.47 U	1.3 J	1.8 J	0.48 U	0.44 U	0.46 U	0.45 U	0.45 U	1.2 J	1.4 J	0.47 U	0.47 U
2-Butanone	78-93-3		3.7 U	3.4 U	4.1 U	3.5 U	3.5 U	3.5 U	3.5 U	7.3 U	3.5 U	4.2 U	3.6 U	3.6 U	3.5 U	3.6 U	3.3 U	3.5 U	3.4 U	3.4 U	3.4 U	4 U	3.5 U	8 J
Acetone	67-64-1	50	3.6 U	46	4 U	3.4 U	3.4 U	49	3.4 U	7.1 U	45	25 J	3.5 U	31	3.4 U	3.5 U	3.2 U	42	3.3 U	36	52	3.9 U	3.4 U	53
Benzene	71-43-2	60	0.45 U	0.42 U	0.76 J	0.43 U	0.43 U	0.43 U	0.42 U	0.89 U	0.43 U	0.51 U	0.44 U	0.44 U	4.1 J	0.44 U	0.41 U	0.43 U	0.42 U	0.42 U	0.41 U	0.49 U	0.43 U	0.43 U
Carbon Disulfide	75-15-0		1.2 U	3.8 J	3.5 J	1.2 U	1.2 U	9.3	7.3	2.5 U	1.2 U	7.1	4 J	3.8 J	4 J	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U	12	2.2 J	1.2 U	2.6 J
Chlorobenzene	108-90-7	1,100	0.59 U	0.55 U	0.67 U	0.57 U	0.57 U	0.57 U	310 JD	1.2 U	0.57 U	0.68 U	0.58 U	0.58 U	0.56 U	0.58 U	0.54 U	0.56 U	0.55 U	0.55 U	0.54 U	0.65 U	0.57 U	0.57 U
Ethyl Benzene	100-41-4	1,000	0.73 U	1.1 J	26	0.7 U	0.7 U	0.7 U	3.4 J	1.4 U	4.3 J	9.8	2.1 J	5.5 J	2.7 J	0.72 U	0.67 U	5.8	0.69 U	4 J	7.7	0.81 U	0.71 U	0.71 U
Isopropylbenzene	98-82-8		0.57 U	6.7	28	0.54 U	0.54 U	0.54 U	9.1	2.5 J	2.4 J	2.7 J	8.9	2.5 J	54	1.8 J	0.52 U	7.1	0.53 U	0.53 U	2.6 J	3.6 J	0.55 U	0.55 U
m/p-Xylenes	179601-23-1		0.85 U	3.6 J	18	0.81 U	0.81 U	0.82 U	8.2 J	1.7 U	18	7.3 J	4 J	8.5 J	72	0.83 U	0.77 U	19	0.8 U	7.6 J	11	0.94 U	0.82 U	0.82 U
Methylene Chloride	75-09-2		8.8	1.6 U	27	1.6 U	8.9	6.2	3.4 J	15	5 J	4.1 J	1.6 U	1.6 U	2.4 J	4.6 J	1.5 U	6.7	5.5 J	14	13	22	1.6 U	3.2 JB
o-Xylene	95-47-6		0.8 U	2.9 J	25	0.77 U	0.77 U	0.77 U	6.3	1.6 U	11	4.5 J	3.8 J	5.3 J	2.3 J	0.79 U	0.73 U	13	0.75 U	5.2 J	7.5	0.88 U	0.78 U	0.78 U
Styrene	100-42-5		0.53 U	0.5 U	0.6 U	0.51 U	0.51 U	0.51 U	0.5 U	1.1 U	2.4 J	41	0.52 U	0.52 U	0.51 U	0.52 U	0.48 U	0.5 U	0.5 U	7.1	1.7 J	0.59 U	0.51 U	0.51 U
Toluene	108-88-3	700	0.75 U	0.71 U	1.9 J	0.72 U	0.72 U	0.72 U	0.71 U	1.5 U	3.2 J	0.87 U	0.74 U	2.1 J	2.2 J	0.74 U	0.69 U	1.3 J	0.71 U	3.8 J	4.6 J	0.83 U	0.73 U	0.73 U
Trichloroethene	79-01-6	470	1 U	0.95 U	1.1 U	0.97 U	0.97 U	0.97 U	0.96 U	2 U	0.98 U	1.2 U	0.99 U	0.99 U	0.97 U	1 U	0.92 U	0.96 U	0.95 U	7.8	0.93 U	1.1 U	0.98 U	0.98 U
Total Concentration.			8.8	64.1	133.36	0	8.9	64.5	1000.93	17.5	96.3	104.1	22.8	60	163.3	6.4	0	96.8	8.9	109.5	113.3	29.2	0	56.8
Total TICs			6.3	6440	483		7.3	180.1	73.1		183	524	1870	173	2190	29.8		988	7.6	278.4	329.4		32.7	27.5

Qualifiers

U - The compound was not detected at the indicated concentration.
N - Presumptive Evidence of a Compound
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.
B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
E (Inorganics) - The reported value is estimated because of the presence of interference.
D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.
NR - Not analyzed

TABLE 3B-Soil Sample Results Summary
Semi-Volatile Organic Compounds (SVOCs)
W.O. 5886.01
Lower South Street, Peekskill, NY

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Sample ID		Part 375-6.8(a)	B-19-4-5	B-21-2-4	B-22-2-4	B-23-1-3	B-24-1-3	B-25-2-4	B-26-2-4	B-27-1-3	B-28-1-3	B-29-1-3	B-429-3-4.5	B-30-2-4	B-31-2-4	B-32-2-4	B-33-0-2	B-34-2-4	B-35-2-4	B-36-0-2	B-37-1-3	B-38-0.5-2.5	TP-10	TP-12
Boring #			B-19	B-21	B-22	B-23	B-24	B-25	B-26	B-27	B-28	B-29	B-29	B-30	B-31	B-32	B-33	B-34	B-35	B-36	B-37	B-38		
Sample Depth			4'-6'	2'-4'	2'-4'	1'-3'	1'-3'	2'-4'	2'-4'	1'-3'	1'-3'	1' - 4.5'	1' - 4.5'	2'-4'	2'-4'	2'-4'	0'-2'	2'-4'	2'-4'	0'-2'	1'-3'	0.5'-2.5'		
Lab Sample Number		Unrestricted	C3167-12	C3137-03	C3137-06	C3137-05	C3149-04	C3149-03	C3137-12	C3137-11	C3137-10	C3137-07	C3137-09	C3137-08	C3137-04	C3137-02	C3137-01	C3149-01	C3149-02	C3167-13	C3167-15	C3167-14	C3194-02	C3215-01
Sampling Date		Soil Cleanup	7/28/2011	7/26/2011	7/26/2011	7/28/2011	7/27/2011	7/27/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	8/1/2011	8/2/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			5	5	5	5	20	5	5	1	5	5	5	5	5	5	5	10	10	5	5	1	5	5
Units		ppm	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS #																							
Acenaphthene	83-32-9	20,000	170 U	150 U	3000 J	160 U	5200 J	160 U	160 U	65 U	160 U	190 U	770 J	160 U	160 U	160 U	150 U	1500 J	310 U	180 U	150 U	440 J	160 U	4400 J
Anthracene	120-12-7	100,000	770 J	1700 J	7400	110 U	12000 J	110 U	110 U	440 J	120 U	1300 J	1500 J	980 J	1200 J	120 U	110 U	2800 J	1400 J	1400 J	110 U	440 J	120 U	7300
Benzo(a)anthracene	56-55-3	1,000	2900 J	1900 J	16000	1300 J	23000	710 J	890 J	1300 J	860 J	2700 J	2900 J	4200 J	2800 J	810 J	260 U	5300 J	5000 J	4100 J	1300 J	950 J	270 U	8300
Benzo(a)pyrene	50-32-8	1,000	3200 J	1500 J	14000	1300 J	21000 J	120 U	850 J	1200 J	720 J	2400 J	2400 J	4600 J	2600 J	790 J	120 U	4100 J	4800 J	4700 J	1300 J	1000 J	120 U	6600
Benzo(b)fluoranthene	205-99-2	1,000	3500 J	2100 J	18000	1700 J	31000	850 J	1100 J	1600 J	910 J	3000 J	3300 J	6300	3600 J	1100 J	720 J	5300 J	5600 J	5300 J	1700 J	1200 J	190 U	9200
Benzo(g,h,i)perylene	191-24-2	100,000	1900 J	220 U	5600 J	230 U	11000 J	230 U	230 U	680 J	230 U	2100 J	1300 J	2100 J	1200 J	230 U	220 U	2200 J	3000 J	2600 J	780 J	530 J	230 U	3200 J
Benzo(k)fluoranthene	207-08-9	800 .3900	1500 J	710 J	6000 J	270 U	9300 J	260 U	260 U	700 J	270 U	1300 J	1100 J	2200 J	1000 J	270 U	250 U	2000 J	2000 J	1900 J	250 U	450 J	270 U	2700 J
bis(2-Ethylhexyl)phthalate	117-81-7		4500 J	1100 J	1300 J	890 J	790 U	200 U	1300 J	1600 J	880 J	1000 J	850 J	200 U	740 J	200 U	190 U	400 U	390 U	4800 J	190 U	1200 J	200 U	200 U
Butylbenzylphthalate	85-68-7		280 U	260 U	1500 J	270 U	1100 U	270 U	270 U	110 U	270 U	320 U	280 U	280 U	270 U	270 U	260 U	540 U	520 U	270 U	260 U	980 J	270 U	270 U
Carbazole	86-74-8		130 U	120 U	1800 J	120 U	3900 J	120 U	120 U	51 U	120 U	150 U	130 U	850 J	120 U	120 U	120 U	1500 J	240 U	120 U	120 U	28 U	120 U	3700 J
Chrysene	218-01-9	1,000 3,900	2900 J	1900 J	14000	1300 J	26000	850 J	900 J	1400 J	840 J	2600 J	2700 J	5100 J	2700 J	850 J	240 U	5600 J	5500 J	4000 J	1300 J	980 J	260 U	7300
Dibenz(a,h)anthracene	53-70-3	330	170 U	160 U	1600 J	160 U	3100 J	160 U	160 U	67 U	160 U	190 U	170 U	170 U	160 U	160 U	150 U	320 U	310 U	810 J	150 U	170 J	160 U	960 J
Dibenzofuran	132-64-9		230 U	210 U	1200 J	220 U	3800 J	220 U	220 U	90 U	220 U	260 U	230 U	230 U	220 U	220 U	210 U	1800 J	430 U	220 U	210 U	220 J	220 U	2900 J
Fluoranthene	206-44-0	100,000	5000 J	5200 J	29000	2400 J	62000	1900 J	1800 J	2100 J	2000 J	5800 J	6600	9400	5900	1600 J	1100 J	14000	8500 J	6700	2600 J	2100	110 U	18000
Fluorene	86-73-7	30,000	220 U	980 J	2900 J	210 U	8000 J	210 U	210 U	310 J	210 U	860 J	940 J	220 U	210 U	220 U	200 U	1400 J	410 U	210 U	200 U	400 J	210 U	5200 J
Indeno(1,2,3-cd)pyrene	193-39-5	500	1700 J	180 U	5400 J	190 U	8900 J	190 U	190 U	590 J	190 U	1300 J	1000 J	1600 J	940 J	190 U	180 U	1900 J	2100 J	2600 J	180 U	520 J	190 U	2500 J
Naphthalene	91-20-3	12,000	200 U	190 U	230 U	190 U	770 U	190 U	2000 J	2200 J	200 U	230 U	200 U	750 J	200 U	200 U	180 U	390 U	380 U	190 U	180 U	45 U	200 U	190 U
Phenanthrene	85-01-8	100,000	2300 J	4500 J	19000	870 J	46000	880 J	1500 J	1000 J	2200 J	3500 J	4600 J	5900	4000 J	720 J	140 U	18000	6500 J	4000 J	1800 J	1400	150 U	20000
Pyrene	129-00-0	100,000	4400 J	4300 J	26000	2500 J	51000	1600 J	1700 J	1900 J	1700 J	4900 J	5700 J	8000	5000 J	1400 J	970 J	13000	9600 J	6000	2500 J	1800	140 U	14000
Total Concentration.			34570	25890	173700	12260	325200	6790	12040	17360	10110	32760	35660	51980	31680	7270	2790	78400	54000	48910	13280	14780	0	116250
Total TICs			5700	140800	144400	7200	64600	3800	38200	207400	26400	82900	24400	10400	11800	11300	3000	16600	11000	8800	4000	11890	5100	34100

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 3C-Soil Sample Results Summary
TPH
W.O. 5886.01
Lower South Street, Peekskill, NY

TECTONIC
Practical Solutions, Exceptional Service

Sample ID		Part 375-6.8(a)	B-19-4-6	B-21-2-4	B-22-2-4	B-23-1-3	B-24-1-3	B-25-2-4	B-26-2-4	B-27-1-3	B-28-1-3	B-29-1-3	B-429-3-4.5	B-30-2-4	B-31-2-4	B-32-2-4	B-33-0-2	B-34-2-4	B-35-2-4	B-36-0-2	B-37-1-3	B-38-0.5-2.5	TP-10	TP-12
Boring #			B-19	B-21	B-22	B-23	B-24	B-25	B-26	B-27	B-28	B-29	B-29	B-30	B-31	B-32	B-33	B-34	B-35	B-36	B-37	B-38		
Sample Depth			4'-6'	2'-4'	2'-4'	1'-3'	1'-3'	2'-4'	2'-4'	1'-3'	1'-3'	1' - 4.5'	1' - 4.5'	2'-4'	2'-4'	2'-4'	0'-2'	2'-4'	2'-4'	0'-2'	1'-3'	0.5'-2.5'		
Lab Sample Number		Unrestricted	C3167-12	C3137-03	C3137-06	C3137-05	C3149-04	C3149-03	C3137-12	C3137-11	C3137-10	C3137-07	C3137-09	C3137-08	C3137-04	C3137-02	C3137-01	C3149-01	C3149-02	C3167-13	C3167-15	C3167-14	C3194-02	C3215-01
Sampling Date		Soil Cleanup	7/28/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	8/1/2011	8/2/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			10	20	10	10	10	10	10	10	10	10	10	10	10	5	10	10	10	10	10	10	10	10
Units			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
COMPOUND	CAS #																							
Petroleum Hydrocarbons	Petroleum Hydrocarbons		305988	2083972	979937	525780	692052	391388	555140	673453	545545	1728067	826761	1121890	919188	66067	159801	1040893	1475448	321053	900108	408853	510870	1474033
Total Concentration.			305988	2083972	979937	525780	692052	391388	555140	673453	545545	1728067	826761	1121890	919188	66067	159801	1040893	1475448	321053	900108	408853	510870	1474033

Total TICs

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 3D-Soil Sample Results Summary
Pesticides
W.O. 5886.01
Lower South Street, Peekskill, NY

TECTONIC
Practical Solutions, Exceptional Service

Sample ID		Part 375-6.8(a)	B-19-4-6	B-21-2-4	B-22-2-4	B-23-1-3	B-24-1-3RE	B-25-2-4	B-26-2-4	B-27-1-3	B-28-1-3	B-29-1-3	B-429-3-4.5	B-30-2-4	B-31-2-4	B-32-2-4	B-33-0-2	B-34-2-4RE	B-35-2-4	B-36-0-2	B-37-1-3	B-38-0.5-2.5	TP-10RE	TP-12
Boring #			B-19	B-21	B-22	B-23	B-24	B-25	B-26	B-27	B-28	B-29	B-29	B-30	B-31	B-32	B-33	B-34	B-35	B-36	B-37	B-38		
Sample Depth			4'-6'	2' - 4'	2'-4'	1'-3'	1'-3'	2'-4'	2'-4'	1'-3'	1'-3'	1' - 4.5'	1' - 4.5'	2'-4'	2'-4'	2'-4'	0'-2'	2'-4'	2'-4'	0'-2'	1'-3'	0.5'-2.5'		
Lab Sample Number		Unrestricted	C3167-12	C3137-03	C3137-06	C3137-05	C3149-04RE	C3149-03	C3137-12	C3137-11	C3137-10	C3137-07	C3137-09	C3137-08	C3137-04	C3137-02	C3137-01	C3149-01RE	C3149-02	C3167-13	C3167-15	C3167-14	C3194-02RE	C3215-01
Sampling Date		Soil Cleanup	7/28/2011	7/28/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	8/1/2011	8/2/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ppb	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS #																							
alpha-Chlordane	5103-71-9	94 4.2.00	4.6 J	0.46 U	4.5 J	5.6 JP	0.79 U	0.78 U	0.47 U	0.97 U	0.48 U	4.9 JP	5.6 JP	5.9 JP	4.5 J	0.48 U	0.45 U	2.6 P	4.7 P	8.1	4.7 J	5.8 JP	8.3 P	0.48 U
gamma-Chlordane	5103-74-2	NA	4.3 J	0.43 U	3.5 J	4.4 JP	0.73 U	0.73 U	0.44 U	0.9 U	0.44 U	4.1 J	5.8 J	4.5 J	4.4 J	0.45 U	0.41 U	1.8 JP	4.2 P	8.7 P	4.8 J	4.9 J	8.4 P	0.44 U
Total Concentration.			8.9	0	8	10	0	0	0	0	0	9	11.4	10.4	8.9	0	0	4.4	8.9	16.8	9.5	10.7	16.7	0

Total TICs

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 3E-Soil Sample Results Summary
PCBs
W.O. 5886.01
Lower South Street, Peekskill, NY

TECTONIC
Practical Solutions, Exceptional Service

Sample ID		Part 375-6.8(a)	B-19-4-6	B-21-2-4	B-22-2-4	B-23-1-3	B-24-1-3	B-25-2-4	B-26-2-4	B-27-1-3	B-28-1-3	B-29-1-3	B-429-3-4.5	B-30-2-4	B-31-2-4	B-32-2-4	B-33-0-2	B-34-2-4	B-35-2-4	B-36-0-2	B-37-1-3	B-38-0.5-2.5	TP-10	TP-12
Boring #			B-19	B-21	B-22	B-23	B-24	B-25	B-26	B-27	B-28	B-29	B-29	B-30	B-31	B-32	B-33	B-34	B-35	B-36	B-37	B-38		
Sample Depth			4'-6'	2'-4'	2'-4'	1'-3'	1'-3'	2'-4'	2'-4'	1'-3'	1'-3'	1' - 4.5'	1' - 4.5'	2'-4'	2'-4'	2'-4'	0'-2'	2'-4'	2'-4'	0'-2'	1'-3'	0.5'-2.5'		
Lab Sample Number		Unrestricted	C3167-12	C3137-03	C3137-06	C3137-05	C3149-04	C3149-03	C3137-12	C3137-11	C3137-10	C3137-07	C3137-09	C3137-08	C3137-04	C3137-02	C3137-01	C3149-01	C3149-02	C3167-13	C3167-15	C3167-14	C3194-02	C3215-01
Sampling Date		Soil Cleanup	7/28/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	8/1/2011	8/2/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ppb	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
COMPOUND	CAS #																							
Aroclor-1242	53469-21-9		12 U	11 U	14 U	12 U	3.8 U	18000 D	11 U	24 U	12 U	14 U	12 U	12 U	12 U	12 U	11 U	3.8 U	3.7 U	11 U	630	13 U	11 U	12 U
Aroclor-1248	12672-29-6		23 U	22 U	190	22 U	7.4 U	7.4 U	180	46 U	630 P	230	280 P	110	200	23 U	21 U	31	53	22 U	21 U	26 U	22 U	22 U
Aroclor-1254	11097-69-1		5.2 U	4.9 U	5.9 U	5.1 U	1.7 U	1.7 U	5 U	10 U	5.1 U	6 U	5.2 U	5.1 U	5.1 U	5.1 U	4.8 U	1.7 U	1.6 U	290	4.8 U	5.8 U	5 U	1700 D
Aroclor-1260	11096-82-5		14 U	500	16 U	14 U	4.6 U	4.6 U	14 U	29 U	450 P	17 U	14 U	14 U	14 U	14 U	13 U	4.6 U	4.5 U	14 U	13 U	16 U	14 U	14 U
Total Concentration.		100 1,000	0	500	190	0	0	2500	180	0	1080	230	280	110	200	0	0	31	53	290	630	0	0	1800

Total TICs

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 3F-Soil Sample Results Summary
Metals
W.O. 5886.01
Lower South Street, Peekskill, NY

TECTONIC
Practical Solutions, Exceptional Service

Sample ID		Part 375-6.8(a)	B-19-4-6	B-21-2-4	B-22-2-4	B-23-1-3	B-24-1-3	B-25-2-4	B-26-2-4	B-27-1-3	B-28-1-3	B-29-1-3	B-429-3-4.5	B-30-2-4	B-31-2-4	B-32-2-4	B-33-0-2	B-34-2-4	B-35-2-4	B-36-0-2	B-37-1-3	B-38-0.5-2.5	TP-10	TP-12
Boring #			B-19	B-21	B-22	B-23	B-24	B-25	B-26	B-27	B-28	B-29	B-29	B-30	B-31	B-32	B-33	B-34	B-35	B-36	B-37	B-38		
Sample Depth			4'-6'	2'-4'	2'-4'	1'-3'	1'-3'	2'-4'	2'-4'	1'-3'	1'-3'	1' - 4.5'	1' - 4.5'	2'-4'	2'-4'	2'-4'	0'-2'	2'-4'	2'-4'	0'-2'	1'-3'	0.5'-2.5'		
Lab Sample Number		Unrestricted	C3167-12	C3137-03	C3137-06	C3137-05	C3149-04	C3149-03	C3137-12	C3137-11	C3137-10	C3137-07	C3137-09	C3137-08	C3137-04	C3137-02	C3137-01	C3149-01	C3149-02	C3167-13	C3167-15	C3167-14	C3194-02	C3215-01
Sampling Date		Soil Cleanup	7/28/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/26/2011	7/27/2011	7/27/2011	7/28/2011	7/28/2011	7/28/2011	8/1/2011	8/2/2011
Matrix		Objectives	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ppm	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
COMPOUND	CAS #																							
Aluminum	7429-90-5		10900	8890	9780	12700	4740	5780	14900	11200	10700	10100	9050	7910	13000	8940	11800	6310	4730	6590	5940	9480	2740	7900
Antimony	7440-36-0		0.531 U	0.47 UN	1.72 JN	7.5 N	0.471 U	0.467 U	1.27 JN	1.02 UN	1.33 JN	0.725 JN	0.487 UN	0.492 UN	0.473 JN	0.526 UN	0.8 UN	0.483 U	0.648 J	0.549 J	0.79 J	0.534 U	1.88 J	4.56
Arsenic	7440-38-2	13	2.37	5.84	5.68	3.4	2.44	2.74	7.63	21.1	11.1	14	4.13	4.47	5.48	7.07	3.48	4.45	3.39	4.01	4.11	22.7	12.3 N	0.328 U
Barium	7440-39-3	350 410	162	136	258	131	58.8	83	291	244	74.8	142	125	93.4	283	110	232	78.8	71.4	71.8	124	90	52.8	118 N
Beryllium	7440-41-7	7.2	0.235 J	0.287	0.319	0.359	0.165 JN	0.198 JN	0.358	0.345 J	0.405	0.674	0.351	0.266	0.31	0.281 J	2.45	0.294 N	0.217 JN	0.294	0.218 J	0.262 J	0.115 JN	0.333
Cadmium	7440-43-9	2.5	0.224 J	0.372	1.46	0.238 J	0.149 J	0.164 J	1.37	1.43	0.274	0.469	0.324	0.531	0.554	0.429	0.32 J	0.252 J	0.341	0.317	0.336	0.241 J	0.546 N	0.343
Calcium	7440-70-2		10600	33700	29600	38900	35600 N	33300 N	50100	58400	87000	57800	63400	45800	48500	66500	36500	46800 N	38600 N	62000	54700	13800	33000	56000
Chromium	7440-47-3	30 110	19.5 N	25.4	22	21.9	7.19	13	23.8	43.7	20.9	46.6	22.4	16.8	27.4	20.3	32	13	13.3	11.4 N	15.1 N	44.6 N	13.8 N	20.3 N
Cobalt	7440-48-4		16.7 N	10.8	8.81	10.5	5.62	4.78	17.6	12.9	10.8	14.4	7.66	7.5	14.6	10.3	15	5.38	5.25	6.52 N	7.35 N	12.1 N	13.7 N	8.97
Copper	7440-50-8	50 270	35.3	31.1	70.9	24.3	12.1	15.6	59.3	95.3	24	118	25.3	75.6	55.4	33	42	21.9	31.5	28.1	31.3	43.7	203	38.7
Iron	7439-89-6		18000	16400	17400	16800	9330	8450	29900	21600	19900	18200	15200	14600	20300	14000	19100	11100	10600	12000	11000	13700	17400	16100
Lead	7439-92-1	63 400	43.3	57.7	318	20.2	20.4	37.3	145	95.7	33.9	147	70.1	93.5	87.5	88.9	51.7	60.4	72.6	60.1	57.4	83.2	94.3	65.9
Magnesium	7439-95-4		6900	9990	5230	9850	18400	7900	32600	14200	20500	18400	12300	14300	13700	19400	9330	8540	10400	18300	17600	4780	16100	15400 N
Manganese	7439-96-5	1600	215	261	300	309	183	188	308	361	414	325	288	279	270	221	246	210	189	228	225	127	857 N	225
Mercury	7439-97-6	0.18 0.81	0.192	0.112	2.49 D	0.08	0.05	0.077	0.188	0.12	0.101	0.172	0.134	0.214	0.504	0.079	0.084	0.137	0.829 D	0.134	0.15	0.164	0.053	0.164
Nickel	7440-02-0	30	20.5	19.8	21.9	18	10.8	9.4	24.8	21.1	21.8	25.5	15.6	14.8	23.1	18	29.2	11	11.2	11.7	13.5	18.9	12.4	21.6
Potassium	7440-09-7		1860	2290	1510	2360	874	1440	2460	3120	1740	2160	1890	1550	3400	2120	3220	1210	1060	1370	2110	1370	518	2030
Selenium	7782-49-2	3.9	0.389 U	0.344 U	0.397 U	0.364 U	0.345 U	0.342 U	0.342 U	0.743 U	0.338 U	0.433 U	0.358 U	0.36 U	0.322 U	0.385 U	0.439 U	0.354 U	0.352 U	0.334 U	0.309 U	0.391 U	0.316 U	1.15
Silver	7440-22-4	2	0.142 U	0.126 U	0.326 J	0.133 U	0.126 U	0.125 U	0.237 J	0.272 U	0.124 U	0.158 U	0.13 U	0.18 J	0.118 U	0.141 U	0.161 U	0.13 U	0.129 U	0.122 U	0.113 U	0.143 U	0.116 U	0.149 U
Sodium	7440-23-5		604 N	928 N	829 N	819 N	347 N*	647 N*	907 N	2110 N	728 N	1150 N	1130 N	822 N	1320 N	897 N	952 N	637 N*	487 N*	739 N	643 N	1130 N	556	697
Thallium	7440-28-0		0.256 U	0.226 U	0.261 U	0.265 J	0.227 U	0.225 U	0.225 U	0.489 U	0.222 U	0.285 U	0.235 U	0.405 J	0.212 U	0.253 U	0.532 J	0.452 J	0.269 J	0.22 U	0.204 U	0.257 U	0.208 U	0.872 J
Vanadium	7440-62-2		43.8 N	37.3	35.5	33.2	21.6	19.2	50.6	42.6	22.3	26.6	24.6	27.4	50.9	31.9	55.5	19.1	16.4	27 N	26.3 N	33.1 N	20 N	30.6 N
Zinc	7440-66-6	109 10,000	69.1	98	336	55.7	44.1	67.9	248	777	79.8	720	165	227	154	83.6	118	78.9	88.3	97	108	108	783	109
Total Concentration.			49492.221	72882.181	65729.51	81864.642	69657.414	57958.359	132046.153	112347.315	141283.51	109391.14	103719.086	85823.538	101193.221	112482.385	81730.846	75099.065	66381	101545.924	92605.554	44843.967	72378.894	98772.492
Hexavalent Chromium	18540-29-9	1	0.094	0.088 U	0.103 U	0.088 U	0.14 J	0.089 U	0.13 J	0.27 J	0.088 U	0.16 J	0.093 U	0.092 U	0.083 U	0.62	0.084 U	0.092 U	0.13 J	0.1 J	0.083 U	0.121 J	0.13 J	0.091 U
Total Concentration.			0	0	0	0	0.14	0	0.13	0.27	0	0.16	0	0	0	0.62	0	0	0.13	0.1	0	0.12	0.13	0

Total TICs

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 3G-Soil Sample Results Summary
Reactive Sulfide and Cyanide, Ignitability, Corrosivity
W.O. 5886.01
Lower South Street, Peekskill, NY

TECTONIC
Practical Solutions, Exceptional Service

Sample ID			TP-10	
Lab Sample Number			C3194-07	
Sampling Date			8/1/2011	
Matrix			SOIL	
Dilution Factor			1	
Units			mg/Kg	
COMPOUND	CAS #			
Reactive Sulfide			10	U
Reactive Cyanide			0.05	U
Total Concentration.			0	

Sample ID			TP-10
Lab Sample Number			C3194-07
Sampling Date			8/1/2011
Matrix			SOIL
Dilution Factor			1
Units			o C
COMPOUND	CAS #		
Ignitability			NO
Total Concentration.			NO

Sample ID			TP-10
Lab Sample Number			C3194-07
Sampling Date			8/1/2011
Matrix			SOIL
Dilution Factor			1
Units			pH
COMPOUND	CAS #		
Corrosivity (as pH)			8.11
Total Concentration.			8.11

Total TICs

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 3H-Soil Sample Results Summary
TCLP - Metals
W.O. 5886.01
Lower South Street, Peekskill, NY

TECTONIC
Practical Solutions, Exceptional Service

Sample ID		Part 376		TP-10	
Lab Sample Number				C3194-07	
Sampling Date				8/1/2011	
Matrix		Treatment Standards		TCLP	
Dilution Factor		for Hazardous Wastes		1	
Units		ug/L		ug/L	
COMPOUND	CAS #				
Barium	7440-39-3	100,000		622	
Selenium	7782-49-2	1,000		55.9	J
Total Concentration.				677.9	

Total TICs

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 4

TABLE 4-Soil Sample Results Summary

W.O. 5886.01

Lower South Street, Peekskill, NY

TECTONIC
Practical Solutions, Exceptional Service

Volatile Organic Compounds (VOCs)

Sample ID		Part 375-6.8(a)	TP-6	
Lab Sample Number		Unrestricted	C3194-01	
Sampling Date		Soil Cleanup	8/1/2011	
Matrix		Objectives	SOIL	
Dilution Factor			1	
Units		ppb	ug/Kg	
COMPOUND	CAS #			
Benzene	71-43-2	60	3.6	J
Cyclohexane	110-82-7		2.6	J
Ethyl Benzene	100-41-4	1,000	1.9	J
Isopropylbenzene	98-82-8		1.2	J
m/p-Xylenes	179601-23-1		8	J
Methyl tert-butyl Ether	1634-04-4	930	3.7	J
Methylcyclohexane	108-87-2		11	
Methylene Chloride	75-09-2	50	3.7	JB
o-Xylene	95-47-6		2.9	J
Toluene	108-88-3	700	0.78	J
Total Concentration.			39.38	
Total TICs			686.1	

Semi-Volatile Organic Compounds (SVOCs)

Sample ID		Part 375-6.8(a)	TP-6	
Lab Sample Number		Unrestricted	C3194-01	
Sampling Date		Soil Cleanup	8/1/2011	
Matrix		Objectives	SOIL	
Dilution Factor			1	
Units		ppb	ug/Kg	
COMPOUND	CAS #			
2-Methylnaphthalene	91-57-6		200	J
Anthracene	120-12-7	100,000	260	J
Benzo(a)anthracene	56-55-3	1,000	770	J
Benzo(a)pyrene	50-32-8	1,000	1400	
Benzo(b)fluoranthene	205-99-2	1,000	1100	J
Benzo(g,h,i)perylene	191-24-2	100,000	870	J
Benzo(k)fluoranthene	207-08-9	800	310	J
bis(2-Ethylhexyl)phthalate	117-81-7		14000	D
Butylbenzylphthalate	85-68-7		900	J
Chrysene	218-01-9	1,000	790	J
Di-n-butylphthalate	84-74-2		190	J
Fluoranthene	206-44-0	100,000	1200	
Indeno(1,2,3-cd)pyrene	193-39-5	500	640	J
Phenanthrene	85-01-8	100,000	810	J
Pyrene	129-00-0	100,000	2000	
Total Concentration.			23440	
Total TICs			15920	

TPH

Sample ID		Part 375-6.8(a)	TP-6	
Lab Sample Number		Unrestricted	C3194-01	
Sampling Date		Soil Cleanup	8/1/2011	
Matrix		Objectives	SOIL	
Dilution Factor			50	
Units			ug/kg	
COMPOUND	CAS #			
Petroleum Hydrocarbons			5744222	
Total Concentration.			5744222	

Metals

Sample ID		Part 375-6.8(a)	TP-6	
Lab Sample Number		Unrestricted	C3194-01	
Sampling Date		Soil Cleanup	8/1/2011	
Matrix		Objectives	SOIL	
Dilution Factor			1	
Units		mg/Kg	mg/Kg	
COMPOUND	CAS #			
Aluminum	7429-90-5		6220	
Antimony	7440-36-0		3.04	
Arsenic	7440-38-2	13 (16)	6.69	N
Barium	7440-39-3	350	174	
Beryllium	7440-41-7	7.2	0.197	JN
Cadmium	7440-43-9	2.5 (4.3)	4.21	N
Calcium	7440-70-2		7760	
Chromium	7440-47-3	30 (110)	31.7	N
Cobalt	7440-48-4		11.2	N
Copper	7440-50-8	50 (270)	206	
Iron	7439-89-6		48400	
Lead	7439-92-1	63 (400)	424	
Magnesium	7439-95-4		4160	
Manganese	7439-96-5	1600	288	N
Mercury	7439-97-6	0.18 (0.81)	1.74	D
Nickel	7440-02-0	30 (310)	52.5	
Potassium	7440-09-7		952	
Silver	7440-22-4	2	0.834	
Sodium	7440-23-5		588	
Vanadium	7440-62-2		28.8	N
Zinc	7440-66-6	109 (10,000)	833	
Total Concentration.			70144.171	
Hexavalent Chromium	18540-29-9		0.14	J
Total Concentration.			0.14	

PCBs

Sample ID		Part 375-6.8(a)	TP-6	
Lab Sample Number		Unrestricted	C3194-01	
Sampling Date		Soil Cleanup	8/1/2011	
Matrix		Objectives	SOIL	
Dilution Factor			1	
Units		ppb	ug/Kg	
COMPOUND	CAS #			
Aroclor-1242	53469-21-9		1800	DP
Total Concentration.		100 (500)	1800	

TCLP Metals

Sample ID		Part 371	TP-6	
Lab Sample Number			C3194-06	
Sampling Date		Table 1	8/1/2011	
Matrix		Toxicity Characteristics	TCLP	
Dilution Factor		for Haz. Waste	1	
Units		ug/L	ug/L	
COMPOUND	CAS #			
Barium	7440-39-3	100,000	1330	
Lead	7439-92-1	5,000	416	
Total Concentration.			1746	
Total TICs				

Reactive Sulfide and Cyanide

Sample ID		TP-6	
Lab Sample Number		C3194-06	
Sampling Date		8/1/2011	
Matrix		SOIL	
Dilution Factor		1	
Units		mg/Kg	
COMPOUND	CAS #		
Reactive Sulfide		10	U
Reactive Cyanide		0.05	U
Total Concentration.		0	
Total TICs			

Ignitability

Sample ID		TP-6
Lab Sample Number		C3194-06
Sampling Date		8/1/2011
Matrix		SOIL
Dilution Factor		1
Units		o C
COMPOUND	CAS #	
Ignitability		NO
Total Concentration.		NO
Total TICs		

Corrosivity

Sample ID		TP-6
Lab Sample Number		C3194-06
Sampling Date		8/1/2011
Matrix		SOIL
Dilution Factor		1
Units		pH
COMPOUND	CAS #	
Corrosivity (as pH)		7.88
Total Concentration.		7.88
Total TICs		

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

TABLE 5

TABLE 5-Soil Gas Sample Results Summary

W.O. 5886.01

Lower South Street, Peekskill, NY

TO-15 Air

TECTONIC
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Sample ID		SV-1	SV-2	SV-3	SV-4	SV-5	SV-6	SV-7	SV-8
Lab Sample Number		C3227-01	C3227-03	C3227-04	C3227-02	C3227-07	C3227-05	C3227-06	C3227-08
Sampling Date		8/2/2011	8/2/2011	8/2/2011	8/2/2011	8/2/2011	8/2/2011	8/2/2011	8/2/2011
Matrix		AIR	AIR	AIR	AIR	AIR	AIR	AIR	AIR
Dilution Factor		10	1	10	1	1	1	1	4
Units		Ug/M3	Ug/M3	Ug/M3	Ug/M3	Ug/M3	Ug/M3	Ug/M3	Ug/M3
COMPOUND	CAS #								
1,1,2-Trichlorotrifluoroethane	76-13-1	3.07 U	0.46 J	3.07 U	0.46 J	0.46 J	0.46 J	0.38 J	1.23 U
1,2,4-Trichlorobenzene	120-82-1	2.97 U	0.3 U	2.97 U	0.3 U	0.3 U	0.3 U	0.3 U	14.2 J
1,2,4-Trimethylbenzene	95-63-6	2703	2.26 J	3342	48.2	1.92 J	5.9	0.49 J	23.6 J
1,2-Dichlorobenzene	95-50-1	4.21 U	0.42 U	4.21 U	0.72 J	0.42 U	0.42 U	0.42 U	6.73 J
1,3,5-Trimethylbenzene	108-67-8	211 J	0.69 J	137 J	16.7	0.49 J	2.7	0.44 U	7.87 J
1,4-Dichlorobenzene	106-46-7	48.1 J	0.36 U	3.61 U	0.36 U	0.36 J	0.72 J	0.36 U	12.5 J
2,2,4-Trimethylpentane	540-84-1	1.68E+07 EC	2.52	1.16E+07 EC	11.2	1120 D	9.81	0.93 J	345636 D
2-Butanone	78-93-3	174	25.7	501	27.7	26.8	13.6	0.83 J	330
4-Ethyltoluene	622-96-8	540	0.39 U	3.93 U	3.64	0.39 U	1.13 J	0.39 U	1.57 U
4-Methyl-2-Pentanone	108-10-1	2.46 U	0.49 J	2.46 U	1.6 J	1.68 J	2.01 J	0.41 J	0.98 U
Acetone	67-64-1	2.38 U	736 D	2086	1116 D	1116 D	593 D	6.65	121148 D
Benzene	71-43-2	4153	1.44 J	51114 D	4.47	2.91	2.36	0.26 J	56.2
Carbon Disulfide	75-15-0	1.56 U	5.92	1307	15	5.29	5.92	0.16 U	94.7
Carbon Tetrachloride	56-23-5	2.52 U	0.44 J	2.52 U	0.38 J	0.38 J	0.38 J	0.38 J	1.01 U
Chloroethane	75-00-3	97.6 J	0.18 U	73.9 J	0.18 U	0.18 U	0.18 U	0.18 U	0.74 U
Chloroform	67-66-3	0.98 U	0.1 U	0.98 U	2.83	0.34 J	0.63 J	0.1 U	0.39 U
Chloromethane	74-87-3	1.24 U	0.7 J	1.24 U	1.09	0.78 J	0.95 J	0.7 J	0.5 U
cis-1,2-Dichloroethene	156-59-2	305	0.24 U	130 J	0.24 U	0.32 J	0.24 U	0.24 U	0.95 U
Cyclohexane	110-82-7	963796 D	0.34 J	103264 D	1.51 J	1.72 J	1.82	0.28 U	564
Dichlorodifluoromethane	75-71-8	74.2 J	0.89 J	1.98 U	0.89 J	0.89 J	0.84 J	0.89 J	0.79 U
Ethyl Benzene	100-41-4	117 J	1.69 J	382	3.78	1 J	2.39	1.87 J	95.6
Heptane	142-82-5	491779 D	0.98 J	13933 E	4.92	3.73	6.56	1.39 J	475
Hexane	110-54-3	1.33E+06 D	1.55 J	222033 D	8.34	7.05	7.05	0.56 J	19736 D
m/p-Xylene	179601-23-1	999	2.13 J	999	5.21	2.39 J	5.21	2.56 J	159
Methyl tert-Butyl Ether	1634-04-4	4886	0.58 J	57685 D	0.79 J	2.42	5.41	0.18 U	34.8
Methylene Chloride	75-09-2	1.74 U	1.01 J	1.74 U	1.11 J	0.76 J	1.08 J	0.76 J	0.69 U
o-Xylene	95-47-6	321	1.87 J	1216	4.26	0.87 J	2.74	0.91 J	85.1
Styrene	100-42-5	2.98 U	0.3 J	2.98 U	3.87	0.6 J	1.62 J	0.55 J	1.19 U
tert-butyl alcohol	75-65-0	3.03 U	0.91 J	3.03 U	2.43	2.97	3.64	0.55 J	48.5
Tetrachloroethene	127-18-4	2.03 U	0.2 J	33.9 J	4	8.82	10.2	0.27 J	22.8 J
Toluene	108-88-3	640	5.28	414	21.1	16.6	753 D	49	482
trans-1,2-Dichloroethene	156-60-5	150 J	0.24 U	2.38 U	0.24 U	0.24 U	0.24 U	0.24 U	0.95 U
Trichloroethene	79-01-6	2.15 U	0.21 U	2.15 U	0.38 J	0.81 J	2.58 J	0.21 U	0.86 U
Trichlorofluoromethane	75-69-4	22.5 J	1.24 J	73.1 J	15.7	4.27	2.53 J	0.84 J	51.7
Vinyl Chloride	75-01-4	1303	0.18 U	196	0.18 U	0.26 J	0.18 U	0.18 U	0.72 U
Total Concentration.		100556	147.49	86296.9	324.28	337.89	266.24	71.18	10986.1

Qualifiers

U - The compound was not detected at the indicated concentration.

N - Presumptive Evidence of a Compound

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

E (Organics) - Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

E (Inorganics) - The reported value is estimated because of the presence of interference.

D - The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

NR - Not analyzed

APPENDIX I

ENVIRONMENTAL SITE INVESTIGATION (SI) WORK PLAN LOWER SOUTH STREET CITY OF PEEKSKILL, WESTCHESTER COUNTY, NEW YORK

PREPARED FOR:

CITY OF PEEKSKILL
840 MAIN STREET
PEEKSKILL, NEW YORK 10566

PREPARED BY:

TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.
70 PLEASANT HILL ROAD
MOUNTAINVILLE, NEW YORK 10953

July 22, 2011

TECTONIC

Practical Solutions, Exceptional Service

ENVIRONMENTAL SITE INVESTIGATION WORK PLAN
LOWER SOUTH STREET
CITY OF PEEKSKILL, NEW YORK

TABLE OF CONTENTS

1.0 INTRODUCTION

Tectonic Engineering and Surveying Consultants, PC (Tectonic) is performing due diligence for the City of Peekskill, for the redevelopment of the subject Property, located on two parcels (5 and 6) along Lower South Street in the City of Peekskill, Westchester County, New York. As part of the past due diligence process performed by others and supplemented by our review of existing data and studies, several on-site and off-site recognized environmental conditions were identified with the potential to impact on-site soils and groundwater of the subject Property. These RECs and our approach to address them are discussed within this work plan.

Based on information collected to date, the purpose of this document is to present the Environmental Site Investigation (SI) Work Plan (SI Work Plan) for the subject Property. The SI Work Plan is designed to conduct an investigation to determine if historic operations at the Lower South Street property affected soil and groundwater beneath the site, and if recognized environmental conditions on neighboring and nearby properties have impacted soil and groundwater on the subject property. The SI Work Plan presents the organization, planned activities, and procedures associated with the sampling, and analysis at Parcels 5 and 6 along Lower South Street in the City of Peekskill, Westchester County, New York.

2.0 BACKGROUND

2.1 SITE/FACILITY DESCRIPTION

The subject property is identified as Parcels 5 and 6 located along Lower South Street in the City of Peekskill, Westchester County, New York herein referred to as the "Property" (Figure 1). The Site is located along the eastern side of Lower South Street, in the City of Peekskill, New York. The Site is bordered to the north by Louisa Street; to the east by Route 9; to the south by a vacant industrial/commercial property and HBA Automotive Repair and to the west by Lower South Street. The Site is accessed from entrances located along Lower South Street. The northern portion of Parcel 5 consists of an unoccupied wood framed house and a storm water retention basin, while the southern portion historically consisted of a junk yard and former houses. The northern portion of Parcel 6 historically consisted of a solid waste transfer facility, which included a truck scale and two large metal framed buildings. The two metal framed buildings have been removed and only the truck scale and mobile office remains. The northern portion of Parcel 6 is currently used for storing abandoned vehicles. The southern portion of Parcel

6 consists of a large metal frame structure with 7 large bays and concrete floor slab and is currently being used by the City of Peekskill to store vehicles from the Department of Public Works. The Site slopes down to the west/northwest and ranges in elevation from approximately 30 to 80 feet above mean sea level (AMSL). Copies of a topographic map and an aerial photograph of the site and surrounding area showing the location of the Property are contained in **Appendix A**.

2.2 PROPERTY OWNERSHIP

The current owner of Parcels 5 and 6 located along Lower South Street is the City of Peekskill.

2.3 FACILITY HISTORY

Parcel 5 was previously owned by several entities, most notably in the later years an auto junk yard, then Ginsberg Development Corporation, and now the City of Peekskill. Based on a review of the New York State online Aerial Imagery, the southern portion of Parcel 5 consisted of a junk yard for an unknown time prior to the mid 1990's, while the northern portion appeared to be residentially developed. In the early 2000's, three houses and a garage are shown in the southern portion of the Property. In addition, it appears that there has been some site clearing in the southern portion of Parcel 5. By the late 2000's, the structures in the southern portion have been removed from the Property and large stockpiles are located at the southern end of the parcel.

Parcel 6 was previously owned by Karta Recycling who had developed the property and operated a solid waste and construction and demolition material transfer station on the parcel. Parcel 6 is currently owned by the City of Peekskill. Based on a review of the New York State online Aerial Imagery, Parcel 6 appears to be primarily undeveloped up until the mid 1990's. In the early 2000's, a truck scale and two large metal framed buildings are shown in the northern portion of the parcel, while a large metal frame structure with 7 large bays is shown in the southern portion of Parcel 6. By the late 2000's the two large metal framed buildings in the northern portion have been removed from the parcel.

2.4 INVESTIGATIONS

Site Documents

No previous site investigation documents for the subject Property were provided by the client, however a Remedial Action Workplan (RAW), completed by Hydro Environmental Solutions, Inc. for the adjacent property, dated November 1, 2010 was provided (see **Appendix B**). The RAW identified five (5) areas of concern (AOC), including one AOC (AOC-1) which identified free phase hydrocarbons in the groundwater and acetone in the soil above NYSDEC RSCOs. This AOC is located adjacent to the western portion of Parcel 6.

To further identify if there were any documents pertaining to the subject Property, Tectonic conducted a supplemental records review for the subject Property by sending a FOIL request to the New York State Department of Environmental Conservation (DEC) on June 16, 2011. A response from the DEC, dated June 21, 2011 indicated that after a diligent search, no records could be located (see **Appendix C**).

Site Reconnaissance

Prior to the redevelopment of the property, Tectonic performed an environmental review of the subject Property to identify potential recognized conditions. The investigation followed the procedures of the site reconnaissance prescribed as part of the ASTM standard 1527-05. The site review did identify Recognized Environmental Conditions (RECs) and/or areas of concern that warranted further investigation as follows:

1. An large approximately 1,000 AST located behind the seven (7) bay garage in the southern portion of Parcel 6.
2. A waste oil storage area located within the seven (7) bay garage in the southern portion of Parcel 6.
3. Areas of historic fill in Parcel 6 used to create level areas on the sloping native ground surface.
4. The storm water retention ponds located in the northwestern portion of Parcel 5.

5. The former houses and junk yard located in the western portion of Parcel 5 along Lower South Street, including several stockpiles of material that was generated by the previous owner.

Geophysical Survey

Tectonic also performed a geophysical survey of areas on the site where underground storage tanks may have been located as well as areas where septic fields or infiltration basins may have been located. The geophysical survey used those instruments best suited for locating these features as was selected by Tectonic's field crew and included the use of Ground Penetrating Radar (GPR) scanning and magnetic utility locators. Subsurface objects located were marked in the field and recorded on a site sketch map as shown in **Figure 2**. During the geophysical investigation, underground storm water drains, water lines and gas lines were located and marked on Parcels 5 and 6. In addition, four (4) unidentified underground metallic bodies were located near the truck scale on Parcel 6, as represented by the orange square symbols shown on **Figure 2**. One of the objects was located immediately northwest of the truck scale, while the other three underground objects were located northeast of the truck scale, see **Figure 2**.

2.5 PHYSICAL SETTING

2.5.1 Surrounding Property Use

The Property is situated in a presently industrial/commercial area. The Site is bordered to the north by Louisa Street; to the east by Route 9; to the south by Coleman Distributors and to the west by Lower South Street. The Site is accessed from entrances located along Lower South Street. The surrounding Properties are served with municipal water and sewer from the City of Peekskill.

2.5.2 Climate

The climate of southern New York contains four well-defined seasons marked by significant annual temperature variations. The moist coastal climate generally affects the eastern United States where polar and tropical air masses meet but temperatures are moderated by the Atlantic Ocean. Precipitation occurs throughout the year, but peaks in the summer and spring months when warm,

moist air from the Gulf of Mexico pushes north into the region. The City of Peekskill averages 51.13 inches of rainfall per year. May is the wettest month with an average of 4.84 inches of precipitation. Mean daily temperatures for Peekskill range from an average maximum in the 70s ℉ to an a verage minimum in the 20s ℉. Prevailing winds blow from the west-northwest.

2.5.3 Topography

The Property is situated at an elevation that ranges from approximately 30 to 80 feet above sea level. The land surface at the Property slopes down to the west/northwest towards Peekskill Bay which is part of the Hudson River (see Appendix 1).

2.5.4 Geology

Regional / Area Geology

The Property is located in the Paleozoic Upper Ordovician formation. The rocks are metamorphic and igneous in nature. Bedrock is anticipated to be shallow in the region with the exception of some isolated valley areas.

The Hudson River is the main regional hydrologic feature, flowing north to south west of the City of Peekskill, approximately 1,330 feet to the west of the Property. An unnamed tributary is located approximately 100 feet north of the Property and flows west to the Peekskill Bay and the Hudson River.

Site Specific Geologic Conditions

The Property is located in the Paleozoic Upper Ordovician formation. The bedrock at the site is mapped the NYS Geologic Survey as a hornblende norite. Bedrock is anticipated to be relatively shallow, with outcrops located north, east, west and south of the Property. Bedrock is anticipated to be approximately 0 to 15 feet below ground surface.

The overlying soils in the northern and eastern portions of the Property consist of Charlton-Chatfield Complex, rolling, very rocky. These well drained soils consist of loamy till derived mainly from granite, gneiss or schist. The soils in western portion of the Property primarily consist of Udorthents, smoothed. These

moderately well drained soils consist of fill material. Chatfield-Hollis-Rock outcrop complex may also be found in portions of the Property. These well drained soils consist of loamy till derived mainly from granite, gneiss or schist.

Groundwater levels are also unknown but are anticipated to be approximately 2 to greater than 10 feet below the existing ground surface across the site at an elevation approximately equal to the average mean sea level. The groundwater gradient in the area of the site is anticipated to flow west/northwest to Peekskill Bay.

2.5.5 Surface Water and Wells

The Property and the surrounding properties are on the City of Peekskill water supply. The closest surface water body near the site is the Peekskill Bay, located approximately 1,330 feet to the west/northwest of the Site.

3.0 PROJECT OBJECTIVE, SCOPE AND SAMPLING RATIONALE

3.1 OBJECTIVE

The Conceptual Site Model (CSM) is characterized by the subsurface conditions and specific RECs and their probable type of impacts to on-site subsurface media. The objective of this investigation is to gain a preliminary understanding of the nature of the subsurface conditions and these Recognized Environmental Conditions and how they may have impacted the Property.

Based on our initial investigation our conceptual site model for the subsurface conditions is as follows:

- A thin layer of native glacial soils overlie the native igneous and/or metamorphic rock.
- The bedrock surface is likely to be uneven but is anticipated to have an overall slope down to the west.
- The topographic benches observed on site were constructed using imported fill of unknown nature but is likely to include recycled concrete and aggregate. Fill thickness is likely to range from no fill to up to 20 feet of fill.

- Due to the topography and shallow bedrock, groundwater is unlikely to be present on the east side of the site and may not be present on the west side either.

The Site Investigation tasks will be completed so that physical and chemical data will be collected during the investigation as part of a larger, iterative process (if required), with the following immediate objectives:

- Determine if there is historic fill present on the site and if so, evaluate the historic fill to determine its nature.
- Determine whether the former junk yard operations at the site have impacted near surface soils.
- Determine if the AST located behind the seven (7) bay garage in the southern portion of Parcel 6 has impacted on-site soils and groundwater.
- Determine if the waste oil storage area located within the seven (7) bay garage in the southern portion of Parcel 6 has impacted on-site soils and groundwater.
- Determine if the sediment in storm water retention ponds located in the northwestern portion of Parcel 5 have impacted on-site soils and groundwater.
- Determine whether the former junk yard operations at the site have impacted near surface soils.
- Determine if the four (4) unidentified underground metallic objects located near the truck scale on Parcel 6 have impacted the on-site soils and groundwater.
- Determine if the off-site AOC, identified in the RAW study, which identified free phase hydrocarbons in the groundwater and acetone in the soil above NYSDEC RSCOs has impacted the soils and groundwater underlying the Property.

These objectives will be achieved by collection and analysis of soil samples and groundwater samples and comparison of the results to appropriate standards for soil and groundwater in New York State. The scope of work will focus on near surface and shallow soil and groundwater impacts. Based on the findings of this Site Investigation (SI), if warranted, the need for additional subsurface investigation will be assessed to further explore the nature and extent of impacts to the site.

3.2 ENVIRONMENTAL SITE INVESTIGATION (SI) APPROACH

Site data will be properly collected to determine if the site has been impacted, and will provide a basis for whether further investigation is warranted. The approach for data collection and analysis will follow the methods presented in the work plan and detailed in the Standard Operating Procedures (SOPs) in **Appendix D**. All technical work will be performed in general accordance with NYSDEC DER-10. The field work will be carried

out in accordance with the site specific Environmental Health and Safety Plan (eHASP) to be prepared separately. A copy of the eHASP is attached in **Appendix E**.

3.2.1 Soil Investigation

A soil investigation shall be conducted to determine whether the Site is impacted by historic fill, the former junk yard operations, and petroleum hydrocarbons from the on-site AST and waste processing operations and petroleum hydrocarbons from the off-site spill at the adjacent property.

Soil Boring Program

Tectonic's boring subcontractor will perform twenty-five (35) borings and ten (10) test pits at locations across the Property (see **Figure 3**). The proposed locations are based on the findings of the site reconnaissance, geophysical survey and the RAW completed for the adjacent property. Table 2 summarizes the proposed boring locations and boring depths.

TABLE 2
PROPOSED BORING LOCATIONS AND DEPTH

Boring Number	Approximate location	Proposed Depth (feet)
B-1	Inside the 7 bay garage in the southern portion of Parcel 6	15
B-2	Inside the 7 bay garage in the southern portion of Parcel 6	15
B-3	Inside the 7 bay garage in the southern portion of Parcel 6	15
B-4	Inside the 7 bay garage in the southern portion of Parcel 6	15
B-5	Inside the 7 bay garage in the southern portion of Parcel 6	15
B-6	Inside the 7 bay garage in the southern portion of Parcel 6	15
B-7	North of the 7 bay garage within the paved area.	15
B-8	North of the 7 bay garage within the paved area.	15
B-9	North of the 7 bay garage within the paved area.	15
B-10	North of the 7 bay garage within the paved area.	15
B-11	North of the 7 bay garage within the paved area.	15
B-12	North of the 7 bay garage within the paved area.	15
B-13	North of the 7 bay garage within the paved area.	15
B-14	North of the 7 bay garage within the paved area.	15

B-15	North of the 7 bay garage within the paved area.	15
B-16	Along the access road to the 7 bay garage.	15
B-17	Along the access road to the 7 bay garage.	15
B-18	Along the access road to the 7 bay garage.	15
B-19	Along the access road to the 7 bay garage.	15
B-20	Within the former building footprint, in the northeast portion of Parcel 6.	15
B-21	Within the former building footprint, in the northeast portion of Parcel 6.	15
B-22	Within the former building footprint, in the northeast portion of Parcel 6.	15
B-23	Within the former building footprint, in the northeast portion of Parcel 6.	15
B-24	Northern portion of Parcel 6.	15
B-25	Northern portion of Parcel 6.	15
B-26	Northern portion of Parcel 6.	15
B-27	Northern portion of Parcel 6.	15
B-28	Northern portion of Parcel 6.	15
B-29	Northern portion of Parcel 6.	15
B-30	Northern portion of Parcel 6.	15
B-31	Northern portion of Parcel 6.	15
B-32	Within the former building footprint, in the northeast portion of Parcel 6.	15
B-33	Within the former building footprint, in the northeast portion of Parcel 6.	15
B-34	Within the former building footprint, in the northwest portion of Parcel 6.	15
B-35	Within the former building footprint, in the northwest portion of Parcel 6.	15
TP-1	South of the 7 bay garage in the southern portion of Parcel 6.	NA
TP-2	South of the 7 bay garage in the southern portion of Parcel 6.	NA
TP-3	South of the 7 bay garage in the southern portion of Parcel 6.	NA
TP-4	In the stockpiled material in the southern portion of Parcel 5.	NA
TP-5	In the stockpiled material in the southern portion of Parcel 5.	NA
TP-6	In the stockpiled material in the southern portion of Parcel 5.	NA
TP-7	Within the former building footprint, in the southern portion of Parcel 5.	NA
TP-8	Within the former building footprint, in the southeastern portion of Parcel 5.	NA
TP-9	Within the former building footprint, in the southeastern portion of Parcel 5.	NA
TP-10	In the detention ponds in the northern portion of Parcel 5.	NA

TP-11	In the detention ponds in the northern portion of Parcel 5.	NA

Soils samples will be collected with a truck mounted Geoprobe rig. The Geoprobe will advance borings using a hydraulic percussion hammer to advance a four-foot Macrocore sampler. If refusal is encountered due to hard drilling such as rubble fill or boulders, the boring will be terminated and relocated if determined necessary. Tectonic's field inspector will perform visual inspection of the borings, log soil samples, obtain soil samples for analytical laboratory testing, and modify the subsurface investigation program as conditions warrant. Soils will be field screened for the presence of volatile organic compounds (VOCs) using a portable photo-ionization detector (PID). Visual and olfactory observations will be recorded on boring logs. Soil sampling and boring inspection shall be performed per Tectonic's SOPs in Appendix D.

In each of the borings, one soil sample will be collected from each boring at the zone that has the highest PID reading or visually that appears to be most contaminated or soil from immediately above the water table or the fill immediately above the native soils. If encountered, the water table will be determined during the borings based on the soil moisture in the samples.

The subsurface investigation will also include mobilizing a rubber tire backhoe to perform test pits. The backhoe will also be used to investigate the soil stockpiles on parcel 5 and aid in the collection of waste characterization samples from the stock piles.

Soil samples collected for the borings will be analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, TAL Metals by EPA Method 6010/7471, PCBs, pesticides and Total Petroleum Hydrocarbons (TPH) by EPA Method 8015. Soil samples collected for the test pit location will be analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, TAL Metals by EPA Method 6010/7471, TCLP Metals by EPA Method 1311/6010/7471, PCBs, pesticides, Total Petroleum

Hydrocarbons (TPH) by EPA Method 8015 and RCRA Characteristics (Ignitibility, Corrosivity, Reactivity). The analytical test results will be compared to the Soil Cleanup Objectives set forth in 6 NYCRR Part 375-6.8(b).

3.2.2. Groundwater Sampling Program

In order to determine whether the shallow groundwater on the Property has been impacted by the on-site activities or the off-site impacts, Tectonic will collect groundwater samples from temporary well points. The temporary well points will made by placing 1 inch pvc screen and riser into the boring. The temporary wellpoints will be abandoned in place when the site investigation has been completed. Ground water samples will be collected in accordance with SOPs in Appendix D. If encountered, groundwater measurements will be taken with a water level indicator, throughout the investigation to provide data that allows estimation of the groundwater gradient and flow direction at the Property. As indicated previously, when the wells are determined to be no longer needed, the wells will be closed and decommissioned using the NYSDEC procedures detailed in NYSDEC Commissioner's Policy CP-43: Groundwater Monitoring Well Decommissioning Policy, dated November 3, 2009.

All water sampling activities will be performed in accordance with current EPA analytical methodologies in SW-846. All water samples collected will be analyzed for volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, PCB/pesticides by EPA Method 8081/8082 and Target Analyte List (TAL) RCRA 8 metals list by EPA method 7470/6010.

4.0 SAMPLING AND ANALYTICAL METHODS REQUIREMENTS

The following sampling analytical methods requirements for Quality Assurance for soil and groundwater samples are summarized in the following tables:

Table 4-1 - Sampling and QA Summary
Soil Samples

Sample Matrix	Parameter	Sample Type (A), (B)	Number of Samples (A), (C)	Analytical Method Reference	Sample Preservation	Holding Time from Collection	Container (B)
Soil	VOCs	Field Sample, Trip Blank, Field Duplicate (FD) and MS/ MSD	46 samples 1 Trip Blanks, 1 FD and1 MS /MSD	EPA 8260	Cool to 4°C	10 days to analysis	1- 4oz. glass jar with Teflon lined cap and minimal head space in jar
Soil	SVOCs	Field Sample, Field Duplicate and MS/ MSD	46 samples, 1 FD and 1 MS / MSD	EPA 8270	Cool to 4°C	10 days to extraction; 40 days from extraction to analysis	1-4 oz glass jar w/Teflon lined cap
Soil	TAL Metals & Cyanide	Field Sample, Field Duplicate and MS/ DUP	46 samples, 1 FD and 1 MS / DUP	EPA 6010	Cool to 4°C	Mercury: 28 days Other Metals: 180 days	1-8 oz. Polyethylene/glass bottle and cap
Soil	PCBs/Pesticides	Field Sample, Field Duplicate and MS/ MSD	46 samples, 1 FD 1 MS / MSD	EPA 8081/8082	Cool to 4°C	10 days to extraction; 40 days from extraction to analysis	1-8oz wide mouth glass jar with Teflon lined septa
Soil	Total Recoverable Petroleum Hydrocarbon	Field Sample, Field Duplicate and MS/ MSD	46 samples, 1 FD 1 MS / MSD	EPA 8015B	Cool to 4°C	10 days to extraction; 40 days from extraction to analysis	1-8oz wide mouth glass jar with Teflon lined septa

(A) MS/MSD = Matrix spike/matrix spike duplicate samples; MS/DUP = Matrix spike/duplicate samples; and FD = Field Duplicate samples.

(B) Due to the low number of groundwater samples to be analyzed for Metals, SVOCs, and VOCs quality control samples (i.e., Field Dupe, MS/MSD) will not be submitted for Metals, SVOCs, and VOCs analysis of groundwater except for a trip blank for VOCs.

(C) MS/MSD and MS/DUP samples require triplicate volume for water samples.

Table 4-2 - Sampling and QA Summary
Groundwater Samples

Sample Matrix	Parameter	Sample Type (A), (B)	Number of Samples (A), (C)	Analytical Method Reference	Sample Preservation	Holding Time from Collection	Container (B)
Groundwater	VOCs	Field Sample, Field Duplicate, MS/MSD and Trip Blank	5 samples, 1 Trip Blank	NYSDEC ASP EPA Method 8260	Cool to 4°C; HCl to pH <2	10 days to analysis	3-40 mL VOA vials with Teflon-faced septa
Groundwater	SVOCs Base Neutrals	Field Sample, Field Duplicate, and MS/ MSD	5 samples	NYSDEC ASP EPA Method 8270	Cool to 4°C	5 days to extraction; 40 days from extraction to analysis	1 liter amber glass jar w/Teflon lined cap
Groundwater	TAL Metals & Cyanide	Field Sample, Field Duplicate and MS/ DUP	5 samples	NYSDEC ASP	Cool to 4°C; HNO_3 to pH <2	Mercury: 28 days Other Metals: 180 days	1-0.5 liter polyethylene bottle and cap
Groundwater	PCB	Field Sample, Field Duplicate and MS/ MSD	5 samples, 1 FD 1 MS / MSD	NYSDEC ASP EPA Method 8081	Cool to 4°C	7 days to extraction; 40 days from extraction to analysis	1 liter amber glass jar w/Teflon lined cap
Groundwater	Pesticides	Field Sample, Field Duplicate and MS/ MSD	5 samples, 1 FD 1 MS / MSD	NYSDEC ASP EPA Method 8082	Cool to 4°C	7 days to extraction; 40 days from extraction to analysis	1 liter amber glass jar w/Teflon lined cap

(A) MS/MSD = Matrix spike/matrix spike duplicate samples; MS/DUP = Matrix spike/duplicate samples; and FD = Field Duplicate samples.

(B) Due to the low number of groundwater samples to be analyzed for Metals, SVOCs, and VOCs quality control samples (i.e., Field Dupe, MS/MSD) will not be submitted for Metals, SVOCs, and VOCs analysis of groundwater except for a trip blank for VOCs.

(C) MS/MSD and MS/DUP samples require triplicate volume for water samples.

5.0 SITE INVESTIGATION REPORT

After completion of the proposed sampling, analysis, and data evaluation, a SI Report will be prepared that presents the findings and conclusions of the investigation. The SI Report will include the following:

5.1 Project Overview

The project overview will summarize the site history, findings of the previous investigations, identify the scope of work for the remedial investigation, and provide a narrative discussion of the methods of the remedial investigation and results. This will include discussions of work completed under the SI work plan, including the methods used for sample collection and laboratory analysis as well as any departures from the approved scope of work or methods used along with the rationale for such departures. The overview will also address potential petroleum contamination from the on-site USTs and metals contamination from the previous on-site operations. The overview will also discuss the hydrogeologic characteristics of the Property and surrounding area. It will also describe any revisions to the conceptual site model (CSM) based on the site investigation.

5.2 Data Summary

The data collected for each media will be summarized in tables and listed with the appropriate standards, criteria, and guidance that is pertinent to that type of media. Soil analytical test results will be compared to the unrestricted soil cleanup objectives set forth in NYSDEC 6 NYCCRR Part 375. Groundwater analytical test results will be compared to the water quality standards and guidance values set forth in NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.*

5.3 Conclusions / Recommendations

The results of the SI will be summarized, which will clearly indicate areas that have been found to be impacted by Recognized Environmental Conditions (RECs). The results of the impact analysis will be revised relative to the original site conceptual impact model. The CEIM will be revisited and modified to reflect the findings. The report will provide recommendations for any recommended Interim Remedial Measures (IRMs) and/or additional investigation measures to resolve the nature and extent of on-site environmental impacts.

5.4 Supporting Data and Information

To support the presentation of the SI information, the following items will be appended to the SI report:

- Site photographs
- Soil boring logs
- Water level measurements
- Boring and Test Pit location plan
- Laboratory analytical results

6.0 SELECTED REFERENCES

New York State Department of Environmental Conservation, 6 NYCRR Part 375: Environmental Remediation Programs.

New York State Department of Environmental Conservation, October 2010, *Commissioner's Policy CP-51: Soil Cleanup Guidance.*

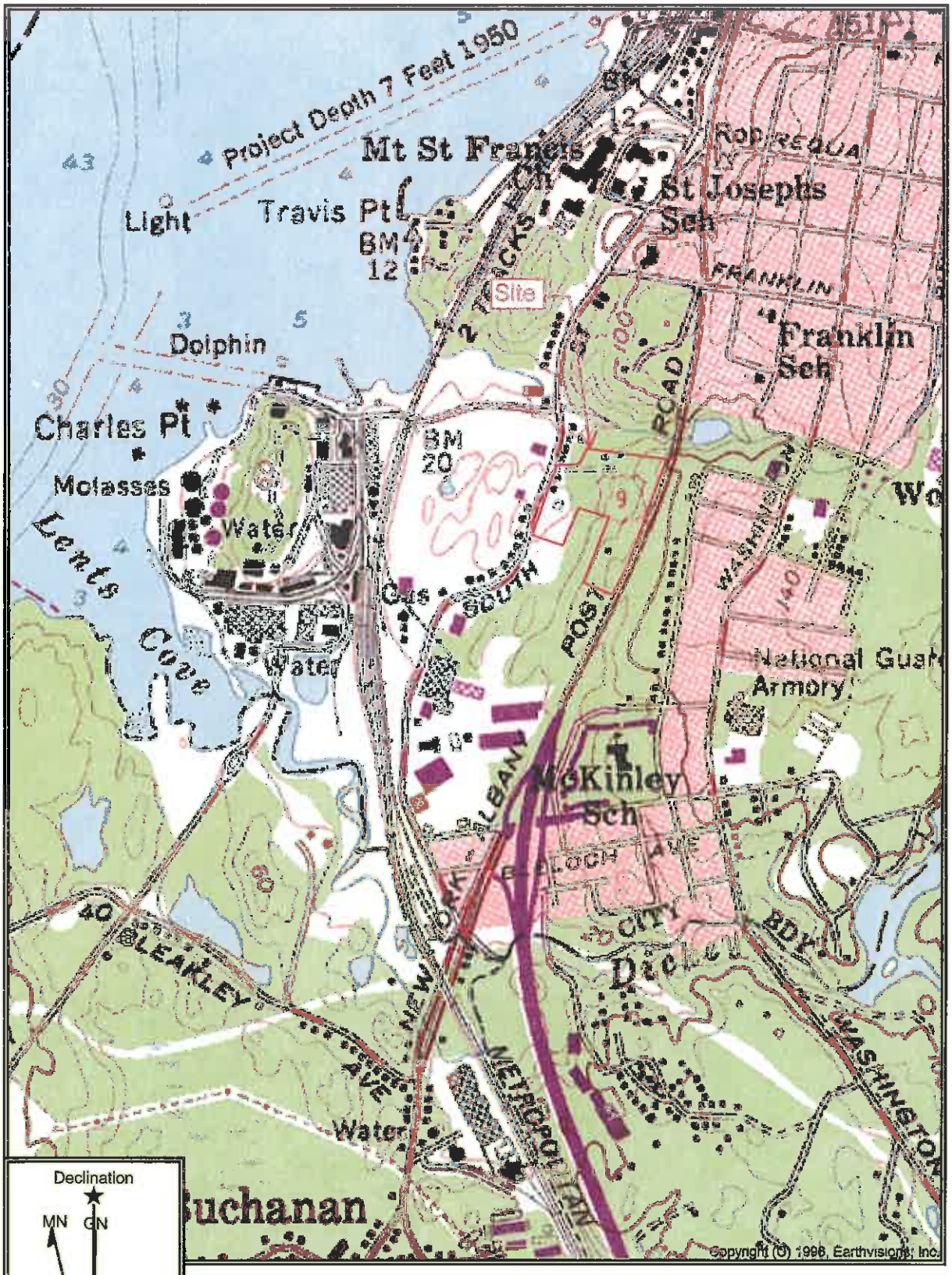
New York State Department of Environmental Conservation, May 2010, *DER-10 Technical Guidance for Site Investigation and Remediation.*

New York State Department of Environmental Conservation, June 1998, Division of Water *Technical and Operational Guidance Series (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATIONS.*

Hydro Environmental Solutions, Inc, November 2010. *Remedial Action Workplan (RAW) – Karta Property Parcel B and C, 1013 and 1017 South Street, Peekskill, New York.*

U.S. Geological Survey. 1970, revised 1995. Lower Hudson, New York 7.5-minute topographic quadrangle map.

New York State Department of Environmental Conservation, November 2009, *Commissioner's Policy CP-43: Groundwater Monitoring Well Decommissioning Policy.*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Light
Travis Pt
BM 12
Site
St Josephs Sch
Franklin Sch
Dolphin
Charles Pt
Molasses
Water
Lents Cove
BM 20
Water
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Buchanan
McKinley Sch
National Guard Armory
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MN 13.26°W
SCALE 1:12000
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YARDS
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HydroEnvironmental
SOLUTIONS, INC.

November 1, 2010

Mr. David DiGregorio
City of Peekskill
840 Main Street
Peekskill, New York 10566

RE: Remedial Action Work Plan and Cost Estimate
Karta Property Parcel B and Parcel C
1013 and 1017 South Street
Peekskill, New York

NYSDEC Spill No. 1007976

Dear Mr. DiGregorio:

As a result of the subsurface investigation (SI) recently completed in October 2010 at the above referenced site, HydroEnvironmental Solutions, Inc. (HES) has compiled the following Remedial Action Work Plan (RAW) and Cost Estimate. The purpose of this RAW is to outline costs and define protocol to complete the environmental cleanup of the subject property in accordance with all applicable New York State Department of Environmental Conservation (NYSDEC) Guidelines and Regulations.

Background

HES was retained by the City of Peekskill (The City) to complete a comprehensive SI to determine the environmental status of the former Karta Corporation transfer and recycling station located at 1013-1017 Lower South Street in Peekskill, New York (**Figure 1**). The SI was conducted on behalf of The City prior to the purchase of the subject property. In this regard, the SI included the following work completed in October 2010:

- A geophysical survey using ground penetrating radar (GPR) to search for buried underground objects of concern (i.e.: tanks, drums, etc.).
- Test pit excavation (seven test pits) of GPR located anomalies.
- Installation of thirty nine (39) test borings using a Geoprobe® drill rig.
- Installation of several temporary monitor wells wherever groundwater was encountered.

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914.276.2560 Fax 914.276.2664

- Collection of soil and groundwater samples (wherever feasible) and analysis of same for volatile organic compounds (VOCs), semi-VOCs (SVOCs), heavy metals (RCRA metals) and poly-chlorinated biphenyls (PCBs).
- Collection of surface water samples for laboratory analysis as outlined above.

Remedial Action Work Plan

As a direct result of the comprehensive SI, five areas of concern (AOCs) were determined and are shown on **Figure 2**. The environmental concerns at each of the AOCs are outlined on the table below:

Area of Concern	Description of Environmental Concerns
AOC-1: Located behind Building 3	Free-phase hydrocarbon observed on water table in TP-3; acetone detected in soil above NYSDEC RSCOs*.
AOC-2: Located in front of Building 3	Chromium detected in soil above NYSDEC RSCOs.
AOC-3: Located north of office building at driveway entrance to facility.	SVOCs, metals and acetone detected in soil above NYSDEC RSCOs.
AOC-4: Located west of office building along Lower South Street.	Acetone and metals detected in soil above NYSDEC RSCOs; standing water with free-phase hydrocarbon observed in zipper drain and manhole.
AOC-5: Located inside Building 6.	Standing water inside pit with sheen and floating free-phase hydrocarbon.

* RSCOs = Recommended Soil Cleanup Objectives

The following section of the RAW outlines the additional environmental work and cleanup that will be required to address each of the AOCs at the subject property in accordance with all NYSDEC requirements.

1. NYSDEC Remedial Action Work Plan Approval

Prior to initiating the cleanup at the subject site, the RAW will need to be submitted to the Region 3 Office of the NYSDEC to obtain written approval. The costs to complete this task are included on the attached Cost Estimate.

2. AOC-1: Behind Building 3

The SI revealed that the groundwater at this location is impacted by petroleum hydrocarbons and acetone. Free-phase hydrocarbon was observed floating on the groundwater in Test Pit TP-3 and acetone was detected above Recommended Soil Cleanup Objectives (RSCOs) in soil samples collected from the test borings drilled at

this location. Consequently, additional work will be required to mitigate petroleum hydrocarbon and VOC impacts to soil and groundwater in this area. In this regard, HES proposes to complete the following work at this location:

- Excavate, dewater and remove all fuel oil and acetone impacted soil. Collect post excavation end-point soil samples for laboratory analysis and backfill excavation with clean backfill. Install a post cleanup groundwater monitoring well and collect several rounds of confirmatory groundwater samples following the cleanup.

As outlined on the attached Cost Estimate, HES anticipates that this work will require three field days to complete including monitor well installation using a hollow stem auger drill rig and soil removal using an excavator. Anticipated dewatering of the excavation area to allow access to the impacted soil would be completed using a vacuum truck. The impacted soil would be disposed of at a NYSDEC licensed disposal facility. The cost to complete the additional environmental work and the required cleanup for this AOC is detailed on the attached Cost Estimate.

3. **AOC-2: In front of Building 3**

The SI revealed that the soil at this location is impacted by chromium. Chromium was detected above NYSDEC RSCOs in soil samples collected from test boring GB-29 drilled at this location (**Figure 2**). Consequently, additional work will be required to mitigate chromium impacts to the soil in this area. In this regard, HES proposes to complete the following work at this location:

- Delineate the extent of chromium impacts to soil both aerially and vertically using a Geoprobe® and a comprehensive soil sampling program. Excavate and remove all chromium impacted soil. Collect post excavation end-point soil samples for laboratory analysis for chromium and backfill the excavation with clean fill material.

As outlined on the attached Cost Estimate, HES anticipates that this work will require two field days to complete including test boring installation using an air rotary drill rig to drill through the concrete driveway and soil sampling using a Geoprobe®. After the extent of chromium impact is determined, an excavator and rock hammer would be used to access and remove all impacted soil. The impacted soil would be disposed of at a NYSDEC licensed disposal facility. The cost to complete the additional environmental work and the required cleanup for this AOC is detailed on the attached Cost Estimate.

4. AOC-3: North of Office Building in Driveway Entrance Area

The SI revealed that the soil at this location is impacted by heavy metals (barium, cadmium, chromium, mercury and lead), SVOCs and acetone. Metals, acetone and SVOCs were detected above NYSDEC RSCOs in soil samples collected from test borings GB-36 and GB-37 drilled at this location (**Figure 2**). Consequently, additional work will be required to mitigate environmental impacts to the soil in this area. In this regard, HES proposes to complete the following work at this location:

- Delineate the extent of impacts to soil both aerially and vertically using a Geoprobe® and a comprehensive soil sampling program. Excavate and remove all impacted soil. Collect post excavation end-point soil samples for laboratory analysis for RCRA Metals, VOCs and SVOCs and backfill excavation with clean fill material.

As outlined on the attached Cost Estimate, HES anticipates that this work will require five field days to complete including test boring installation using an air rotary drill rig to drill through the concrete driveway and soil sampling using a Geoprobe®. After the extent of environmental impact is determined, an excavator and rock hammer would be used to access and remove all impacted soil. The impacted soil would be disposed of at a NYSDEC licensed disposal facility. The cost to complete the additional environmental work and the required cleanup for this AOC is detailed on the attached Cost Estimate.

5. AOC-4: In Front of Office Building along Lower South Street

The SI revealed that the soil at this location is impacted by heavy metals (chromium and arsenic) and acetone. Metals and acetone were detected above NYSDEC RSCOs in soil samples collected from test pits and a test boring (GB-31) drilled in this area (**Figure 2**). Additionally, HES observed free-phase hydrocarbon floating on the standing water in the zipper drain at this location. A surface water sample collected from this drain revealed VOC and SVOC impacts to the standing water in the drain. Consequently, additional environmental work will be required to mitigate environmental impacts to the soil and the drain. In this regard, HES proposes to complete the following work at this location:

- Delineate the extent of impacts to soil both aerially and vertically using a Geoprobe® and a comprehensive soil sampling program. Excavate and remove all impacted soil. Collect post excavation end-point soil samples for laboratory analysis for RCRA Metals and VOCs and backfill excavation with clean fill material. The drain system will be cleaned and power washed. All standing and wash water along with free-phase hydrocarbon will be collected using a vacuum truck for proper off-site disposal.

As outlined on the attached Cost Estimate, HES anticipates that this work will require four field days to complete including test boring installation using an air rotary drill rig to drill through the concrete parking area, soil sampling using a Geoprobe, and cleaning the drain system. After the extent of environmental impact is determined, an excavator and rock hammer would be used to access and remove all impacted soil. The impacted soil would be disposed of at a NYSDEC licensed disposal facility. The cost to complete the additional environmental work and the required cleanup for this AOC is detailed on the attached Cost Estimate.

6. AOC-5: Inside Building 6

The SI revealed that the standing liquid in the pit located inside Building 6 is impacted with petroleum hydrocarbons. Consequently, additional work will be required to mitigate environmental impacts to the pit. In this regard, HES proposes to complete the following work at this location:

- The pit will be cleaned and power washed. All standing and wash water along with free-phase hydrocarbon will be collected using a vacuum truck for proper off-site disposal. Prior to cleanup, liquid samples should be collected from the pit for laboratory analysis to determine disposal requirements of all removed liquids.

As outlined on the attached Cost Estimate, HES anticipates that this work will require one-half field day to complete including pit cleaning and off-site water disposal. The cost to complete the additional environmental work and the required cleanup for this AOC is detailed on the attached Cost Estimate.

7. Remedial Action Report

Following the completion of the RAW, a comprehensive Remedial Action Report (RAR) will need to be compiled and submitted to the NYSDEC for review and approval. The RAR will provide a detailed accounting of the site remediation as well as summarize the results of the cleanup. Following NYSDEC approval, the open spill number for the site will be formally closed and the site will be considered clean provided end-point sampling results confirm that the site is free of environmental concerns.

The costs to complete the RAR are outlined on the attached Cost Estimate.

Limitations

The above outlined RAW and attached comprehensive Cost Estimate is based on the findings of the SI and our technical expertise and experience as environmental consultants. HES believes that the RAW and Cost Estimate provide a practical and technically sound approach to the cleanup of the subject site. Additionally, HES believes that the costs listed in the Cost Estimate are representative of what needs to be completed for the site cleanup. All soil disposal costs represent non-hazardous disposal costs. However, it should be noted that the exact extent of impacts to soil and groundwater at the AOCs has not been fully delineated to date. Thus, the costs for the proposed RAW may be higher if environmental impacts are greater than anticipated based on the present data set. Conversely, the costs for the cleanup could also be lower if the extent of environmental impacts is less than anticipated.

If you have any questions regarding the RAW, or the attached Cost Estimate please contact me at (914) 276 – 2560. We would be pleased to meet with The City to answer questions on the RAW, the associated Cost Estimate, or our proposed remedial approach.

Very truly yours,
HydroEnvironmental Solutions, Inc.

Timothy Bishop
Environmental Scientist/Project Manager

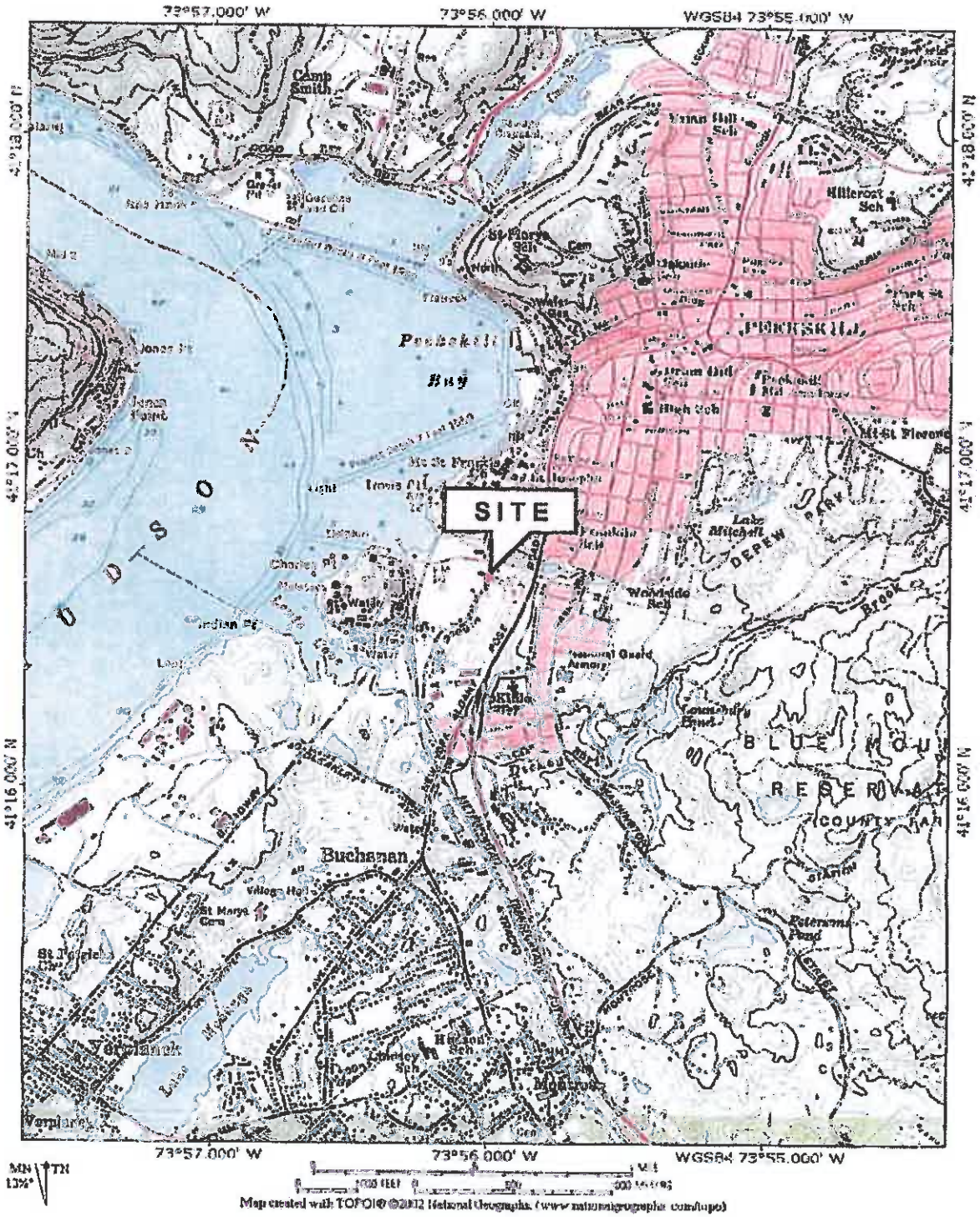
William A. Canavan, CPG, PG
President

Enclosures

cc: File

FIGURE 1
SITE LOCATION MAP

1013-1017 Lower South Street
Peekskill, New York



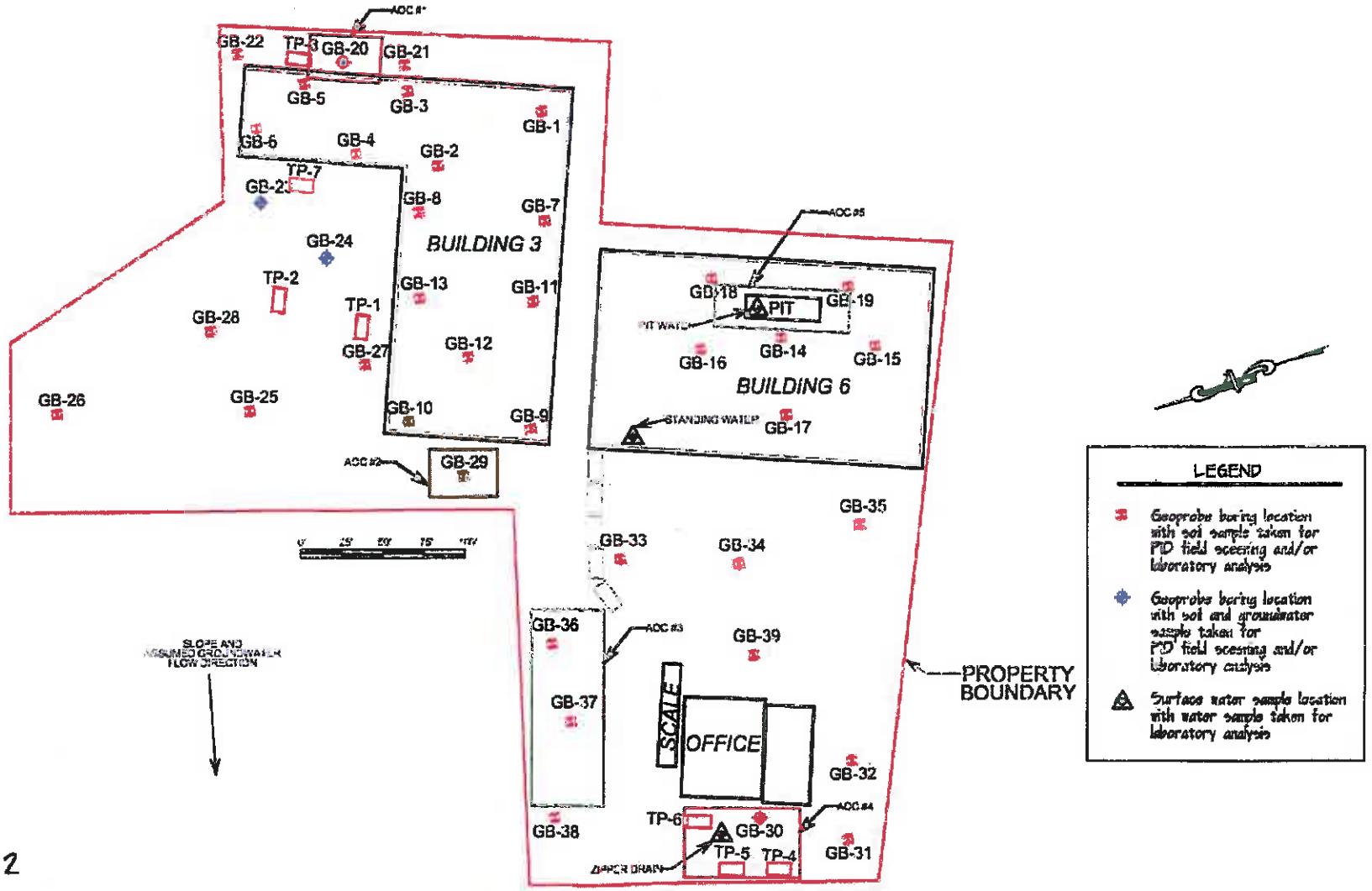


FIGURE 2

KARTA CORPORATION 1013-1017 LOWER SOUTH STEET PEEKSKILL, NEW YORK	GENERALIZED SITE PLAN SHOWING AREAS OF CONCERN	OCTOBER 2010 SUBSURFACE INVESTIGATION	HydroEnvironmental SOLUTIONS, INC.

APPENDIX II

New York State Department of Environmental Conservation
Division of Materials Management, Region 3
21 South Putt Corners Road, New Paltz, New York 12561-1620
Phone: (845) 256-3139 **Fax:** (845) 255-3414
Website: www.dec.ny.gov **E-mail:**

Joe Martens
Commissioner

June 21, 2011

James Upright
Tectonic Engineering
70 Pleasant Hill Road, PO Box 37
Mountainville, NY 10953

RE: R3 FOIL #R3-11-0449, 2 parcels in Peekskill, Westchester Co., 1005 & 1009 Lower South Street

Dear James Upright:

This is in response to your FOIL request we received June 21, 2011.

☒ After a diligent search, no records could be located that are responsive to your request.

☐ Region 3 Solid and Hazardous Materials records are available for review and/or copying. Please contact Brenda Griffin at (845) 256-3052 to make arrangements to obtain access to the records. Please be advised that the file(s) may or may not contain the specific documents you have requested.

☐ Enclosed are copies of the records you requested.

☐ You will receive a separate bill from DEC for these copies.

☐ The file was e-mailed to you at your email address of _____.

Please note there are approximately _____ of records responsive to this request. Please make payment authorization directly with our copying contractor, PDQ Business Centers, at (845) 255-5500 if you wish to have all of the records copied without first reviewing the records. Once you have made the authorization, the copying contractor will pick up the originals, copy and send to you as you requested

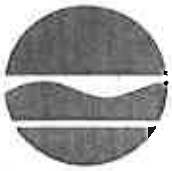
Sincerely,

Suzan Innes

Suzan Innes
Region 3 Materials Management

ecc: Records Access Office
R. Earl
M. Knipfing

New York State Department of Environmental Conservation
Records Access Office, Region 3
21 South Putt Corners Road, New Paltz, New York 12561-1620
(845) 256-3052 fax (845) 255-3042
Website: www.dec.ny.gov
r3foil@gw.dec.state.ny.us



Joe Martens
Commissioner

September 27, 2011

JAMES UPRIGHT
TECTONIC ENGINEERING
70 PLEASANT HILL ROAD
PO BOX 37
MOUNTAINVILLE NY 10953

RE: FOIL R3-11-0449
L&L SCRAP METAL

Dear Mr. Upright:

Access was excepted to certain Spill Prevention and Response Program records or portions thereof for the reason(s) noted below (all citations paraphrase Public Officers Law, Article 6):

(§87.2a) are specifically exempted from disclosure by State or Federal statute (1 documents)

(§87.2a) are specifically exempted from disclosure by State or Federal statute and
(§87.2g) are inter-agency or intra-agency communications (8 document)

(§87.2g) are inter-agency or intra-agency communications (1 document)

(§87.2g) are inter-agency or intra-agency communications and
(§87.2e) are compiled for law enforcement purposes (1 document)

If you wish to appeal this determination, you may write within 30 days of denial to:

Freedom of Information Law Appeals Officer
Office of General Counsel (OGS)
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-1500

Region 3 Records Access Office

IRA D. CONKLIN III
PRESIDENT

ESTABLISHED 1939

JOHN C. SCANDURRA
VICE PRESIDENT

COPY

IRA D. CONKLIN & SONS, INC.

94 STEWART AVENUE • P.O. BOX 7457 • NEWBURGH, N.Y. 12550
(845) 561-1512 • FAX (845) 561-1798 • WWW.IRACONKLIN.COM

Fwd: Cesare Manfred.
John O'Mara

facsimile transmittal

Spill # 00-10387

To:	Mr. John O'Dee	Fax:	914-332-4670
From:	Jackie Patt	Date:	January 18, 2001
Re:	L&L Scrap – baseline investigation	Pages:	30
CC:			

☐ Urgent X For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Notes:

As per your request, the following is the initial soil sampling investigation at L&L Scrap in Peekskill. The customer has asked us for a quote for soil disposal and sampling, I hope to get that out this week. I'll let you know when we will be there doing further work. If you have any questions or comments give me a call- ext 217.

Thanks,

Jackie Patt

IRA D. CONKLIN III
PRESIDENT

ESTABLISHED 1939

JOHN C. SCANDURRA
VICE PRESIDENT

IRA D. CONKLIN & SONS, INC.

94 STEWART AVENUE • P.O. BOX 7457 • NEWBURGH, N.Y. 12550
TELEPHONE (914) 561-1512 • FAX (914) 561-1798

January 4, 2001

L & L Scrap Metals
Attn: Mr. Rich Locaparra
1009 Lower South Street
Peekskill. New York 10566

RE: Sampling Report
L&L Scrap Metals
1009 Lower South Street
Peekskill, NY 10566
NYSDEC Spill # 00-10387

Dear Mr. Locaparra:

Ira D. Conklin and Sons, Inc. (IDC) is pleased to provide you with this report which summarizes the soil sampling which took place at L&L Scrap Metals, located in Peekskill, New York (subject property). Soil sampling was performed to establish areas of environmental concern on limited areas of the subject property. Seven (7) soil borings were extended in and around the known spill area on the subject property to provide an initial field of the presence or absence of petroleum contaminated soil on the subject property. IDC personnel performed the subsurface investigation on November 30, 2000. The NYSDEC Spill Hotline was notified and Spill # 00-10387 has been assigned to the site.

OBJECTIVES

The expressed objectives of these services are the following:

- Coordinate and supervise the extension of seven (7) soil borings in and around the perimeter of the spill area.
- Examine and field screen on-site subsurface soils for obvious indications of petroleum contamination and record relevant field observations.
- Collect soil samples and/or groundwater samples.
- Provide information on the presence or absence of petroleum contamination in the subsurface of the property.

FIELD OBSERVATIONS (Boring location can be found in Appendix A – Figure 2)

Boring -1
SB-1 was extended to a depth of 2 feet below grade. Soil materials consisted of dark brown/ black fill. PID readings of 130 ppm and petroleum odors were detected. Groundwater was not encountered. Refusal was met at 2 feet.

Boring -2
SB -2 was extended to a depth of 2.5 feet below grade. PID readings were not detected. Groundwater was not encountered. Soil materials did not indicate the presence of petroleum. Refusal was met at 2.5 feet.

Boring -3
SB -3 was extended to a depth of 3 feet below grade. Soil materials consisted of dark brown/ black fill. PID readings of 1-3 ppm were detected. Groundwater was not encountered. Refusal was met at 3 feet.

Boring -4
Boring -4 was extended to a depth of 3.5 feet. Soil materials consisted of dark brown/ black fill. PID readings of 30-160 ppm and petroleum odors were detected. Groundwater was not encountered. Refusal was met at 3.5 feet.

Boring -5
SB-5 was extended to a depth of 3 feet. Soil materials consisted of dark brown/ black fill. PID readings of 10-17 ppm and petroleum odors were detected. Groundwater was not encountered. Refusal was met at 3 feet.

Boring -6
SB-6 was extended to a depth of 3 feet. Soil materials consisted of dark brown/ black fill. PID readings of 17-40 ppm and petroleum odors were detected. Groundwater was not encountered. Refusal was met at 3 feet.

Boring-7
SB-7 was extended to a depth of 3.5 feet. Soil materials consisted of dark brown/ black fill. PID readings of 10-28 ppm and petroleum odors were detected. Groundwater was not encountered. Refusal was met at 3.5 feet.

SOIL SAMPLING

Composite soil samples were collected from each boring, as well as, a grab sample from the spill area, were submitted to the laboratory for analysis of VOCs using EPA Method 8021, Semi-VOCs using EPA Method 8270, RCRA Metals, and PCB's.

LABORATORY ANALYSIS

Spill Area

Fifteen (15) Volatile Organic Compounds (VOCs), and eight (8) Semi- Volatile Organic compounds (SVOCs) were detected in the sample from the spill area PCB's were detected but do not exceed NYSDEC Regulatory Levels. RCRA metals were detected however, only lead exceeds NYSDEC Regulatory Levels.

The chart below details the NYSDEC STARS Memo compounds, a full list of the compounds detected can be found in the analytical report located in Appendix B.

Table 1 – Laboratory Analysis

Site: L&L Scrap

Location: Spill Area

Compound	Dilution Factor	Guidance Value (ppb)	Concentration (ppb)	Restricted Use
Analysis: 8021 – Totals				
Benzene	50	14	2,300*	115 60 4800
Ethylbenzene	50	100	53,000*	2650 1900 41,000
Toluene	50	100	86,000*	4300 100,000
o-Xylene	50	100	110,000*	5500 100,000
P & m Xylene	50	100	180,000*	9000
Isopropylbenzene	50	100	9,500*	475
n-Propylbenzene	50	100	26,000*	1300 100,000
p-Isopropyltoluene	50	100	3,500*	175
1,2,4-Trimethylbenzene	50	100	140,000*	7000 52,000
1,3,5-Trimethylbenzene	50	100	67,000*	3350 52,000
n-Butylbenzene	50	100	23,000*	1150
Sec-Butylbenzene	50	100	4,500*	225 100,000
Tert-Butylbenzene	50	100	16,000*	800 100,000
Naphthalene	50	200	35,000*	1750 100,000
Methyl-tert-butyl-ether	50	200	2,900*	145 100,000
Analysis: 8270 – Totals				
Fluoranthene	3300	1000	2,200*	110 100,000
Naphthalene	3300	200	1,700*	85 100,000
Phenanthrene	3300	1000	2,500*	125 100,000
Analysis: Total RCRA Metals				
Lead	.50	100	1,360*	ppm 400

Note: ND = nondetect

* = Concentration in excess of NYSDEC Guidance Values

Soil Boring 1

Eleven (11) VOCs, one (1) SVOC were detected in the sample from soil boring 1. PCB's were detected but do not exceed NYSDEC Regulatory Levels. RCRA metals were detected however, only lead exceeds NYSDEC Regulatory Levels.

The chart below details the NYSDEC STARS Memo compounds, a full list of the compounds detected can be found in the analytical report located in Appendix B.

Table 2 – Laboratory Analysis

Site: L&L Scrap

Location: Soil Boring 1

Compound	Dilution Factor	Guidance Value (ppb)	Concentration (ppb)	
Analysis: 8021 – Totals				
Benzene	50	14	1,000*	50
Ethylbenzene	50	100	160*	8
Toluene	50	100	4,000*	200
o-Xylene	50	100	3,800*	190
P & m Xylene	50	100	5,200*	260
Isopropylbenzene	50	100	ND	
n-Propylbenzene	50	100	ND	
p-Isopropyltoluene	50	100	ND	
1,2,4-Trimethylbenzene	50	100	1,300*	65
1,3,5-Trimethylbenzene	50	100	990*	49.5
n-Butylbenzene	50	100	110	
Sec-Butylbenzene	50	100	ND	
Tert-Butylbenzene	50	100	ND	
Naphthalene	50	200	220*	11
Methyl-tert-butyl-ether	50	200	1,300*	65
Analysis: RCRA Metals				
Lead	.50	100	837*	

Note: ND = nondetect

* = Concentration in excess of NYSDEC Guidance Values

Soil Boring 2

No (0) VOCs, and fourteen (14) SVOCs were detected in the sample from soil boring 2. PCB's were detected but do not exceed NYSDEC Regulatory Levels. RCRA metals were detected however; none exceed NYSDEC Regulatory Levels.

The chart below details the NYSDEC STARS Memo compounds, a full list of the compounds detected can be found in the analytical report located in Appendix B.

Table 3 – Laboratory Analysis

Site: L&L Scrap

Location: Soil Boring 2

Compound	Dilution Factor	Guidance Value (ppb)	Concentration (ppb)		
Analysis: 8021 – Totals					
Benzene	50	14	ND		
Ethylbenzene	50	100	ND		
Toluene	50	100	ND		
o-Xylene	50	100	ND		
P & m Xylene	50	100	ND		
Isopropylbenzene	50	100	ND		
n-Propylbenzene	50	100	ND		
p-Isopropyltoluene	50	100	ND		
1,2,4-Trimethylbenzene	50	100	ND		
1,3,5-Trimethylbenzene	50	100	ND		
n-Butylbenzene	50	100	ND		
Sec-Butylbenzene	50	100	ND		
Tert-Butylbenzene	50	100	ND		
Naphthalene	50	200	ND		
Methyl-tert-butyl-ether	50	200	ND		
Analysis: 8270 – Totals					
Fluoranthene	330	1,000	3,500*	175	100,000
Naphthalene	330	200	1,700*	85	100,000
Anthracene	330	1,000	1,300*	65	100,000
Phenanthrene	330	1,000	3,000*	150	100,000
Pyrene	330	1,000	2,600*	130	100,000
Acenaphthene	330	400	670*	335	100,000
Fluorene	330	1,000	910	45.5	100,000
Chyrsene	330	.04[4]	2,800*	140	3,900
Benzo(k)fluoranthene	330	.04[4]	3,700*	185	3,900
Benzo(b)fluoranthene	330	.04[4]	2,400*	120	1,000
Benzo(a)pyrene	330	.04[4]	2,700*	135	1,000
Benzo(a)anthracene	330	.04[4]	3,500*	175	1,000

Note: ND = nondetect

* = Concentration in excess of NYSDEC Guidance Values

Soil Boring 3

No Volatile and Semi- Volatile Organic compounds were detected in the sample from the soil boring. PCB's were detected but do not exceed NYSDEC Regulatory Levels. RCRA metals were detected however; none exceed NYSDEC Regulatory Levels.

Soil Boring 4

Sixteen (16) VOCs and, five (5) SVOCs were detected in the sample from soil boring 4. PCB's were detected but do not exceed NYSDEC Regulatory Levels. RCRA metals were detected, however, only lead and chromium exceed NYSDEC Regulatory Levels.

The chart below details the NYSDEC STARS Memo compounds, a full list of the compounds detected can be found in the analytical report located in Appendix B.

Table 5– Laboratory Analysis

Site: L&L Scrap

Location: Soil Boring 4

Compound	Dilution Factor	Guidance Value (ppb)	Concentration (ppb)	
Analysis: 8021 – Totals				
Benzene	50	14	45*	2.25
Ethylbenzene	50	100	1,600*	80
Toluene	50	100	3,400*	170
o-Xylene	50	100	5,000*	250
P & m Xylene	50	100	8,200*	410
Isopropylbenzene	50	100	300*	15
n-Propylbenzene	50	100	780*	20
p-Isopropyltoluene	50	100	72	
1,2,4-Trimethylbenzene	50	100	6,400*	320
1,3,5-Trimethylbenzene	50	100	2,400*	120
n-Butylbenzene	50	100	500*	25
Sec-Butylbenzene	50	100	92	
Tert-Butylbenzene	50	100	720*	36
Naphthalene	50	200	1,500	
Methyl-tert-butyl-ether	50	200	41	
Analysis: 8270 – Totals				
Fluoranthene	330	1,000	3,400*	170
Naphthalene	330	200	3,700*	185
Phenanthrene	330	1,000	4,500*	225
Pyrene	330	1,000	3,300*	165
Analysis: RCRA Metals				
Lead	.50	100	578*	400
Chromium	.50	100	124*	110

Note: ND = nondetect

* = Concentration in excess of NYSDEC Guidance Values

Soil Boring 5

Ten (10) VOCs and, no (0) SVOCs were detected in the sample from soil boring 5. PCB's were detected but do not exceed NYSDEC Regulatory Levels. RCRA metals were detected; however, none exceed NYSDEC Regulatory Levels.

The chart below details the NYSDEC STARS Memo compounds, a full list of the compounds detected can be found in the analytical report located in Appendix B.

Table 6– Laboratory Analysis

Site: L&L Scrap

Location: Soil Boring 5

Compound	Dilution Factor	Guidance Value	Concentration
Analysis: 8021 – Totals		(ppb)	(ppb)
Benzene	50	14	ND
Ethylbenzene	50	100	13
Toluene	50	100	8
o-Xylene	50	100	41
P & m Xylene	50	100	66
Isopropylbenzene	50	100	ND
n-Propylbenzene	50	100	18
p-Isopropyltoluene	50	100	ND
1,2,4-Trimethylbenzene	50	100	170
1,3,5-Trimethylbenzene	50	100	47
n-Butylbenzene	50	100	13
Sec-Butylbenzene	50	100	ND
Tert-Butylbenzene	50	100	19
Naphthalene	50	200	35
Methyl-tert-butyl-ether	50	200	ND

Note: ND = nondetect

* = Concentration in excess of NYSDEC Guidance Values

Soil Boring 6

Fourteen (14) VOCs and, eleven (11) SVOCs were detected in the sample from soil boring 6. PCB's were detected but do not exceed NYSDEC Regulatory Levels. RCRA metals were detected; however, none exceed NYSDEC Regulatory Levels.

The chart below details the NYSDEC STARS Memo compounds, a full list of the compounds detected can be found in the analytical report located in Appendix B.

Table 7– Laboratory Analysis

Site: L&L Scrap

Location: Soil Boring 6

Compound	Dilution Factor	Guidance Value (ppb)	Concentration (ppb)		
Analysis: 8021 – Totals					
Benzene	50	14	28*	1.4	
Ethylbenzene	50	100	330*	16.5	
Toluene	50	100	92		
o-Xylene	50	100	740*	37	
P & m Xylene	50	100	750*	37.5	
Isopropylbenzene	50	100	53		
n-Propylbenzene	50	100	150*	7.5	
p-Isopropyltoluene	50	100	28		
1,2,4-Trimethylbenzene	50	100	1,800*	90	
1,3,5-Trimethylbenzene	50	100	820*	41	
n-Butylbenzene	50	100	150*	7.5	
Sec-Butylbenzene	50	100	23		
Tert-Butylbenzene	50	100	210*	10.5	
Naphthalene	50	200	350*	17.5	
Methyl-tert-butyl-ether	50	200	24		
Analysis: 8270 – Totals					
Anthracene	330	1,000	3,700*	185	100,000
Fluoranthene	330	1,000	7,800*	390	100,000
Benzo(a)anthracene	330	0.4[3]	9,400*	470	1,000
Benzo(a)pyrene	330	0.4[4]	5,000*	250	1,000
Benzo(b)fluoranthene	330	0.4[4]	3,700*	185	1,000
Benzo(k)fluoranthene	330	0.4[4]	4,700*	235	3,900
Chyrsene	330	0.4[4]	9,300*	465	3900
Phenanthrene	330	1,000	18,000*	900	100,000
Pyrene	330	1,000	5,300*	265	100,000
Analysis: RCRA Metals					
Lead	.50	100	559*		400

Note: ND = nondetect

* = Concentration in excess of NYSDEC Guidance Values

Soil Boring 7

Seven (7) VOCs and, one (1) eleven (11) SVOCs were detected in the sample from soil boring 7. PCB's were detected but do not exceed NYSDEC Regulatory Levels. RCRA metals were detected; however, none exceed NYSDEC Regulatory Levels.

The chart below details the NYSDEC STARS Memo compounds, a full list of the compounds detected can be found in the analytical report located in Appendix B.

Table 8 - Laboratory Analysis

Site: L&L Scrap

Location: Soil Boring 6

Compound	Dilution Factor	Guidance Value (ppb)	Concentration (ppb)	
Analysis: 8021 – Totals				
Benzene	50	14	28*	1.4
Ethylbenzene	50	100	330*	16.5
Toluene	50	100	92	
o-Xylene	50	100	740*	37
P & m Xylene	50	100	750*	37.5
Isopropylbenzene	50	100	53	
n-Propylbenzene	50	100	150*	7.5
p-Isopropyltoluene	50	100	28	
1,2,4-Trimethylbenzene	50	100	1,800*	90
1,3,5-Trimethylbenzene	50	100	820*	41
n-Butylbenzene	50	100	150*	7.5
Sec-Butylbenzene	50	100	23	
Tert-Butylbenzene	50	100	210*	10.5
Naphthalene	50	200	350*	17.5
Methyl-tert-butyl-ether	50	200	24	
Analysis: 8270 – Totals				
Anthracene	330	1,000	3,700*	185
Fluoranthene	330	1,000	7,800*	340
Benzo(a)anthracene	330	04[4]	9,400*	470
Benzo(a)pyrene	330	04[4]	5,000*	250
Benzo(b)fluoranthene	330	04[4]	3,700*	185
Benzo(k)fluoranthene	330	04[4]	4,700*	235
Chyrsene	330	04[4]	9,300*	465
Phenanthrene	330	1,000	18,000*	900
Pyrene	330	1,000	5,300*	265
Analysis: RCRA Metals				
Lead	.50	100	559*	

Note: ND = nondetect

* = Concentration in excess of NYSDEC Guidance Values

CONCLUSIONS

Based on the services provided and fieldwork performed by this office, and the analytical results of the samples forwarded to the laboratory, the following conclusions are presented:

1. Field observations and laboratory analysis results confirm that the area of investigation on the said property has been impacted by petroleum hydrocarbon contamination.

2. Contamination in excess of NYSDEC Soil Quality Guidance Values has been confirmed through laboratory analysis in soil borings 1, 2, 4, 5, 6 and 7 on the subject property.

3. Contamination in excess of NYSDEC Soil Quality Guidance Values has been confirmed through laboratory analysis from the grab soil sample obtained from the spill area on the subject property.

4. Bedrock was uniform throughout the investigated area between 3 and 4 feet below grade.

5. Groundwater was not encountered during this investigation.

Thank you for your attention. If you have any questions, please do not hesitate to call us at (914) 561-1512.

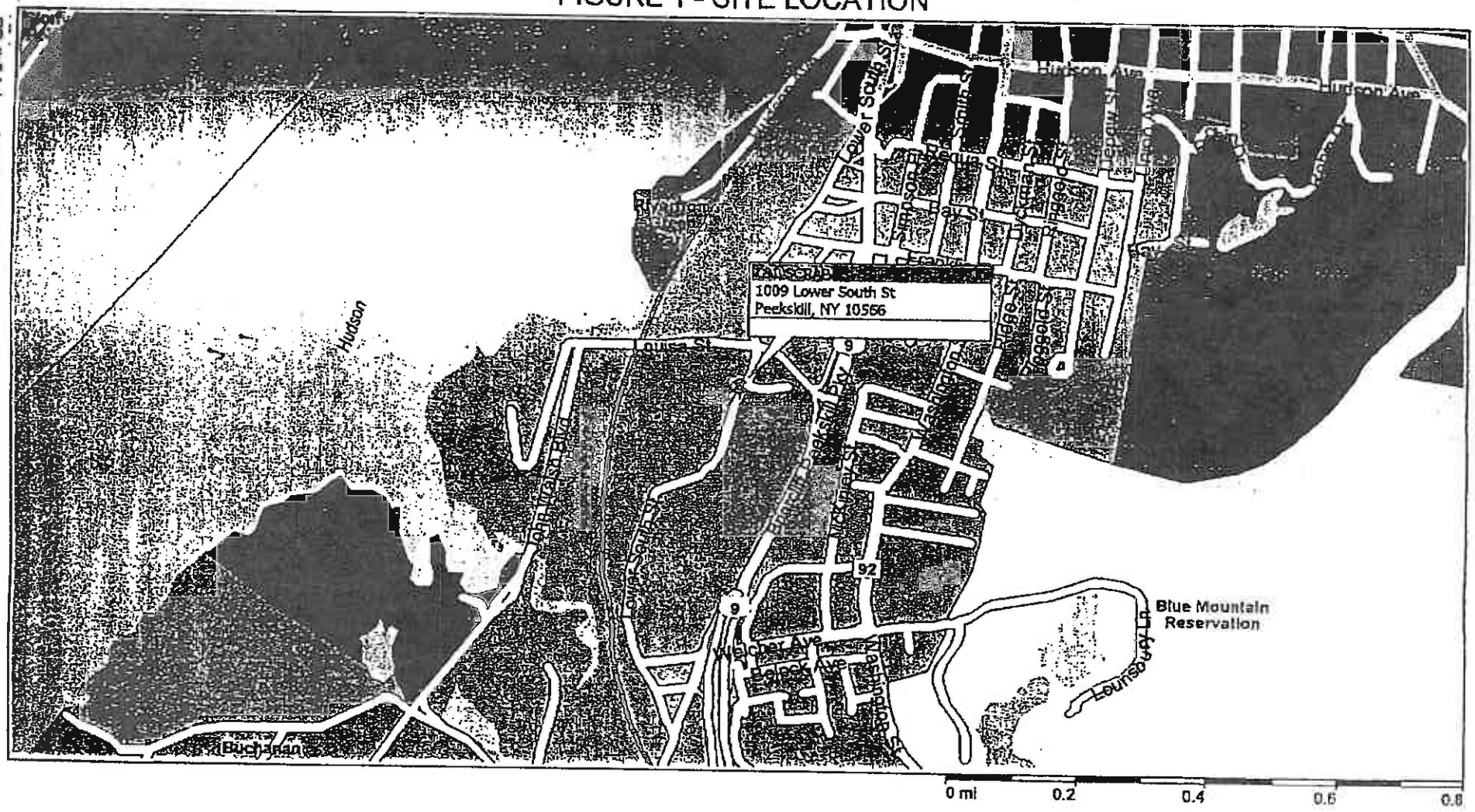
Sincerely,
Ira D. Conklin & Sons, Inc.

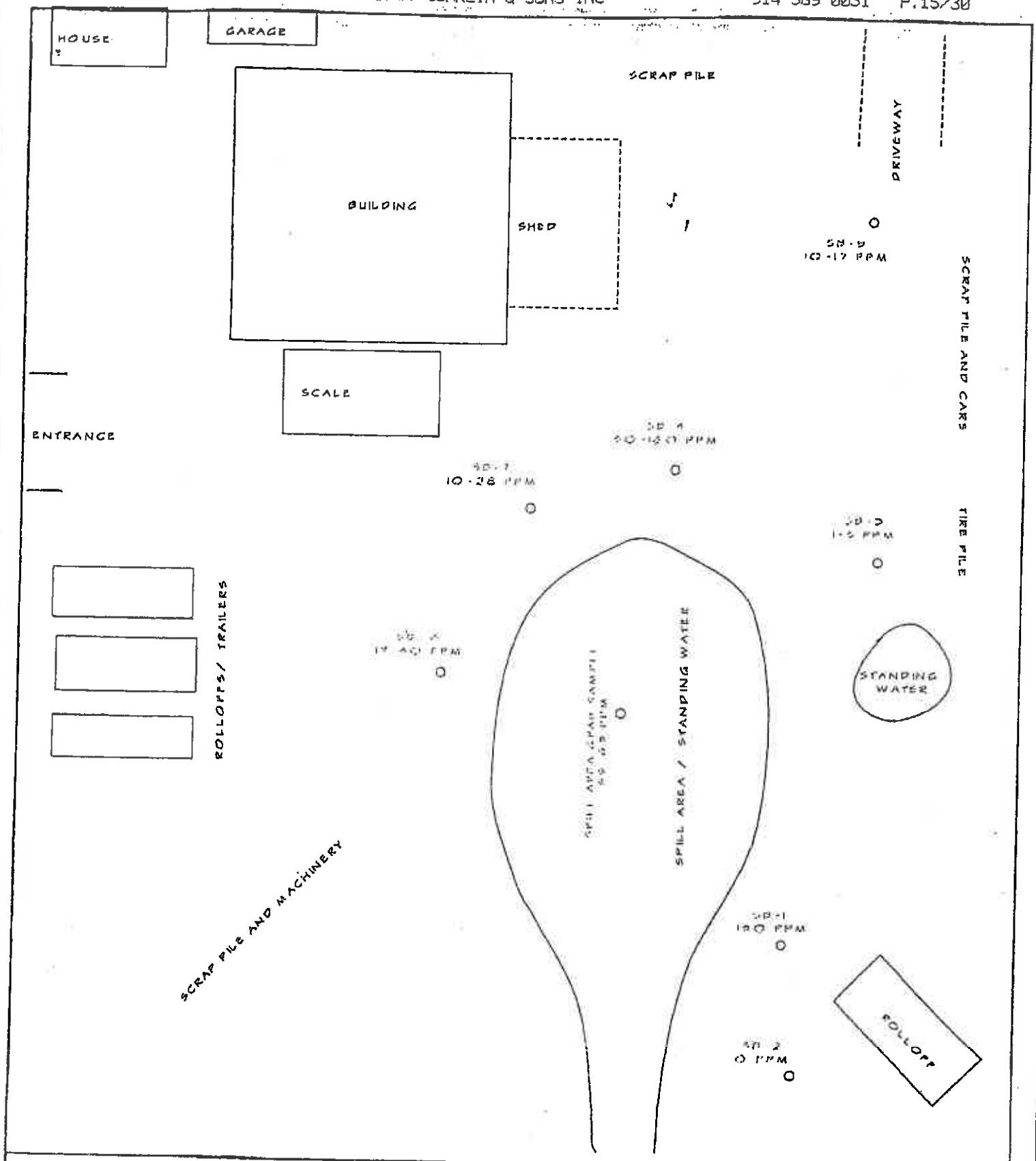
Jacqueline Patt
Environmental Scientist/ Project Manager

APPENDIX A

SITE MAPS

FIGURE 1 - SITE LOCATION





SITE MAP

DATE	SCALE	DRAWN BY
12/19/00	NTS	JMP

Ira D. Conklin & Sons, Inc.
92-94 STEWART AVENUE, NEWBURGH, NEW YORK
PHONE: (914) 561-1512 FAX: (914) 561-1798
E-MAIL: WWW.IRACONKLIN.COM

FIGURE 2

L & L SCRAP - SUBSURFACE INVESTIGATION
PEEKSKILL, NEW YORK
WORK ORDER # E-0000295
NYSDEC SPILL NO. 00-10387
NYSDEC POC

APPENDIX B

LABORATORY RESULTS

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Ira D. Conklin & Sons, Inc.
94 Stewart Ave.
P.O. Box 7457
Newburgh, NY 12550
Attention: Jackie Patt

Report Date: 12/12/2000
Re: Client Project ID: E-0000255/L&L Scrap
York Project No.: 00120040R

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

ONE RESEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 12/12/2000
Client Project ID: E-0000255/L&L Scrap

York Project No.: 00120040R

Ira D. Conklin & Sons, Inc.
94 Stewart Ave.
P.O. Box 7457
Newburgh, NY 12550
Attention: Jackie Patt

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 12/01/00. The project was identifed as your project "E-0000255/L&L Scrap ".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			3149A/SB-7		3149B/SB-6	
York Sample ID			00120040-01		00120040-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 List soil	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,1-Trichloroethane			Not detected	5.0	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,2-Trichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethylene			Not detected	5.0	Not detected	10
1,1-Dichloropropylene			Not detected	5.0	Not detected	10
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	10
1,2,3-Trichloropropane			Not detected	5.0	Not detected	10
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	10
1,2,4-Trimethylbenzene			68	5.0	1800	10
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	10
1,2-Dibromoethane			Not detected	5.0	Not detected	10
1,2-Dichlorobenzene			Not detected	5.0	Not detected	10
1,2-Dichloroethane			Not detected	5.0	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	10
1,2-Dichloropropane			Not detected	5.0	Not detected	10
1,3,5-Trimethylbenzene			62	5.0	820	10
1,3-Dichlorobenzene			Not detected	5.0	Not detected	10
1,3-Dichloropropane			Not detected	5.0	Not detected	10
1,4-Dichlorobenzene			Not detected	5.0	Not detected	10
2,2-Dichloropropane			Not detected	5.0	Not detected	10

YORK

Client Sample ID			3149A/SB-7		3149B/SB-6	
York Sample ID			00120040-01		00120040-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
2-Chlorotoluene			Not detected	5.0	Not detected	10
4-Chlorotoluene			Not detected	5.0	Not detected	10
Benzene			Not detected	5.0	28	10
Bromobenzene			Not detected	5.0	Not detected	10
Bromochloromethane			Not detected	5.0	Not detected	10
Bromodichloromethane			Not detected	5.0	Not detected	10
Bromoform			Not detected	5.0	Not detected	10
Bromomethane			Not detected	5.0	Not detected	10
Carbon tetrachloride			Not detected	5.0	Not detected	10
Chlorobenzene			Not detected	5.0	Not detected	10
Chloroethane			Not detected	5.0	Not detected	10
Chloroform			Not detected	5.0	Not detected	10
Chloromethane			Not detected	5.0	Not detected	10
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Dibromochloromethane			Not detected	5.0	Not detected	10
Dibromomethane			Not detected	5.0	Not detected	10
Dichlorodifluoromethane			Not detected	5.0	Not detected	10
Ethylbenzene			Not detected	5.0	330	10
Hexachlorobutadiene			Not detected	5.0	Not detected	10
Isopropylbenzene			Not detected	5.0	53	10
Methylene chloride			Not detected	5.0	Not detected	10
Naphthalene			18	5.0	350	10
n-Butylbenzene			11	5.0	150	10
n-Propylbenzene			Not detected	5.0	150	10
o-Xylene			43	5.0	740	10
p- & m-Xylenes			19	5.0	750	10
p-Isopropyltoluene			Not detected	5.0	28	10
sec-Butylbenzene			Not detected	5.0	23	10
Styrene			Not detected	5.0	Not detected	10
tert-Butylbenzene			8	5.0	210	10
Tetrachloroethylene			Not detected	5.0	Not detected	10
Toluene			Not detected	5.0	92	10
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Trichloroethylene			Not detected	5.0	Not detected	10
Trichlorofluoromethane			Not detected	5.0	Not detected	10
Vinyl chloride			Not detected	5.0	Not detected	10
MTBE			Not detected	5.0	24	10
BNA-8270 List soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	330	Not detected	3300
1,2-Dichlorobenzene			Not detected	330	Not detected	3300
1,3-Dichlorobenzene			Not detected	330	Not detected	3300
1,4-Dichlorobenzene			Not detected	330	Not detected	3300
2,4,5-Trichlorophenol			Not detected	330	Not detected	3300
2,4,6-Trichlorophenol			Not detected	330	Not detected	3300
2,4-Dichlorophenol			Not detected	330	Not detected	3300
2,4-Dimethylphenol			Not detected	330	Not detected	3300
2,4-Dinitrophenol			Not detected	1700	Not detected	17000
2,4-Dinitrotoluene			Not detected	330	Not detected	3300
2,6-Dinitrotoluene			Not detected	330	Not detected	3300
2-Chloronaphthalene			Not detected	330	Not detected	3300
2-Chlorophenol			Not detected	330	Not detected	3300
2-Methylnaphthalene			Not detected	330	3400	3300
2-Methylphenol			Not detected	330	Not detected	3300

YORK

Client Sample ID			3149A/SB-7		3149B/SB-6	
York Sample ID			00120040-01		00120040-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
2-Nitroaniline			Not detected	1700	Not detected	17000
2-Nitrophenol			Not detected	330	Not detected	3300
3,3'-Dichlorobenzidine			Not detected	330	Not detected	3300
3-Nitroaniline			Not detected	1700	Not detected	17000
4,6-Dinitro-2-methylphenol			Not detected	1700	Not detected	17000
4-Bromophenyl phenyl ether			Not detected	330	Not detected	3300
4-Chloro-3-methyl phenol			Not detected	330	Not detected	3300
4-Chloroaniline			Not detected	330	Not detected	3300
4-Chlorophenyl phenyl ether			Not detected	330	Not detected	3300
4-Methylphenol			Not detected	330	Not detected	3300
4-Nitroaniline			Not detected	1700	Not detected	17000
4-Nitrophenol			Not detected	1700	Not detected	17000
Acenaphthene			Not detected	330	Not detected	3300
Acenaphthylene			Not detected	330	Not detected	3300
Anthracene			Not detected	330	3700	3300
Benzo(a)anthracene			Not detected	330	9400	3300
Benzo(a)pyrene			Not detected	330	5000	3300
Benzo(b)fluoranthene			Not detected	330	3700	3300
Benzo(g,h,i)perylene			Not detected	330	Not detected	3300
Benzo(k)fluoranthene			Not detected	330	4700	3300
Benzyl alcohol			Not detected	330	Not detected	3300
Bis(2-chloroethoxy)methane			Not detected	330	Not detected	3300
Bis(2-chloroethyl)ether			Not detected	330	Not detected	3300
Bis(2-chloroisopropyl)ether			Not detected	330	Not detected	3300
Bis(2-ethylhexyl)phthalate			490	330	9000	3300
Butyl benzyl phthalate			Not detected	330	Not detected	3300
Chrysene			Not detected	330	9300	3300
Dibenz(a,h)anthracene			Not detected	330	Not detected	3300
Dibenzofuran			Not detected	330	Not detected	3300
Diethylphthalate			Not detected	330	Not detected	3300
Dimethylphthalate			Not detected	330	Not detected	3300
Di-n-butylphthalate			Not detected	330	Not detected	3300
Di-n-octylphthalate			Not detected	330	Not detected	3300
Fluoranthene			Not detected	330	7800	3300
Fluorene			Not detected	330	Not detected	3300
Hexachlorobenzene			Not detected	330	Not detected	3300
Hexachlorobutadiene			Not detected	330	Not detected	3300
Hexachlorocyclopentadiene			Not detected	330	Not detected	3300
Hexachloroethane			Not detected	330	Not detected	3300
Indeno(1,2,3-cd)pyrene			Not detected	330	Not detected	3300
Isophorone			Not detected	330	Not detected	3300
Naphthalene			Not detected	330	Not detected	3300
Nitrobenzene			Not detected	330	Not detected	3300
N-Nitrosodi-n-propylamine			Not detected	330	Not detected	3300
N-Nitrosodiphenylamine			Not detected	330	Not detected	3300
Pentachlorophenol			Not detected	1700	Not detected	17000
Phenanthrene			Not detected	330	18000	3300
Phenol			Not detected	330	Not detected	3300
Pyrene			Not detected	330	5300	3300
PCB	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.04	Not detected	0.20
PCB 1221			Not detected	0.04	Not detected	0.20
PCB 1232			Not detected	0.04	Not detected	0.20

YORK

Client Sample ID			3149A/SB-7		3149B/SB-6	
York Sample ID			00120040-01		00120040-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
PCB 1242			Not detected	0.04	Not detected	0.20
PCB 1248			Not detected	0.04	Not detected	0.20
PCB 1254			0.06	0.04	3.2	0.20
PCB 1260			Not detected	0.04	Not detected	0.20
PCB, Total			0.06	0.04	3.2	0.20
Total RCRA Metals	SW846	mg/kG	---	---	---	---
Arsenic, total			3.20	1.00	Not detected	1.00
Barium, total			262	0.50	156	0.50
Cadmium, total			Not detected	0.50	14.3	0.50
Chromium, total			15.6	0.50	49.0	0.50
Lead, total			28.7	0.50	559	0.50
Selenium, total			2.39	1.00	Not detected	1.00
Silver, total			Not detected	0.50	Not detected	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.25	0.709	0.25

Client Sample ID			3149C/SB-5		3149D/SB-4	
York Sample ID			00120040-03		00120040-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 List soil	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,1-Trichloroethane			Not detected	5.0	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,2-Trichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethylene			Not detected	5.0	Not detected	10
1,1-Dichloropropylene			Not detected	5.0	Not detected	10
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	10
1,2,3-Trichloropropane			Not detected	5.0	Not detected	10
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	10
1,2,4-Trimethylbenzene			170	5.0	6400	10
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	10
1,2-Dibromoethane			Not detected	5.0	Not detected	10
1,2-Dichlorobenzene			Not detected	5.0	Not detected	10
1,2-Dichloroethane			Not detected	5.0	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	10
1,2-Dichloropropane			Not detected	5.0	Not detected	10
1,3,5-Trimethylbenzene			47	5.0	2400	10
1,3-Dichlorobenzene			Not detected	5.0	Not detected	10
1,3-Dichloropropane			Not detected	5.0	Not detected	10
1,4-Dichlorobenzene			Not detected	5.0	Not detected	10
2,2-Dichloropropane			Not detected	5.0	Not detected	10
2-Chlorotoluene			Not detected	5.0	Not detected	10
4-Chlorotoluene			Not detected	5.0	Not detected	10
Benzene			Not detected	5.0	45	10
Bromobenzene			Not detected	5.0	Not detected	10
Bromochloromethane			Not detected	5.0	Not detected	10
Bromodichloromethane			Not detected	5.0	Not detected	10
Bromoform			Not detected	5.0	Not detected	10
Bromomethane			Not detected	5.0	Not detected	10
Carbon tetrachloride			Not detected	5.0	Not detected	10
Chlorobenzene			Not detected	5.0	Not detected	10

YORK

Client Sample ID			3149C/SB-5		3149D/SB-4	
York Sample ID			00120040-03		00120040-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloroethane			Not detected	5.0	Not detected	10
Chloroform			Not detected	5.0	Not detected	10
Chloromethane			Not detected	5.0	Not detected	10
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Dibromochloromethane			Not detected	5.0	Not detected	10
Dibromomethane			Not detected	5.0	Not detected	10
Dichlorodifluoromethane			Not detected	5.0	Not detected	10
Ethylbenzene			13	5.0	1600	10
Hexachlorobutadiene			Not detected	5.0	Not detected	10
Isopropylbenzene			Not detected	5.0	300	10
Methylene chloride			Not detected	5.0	Not detected	10
Naphthalene			35	5.0	1500	10
n-Butylbenzene			13	5.0	500	10
n-Propylbenzene			18	5.0	780	10
o-Xylene			41	5.0	5000	10
p- & m-Xylenes			66	5.0	8200	10
p-Isopropyltoluene			Not detected	5.0	72	10
sec-Butylbenzene			Not detected	5.0	92	10
Styrene			Not detected	5.0	Not detected	10
tert-Butylbenzene			19	5.0	720	10
Tetrachloroethylene			Not detected	5.0	14	10
Toluene			8	5.0	3400	10
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Trichloroethylene			Not detected	5.0	Not detected	10
Trichlorofluoromethane			Not detected	5.0	Not detected	10
Vinyl chloride			Not detected	5.0	Not detected	10
MTBE			Not detected	5.0	41	10
BNA-8270 List soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	330	Not detected	3300
1,2-Dichlorobenzene			Not detected	330	Not detected	3300
1,3-Dichlorobenzene			Not detected	330	Not detected	3300
1,4-Dichlorobenzene			Not detected	330	Not detected	3300
2,4,5-Trichlorophenol			Not detected	330	Not detected	3300
2,4,6-Trichlorophenol			Not detected	330	Not detected	3300
2,4-Dichlorophenol			Not detected	330	Not detected	3300
2,4-Dimethylphenol			Not detected	330	Not detected	3300
2,4-Dinitrophenol			Not detected	1700	Not detected	17000
2,4-Dinitrotoluene			Not detected	330	Not detected	3300
2,6-Dinitrotoluene			Not detected	330	Not detected	3300
2-Chloronaphthalene			Not detected	330	Not detected	3300
2-Chlorophenol			Not detected	330	Not detected	3300
2-Methylnaphthalene			Not detected	330	6000	3300
2-Methylphenol			Not detected	330	Not detected	3300
2-Nitroaniline			Not detected	1700	Not detected	17000
2-Nitrophenol			Not detected	330	Not detected	3300
3,3'-Dichlorobenzidine			Not detected	330	Not detected	3300
3-Nitroaniline			Not detected	1700	Not detected	17000
4,6-Dinitro-2-methylphenol			Not detected	1700	Not detected	17000
4-Bromophenyl phenyl ether			Not detected	330	Not detected	3300
4-Chloro-3-methyl phenol			Not detected	330	Not detected	3300
4-Chloroaniline			Not detected	330	Not detected	3300
4-Chlorophenyl phenyl ether			Not detected	330	Not detected	3300
4-Methylphenol			Not detected	330	Not detected	3300

YORK

Client Sample ID			3149C/SB-5		3149D/SB-4	
York Sample ID			00120040-03		00120040-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
4-Nitroaniline			Not detected	1700	Not detected	17000
4-Nitrophenol			Not detected	1700	Not detected	17000
Acenaphthene			Not detected	330	Not detected	3300
Acenaphthylene			Not detected	330	Not detected	3300
Anthracene			Not detected	330	Not detected	3300
Benzo(a)anthracene			Not detected	330	Not detected	3300
Benzo(a)pyrene			Not detected	330	Not detected	3300
Benzo(b)fluoranthene			Not detected	330	Not detected	3300
Benzo(g,h,i)perylene			Not detected	330	Not detected	3300
Benzo(k)fluoranthene			Not detected	330	Not detected	3300
Benzyl alcohol			Not detected	330	Not detected	3300
Bis(2-chloroethoxy)methane			Not detected	330	Not detected	3300
Bis(2-chloroethyl)ether			Not detected	330	Not detected	3300
Bis(2-chloroisopropyl)ether			Not detected	330	Not detected	3300
Bis(2-ethylhexyl)phthalate			Not detected	330	Not detected	3300
Butyl benzyl phthalate			Not detected	330	Not detected	3300
Chrysene			Not detected	330	Not detected	3300
Dibenz(a,h)anthracene			Not detected	330	Not detected	3300
Dibenzofuran			Not detected	330	Not detected	3300
Diethylphthalate			Not detected	330	Not detected	3300
Dimethylphthalate			Not detected	330	Not detected	3300
Di-n-butylphthalate			Not detected	330	Not detected	3300
Di-n-octylphthalate			Not detected	330	Not detected	3300
Fluoranthene			Not detected	330	3400	3300
Fluorene			Not detected	330	Not detected	3300
Hexachlorobenzene			Not detected	330	Not detected	3300
Hexachlorobutadiene			Not detected	330	Not detected	3300
Hexachlorocyclopentadiene			Not detected	330	Not detected	3300
Hexachloroethane			Not detected	330	Not detected	3300
Indeno(1,2,3-cd)pyrene			Not detected	330	Not detected	3300
Isophorone			Not detected	330	Not detected	3300
Naphthalene			Not detected	330	3700	3300
Nitrobenzene			Not detected	330	Not detected	3300
N-Nitrosodi-n-propylamine			Not detected	330	Not detected	3300
N-Nitrosodiphenylamine			Not detected	330	Not detected	3300
Pentachlorophenol			Not detected	1700	Not detected	17000
Phenanthrene			Not detected	330	4500	3300
Phenol			Not detected	330	Not detected	3300
Pyrene			Not detected	330	3300	3300
PCB	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.02	1.6	0.20
PCB 1221			Not detected	0.02	Not detected	0.20
PCB 1232			Not detected	0.02	Not detected	0.20
PCB 1242			Not detected	0.02	Not detected	0.20
PCB 1248			Not detected	0.02	Not detected	0.20
PCB 1254			Not detected	0.02	2.1	0.20
PCB 1260			Not detected	0.02	Not detected	0.20
PCB, Total			Not detected	0.02	3.7	0.20
Total RCRA Metals	SW846	mg/kG	---	---	---	---
Arsenic, total			2.68	1.00	Not detected	1.00
Barium, total			277	0.50	298	0.50
Cadmium, total			Not detected	0.50	10.3	0.50
Chromium, total			19.8	0.50	124	[illegible]

YORK

Client Sample ID			3149C/SB-5		3149D/SB-4	
York Sample ID			00120040-03		00120040-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Lead, total			46.4	0.50	578	0.50
Selenium, total			1.82	1.00	Not detected	1.00
Silver, total			Not detected	0.50	1.77	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.25	0.310	0.25

Client Sample ID			3149E/SB-3		3149F/SB-2	
York Sample ID			00120040-05		00120040-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 List soil	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,1-Dichloropropylene			Not detected	5.0	Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0	Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2,4-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	5.0
1,2-Dibromoethane			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,3-Dichloropropane			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
2,2-Dichloropropane			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzene			Not detected	5.0	Not detected	5.0
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromochloromethane			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	5.0	Not detected	5.0
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	5.0	Not detected	5.0
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Hexachlorobutadiene			Not detected	5.0	Not detected	5.0
Isopropylbenzene			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			3149E/SB-3		3149F/SB-2	
York Sample ID			00120040-05		00120040-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Methylene chloride			Not detected	5.0	Not detected	5.0
Naphthalene			Not detected	5.0	Not detected	5.0
n-Butylbenzene			Not detected	5.0	Not detected	5.0
n-Propylbenzene			Not detected	5.0	Not detected	5.0
o-Xylene			Not detected	5.0	Not detected	5.0
p- & m-Xylenes			Not detected	5.0	Not detected	5.0
p-Isopropyltoluene			Not detected	5.0	Not detected	5.0
sec-Butylbenzene			Not detected	5.0	Not detected	5.0
Styrene			Not detected	5.0	Not detected	5.0
tert-Butylbenzene			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	5.0	Not detected	5.0
MTBE			Not detected	5.0	Not detected	5.0
BNA-8270 List soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	330	Not detected	330
1,2-Dichlorobenzene			Not detected	330	Not detected	330
1,3-Dichlorobenzene			Not detected	330	Not detected	330
1,4-Dichlorobenzene			Not detected	330	Not detected	330
2,4,5-Trichlorophenol			Not detected	330	Not detected	330
2,4,6-Trichlorophenol			Not detected	330	Not detected	330
2,4-Dichlorophenol			Not detected	330	Not detected	330
2,4-Dimethylphenol			Not detected	330	Not detected	330
2,4-Dinitrophenol			Not detected	1700	Not detected	1700
2,4-Dinitrotoluene			Not detected	330	Not detected	330
2,6-Dinitrotoluene			Not detected	330	Not detected	330
2-Chloronaphthalene			Not detected	330	Not detected	330
2-Chlorophenol			Not detected	330	Not detected	330
2-Methylnaphthalene			Not detected	330	Not detected	330
2-Methylphenol			Not detected	330	Not detected	330
2-Nitroaniline			Not detected	1700	Not detected	1700
2-Nitrophenol			Not detected	330	Not detected	330
3,3'-Dichlorobenzidine			Not detected	330	Not detected	330
3-Nitroaniline			Not detected	1700	Not detected	1700
4,6-Dinitro-2-methylphenol			Not detected	1700	Not detected	1700
4-Bromophenyl phenyl ether			Not detected	330	Not detected	330
4-Chloro-3-methyl phenol			Not detected	330	Not detected	330
4-Chloroaniline			Not detected	330	Not detected	330
4-Chlorophenyl phenyl ether			Not detected	330	Not detected	330
4-Methylphenol			Not detected	330	Not detected	330
4-Nitroaniline			Not detected	1700	Not detected	1700
4-Nitrophenol			Not detected	1700	Not detected	1700
Acenaphthene			Not detected	330	670	330
Acenaphthylene			Not detected	330	Not detected	330
Anthracene			Not detected	330	1300	330
Benzo(a)anthracene			Not detected	330	3500	330
Benzo(a)pyrene			Not detected	330	2700	330
Benzo(b)fluoranthene			Not detected	330	2400	330
Benzo(g,h,i)perylene			Not detected	330	Not detected	330
Benzo(k)fluoranthene			Not detected	330	3700	330

YORK

Client Sample ID			3149E/SB-3		3149F/SB-2	
York Sample ID			00120040-05		00120040-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl alcohol			Not detected	330	Not detected	330
Bis(2-chloroethoxy)methane			Not detected	330	Not detected	330
Bis(2-chloroethyl)ether			Not detected	330	Not detected	330
Bis(2-chloroisopropyl)ether			Not detected	330	Not detected	330
Bis(2-ethylhexyl)phthalate			Not detected	330	1600	330
Butyl benzyl phthalate			Not detected	330	1600	330
Chrysene			Not detected	330	2800	330
Dibenz(a,h)anthracene			Not detected	330	Not detected	330
Dibenzofuran			Not detected	330	380	330
Diethylphthalate			Not detected	330	Not detected	330
Dimethylphthalate			Not detected	330	Not detected	330
Di-n-butylphthalate			Not detected	330	Not detected	330
Di-n-octylphthalate			Not detected	330	Not detected	330
Fluoranthene			360	330	3500	330
Fluorene			Not detected	330	910	330
Hexachlorobenzene			Not detected	330	Not detected	330
Hexachlorobutadiene			Not detected	330	Not detected	330
Hexachlorocyclopentadiene			Not detected	330	Not detected	330
Hexachloroethane			Not detected	330	Not detected	330
Indeno(1,2,3-cd)pyrene			Not detected	330	Not detected	330
Isophorone			Not detected	330	Not detected	330
Naphthalene			Not detected	330	Not detected	330
Nitrobenzene			Not detected	330	Not detected	330
N-Nitrosodi-n-propylamine			Not detected	330	Not detected	330
N-Nitrosodiphenylamine			Not detected	330	Not detected	330
Pentachlorophenol			Not detected	1700	Not detected	1700
Phenanthrene			Not detected	330	3000	330
Phenol			Not detected	330	Not detected	330
Pyrene			Not detected	330	2600	330
PCB	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.02	Not detected	0.02
PCB 1221			Not detected	0.02	Not detected	0.02
PCB 1232			Not detected	0.02	Not detected	0.02
PCB 1242			Not detected	0.02	Not detected	0.02
PCB 1248			Not detected	0.02	Not detected	0.02
PCB 1254			Not detected	0.02	0.67	0.02
PCB 1260			0.08	0.02	Not detected	0.02
PCB, Total			0.08	0.02	0.67	0.02
Total RCRA Metals	SW846	mg/kG	---	---	---	---
Arsenic, total			Not detected	1.00	5.38	1.00
Barium, total			350	0.50	430	0.50
Cadmium, total			0.91	0.50	1.20	0.50
Chromium, total			21.2	0.50	23.4	0.50
Lead, total			29.8	0.50	364	0.50
Selenium, total			1.72	1.00	1.65	1.00
Silver, total			Not detected	0.50	Not detected	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.25	Not detected	0.25

YORK

Client Sample ID			3149G/SB-1		3149H/Spill Area	
York Sample ID			00120040-07		00120040-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 List soil	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	50	Not detected	50
1,1,1-Trichloroethane			Not detected	50	Not detected	50
1,1,2,2-Tetrachloroethane			Not detected	50	Not detected	50
1,1,2-Trichloroethane			Not detected	50	Not detected	50
1,1-Dichloroethane			Not detected	50	Not detected	50
1,1-Dichloroethylene			Not detected	50	Not detected	50
1,1-Dichloropropylene			Not detected	50	Not detected	50
1,2,3-Trichlorobenzene			Not detected	50	Not detected	50
1,2,3-Trichloropropane			Not detected	50	Not detected	50
1,2,4-Trichlorobenzene			Not detected	50	Not detected	50
1,2,4-Trimethylbenzene			1300	50	140000	50
1,2-Dibromo-3-chloropropane			Not detected	50	Not detected	50
1,2-Dibromoethane			Not detected	50	Not detected	50
1,2-Dichlorobenzene			Not detected	50	Not detected	50
1,2-Dichloroethane			Not detected	50	Not detected	50
1,2-Dichloroethylene (Total)			Not detected	50	Not detected	50
1,2-Dichloropropane			Not detected	50	Not detected	50
1,3,5-Trimethylbenzene			990	50	67000	50
1,3-Dichlorobenzene			Not detected	50	Not detected	50
1,3-Dichloropropane			Not detected	50	Not detected	50
1,4-Dichlorobenzene			Not detected	50	Not detected	50
2,2-Dichloropropane			Not detected	50	Not detected	50
2-Chlorotoluene			Not detected	50	Not detected	50
4-Chlorotoluene			Not detected	50	Not detected	50
Benzene			1000	50	2300	50
Bromobenzene			Not detected	50	Not detected	50
Bromochloromethane			Not detected	50	Not detected	50
Bromodichloromethane			Not detected	50	Not detected	50
Bromoform			Not detected	50	Not detected	50
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	50	Not detected	50
Chlorobenzene			Not detected	50	Not detected	50
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	50	Not detected	50
Chloromethane			Not detected	50	Not detected	50
cis-1,3-Dichloropropylene			Not detected	50	Not detected	50
Dibromochloromethane			Not detected	50	Not detected	50
Dibromomethane			Not detected	50	Not detected	50
Dichlorodifluoromethane			Not detected	50	Not detected	50
Ethylberzene			160	50	53000	50
Hexachlorobutadiene			Not detected	50	Not detected	50
Isopropylbenzene			Not detected	50	9500	50
Methylene chloride			Not detected	50	Not detected	50
Naphthalene			220	50	35000	50
n-Butylbenzene			110	50	23000	50
n-Propylbenzene			Not detected	50	26000	50
o-Xylene			3800	50	110000	50
p- & m-Xylenes			5200	50	180000	50
p-Isopropyltoluene			Not detected	50	3500	50
sec-Butylbenzene			Not detected	50	4500	50
Styrene			Not detected	50	Not detected	50
tert-Butylbenzene			140	50	16000	50

YORK

Client Sample ID			3149G/SB-1		3149H/Spill Area	
York Sample ID			00120040-07		00120040-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Tetrachloroethylene			Not detected	50	Not detected	50
Toluene			4000	50	86000	50
trans-1,3-Dichloropropylene			Not detected	50	Not detected	50
Trichloroethylene			Not detected	50	Not detected	50
Trichlorofluoromethane			Not detected	50	Not detected	50
Vinyl chloride			Not detected	50	Not detected	50
MTBE			1300	50	2900	50
BNA-8270 List soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	3300	Not detected	1700
1,2-Dichlorobenzene			Not detected	3300	Not detected	1700
1,3-Dichlorobenzene			Not detected	3300	Not detected	1700
1,4-Dichlorobenzene			Not detected	3300	Not detected	1700
2,4,5-Trichlorophenol			Not detected	3300	Not detected	1700
2,4,6-Trichlorophenol			Not detected	3300	Not detected	1700
2,4-Dichlorophenol			Not detected	3300	Not detected	1700
2,4-Dimethylphenol			Not detected	3300	Not detected	1700
2,4-Dinitrophenol			Not detected	17000	Not detected	8500
2,4-Dinitrotoluene			Not detected	3300	Not detected	1700
2,6-Dinitrotoluene			Not detected	3300	Not detected	1700
2-Chloronaphthalene			Not detected	3300	Not detected	1700
2-Chlorophenol			Not detected	3300	Not detected	1700
2-Methylnaphthalene			Not detected	3300	26000	1700
2-Methylphenol			Not detected	3300	Not detected	1700
2-Nitroaniline			Not detected	17000	Not detected	8500
2-Nitrophenol			Not detected	3300	Not detected	1700
3,3'-Dichlorobenzidine			Not detected	3300	Not detected	1700
3-Nitroaniline			Not detected	17000	Not detected	8500
4,6-Dinitro-2-methylphenol			Not detected	17000	Not detected	8500
4-Bromophenyl phenyl ether			Not detected	3300	Not detected	1700
4-Chloro-3-methyl phenol			Not detected	3300	Not detected	1700
4-Chloroaniline			Not detected	3300	Not detected	1700
4-Chlorophenyl phenyl ether			Not detected	3300	Not detected	1700
4-Methylphenol			Not detected	3300	Not detected	1700
4-Nitroaniline			Not detected	17000	Not detected	8500
4-Nitrophenol			Not detected	17000	Not detected	8500
Acenaphthene			Not detected	3300	Not detected	1700
Acenaphthylene			Not detected	3300	Not detected	1700
Anthracene			Not detected	3300	Not detected	1700
Benzo(a)anthracene			Not detected	3300	Not detected	1700
Benzo(a)pyrene			Not detected	3300	Not detected	1700
Benzo(b)fluoranthene			Not detected	3300	Not detected	1700
Benzo(g,h,i)perylene			Not detected	3300	Not detected	1700
Benzo(k)fluoranthene			Not detected	3300	Not detected	1700
Benzyl alcohol			Not detected	3300	Not detected	1700
Bis(2-chloroethoxy)methane			Not detected	3300	Not detected	1700
Bis(2-chloroethyl)ether			Not detected	3300	Not detected	1700
Bis(2-chloroisopropyl)ether			Not detected	3300	Not detected	1700
Bis(2-ethylhexyl)phthalate			7500	3300	19000	1700
Butyl benzyl phthalate			Not detected	3300	3800	1700
Chrysene			Not detected	3300	Not detected	1700
Dibenz(a,h)anthracene			Not detected	3300	Not detected	1700
Dibenzofuran			Not detected	3300	Not detected	1700
Diethylphthalate			Not detected	3300	Not detected	1700
Dimethylphthalate			Not detected	3300	Not detected	1700

Client Sample ID			3149G/SB-1		3149H/Spill Area	
York Sample ID			00120040-07		00120040-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Di-n-butylphthalate			Not detected	3300	Not detected	1700
Di-n-octylphthalate			Not detected	3300	3500	1700
Fluoranthene			Not detected	3300	2200	1700
Fluorene			Not detected	3300	Not detected	1700
Hexachlorobenzene			Not detected	3300	Not detected	1700
Hexachlorobutadiene			Not detected	3300	Not detected	1700
Hexachlorocyclopentadiene			Not detected	3300	Not detected	1700
Hexachloroethane			Not detected	3300	Not detected	1700
Indeno(1,2,3-cd)pyrene			Not detected	3300	Not detected	1700
Isophorone			Not detected	3300	Not detected	1700
Naphthalene			Not detected	3300	Not detected	1700
Nitrobenzene			Not detected	3300	17000	1700
N-Nitrosodi-n-propylamine			Not detected	3300	Not detected	1700
N-Nitrosodiphenylamine			Not detected	3300	Not detected	1700
Pentachlorophenol			Not detected	3300	Not detected	1700
Phenanthrene			Not detected	17000	Not detected	8500
Phenol			Not detected	3300	2500	1700
Pyrene			Not detected	3300	Not detected	1700
PCB	SW846-3550B/8082	mg/Kg	Not detected	3300	3300	1700
PCB 1016			---	---	---	---
PCB 1221			0.65	0.02	0.95	0.02
PCB 1232			Not detected	0.02	Not detected	0.02
PCB 1242			Not detected	0.02	Not detected	0.02
PCB 1248			Not detected	0.02	Not detected	0.02
PCB 1254			Not detected	0.02	Not detected	0.02
PCB 1260			0.48	0.02	0.44	0.02
PCB, Total			Not detected	0.02	0.22	0.02
Total RCRA Metals	SW846	mg/kG	1.1	0.02	1.6	0.02
Arsenic, total			---	---	---	---
Barium, total			Not detected	1.00	Not detected	1.00
Cadmium, total			265	0.50	184	0.50
Chromium, total			13.6	0.50	8.91	0.50
Lead, total			61.3	0.50	46.6	0.50
Selenium, total			837	0.50	1360	0.50
Silver, total			Not detected	1.00	Not detected	1.00
Mercury	SW846-7471	mg/kG	4.43	0.50	4.12	0.50
			1.086	0.25	0.415	0.25

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

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. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
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.

Approved By: Robert Q. Bradley
Managing Director

Date: 12/12/2000

YORK

00120040

2016 YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

PO# 19550

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
IDC	Jackie Patt	Lana Bowden	L+L Scrap E-0000255	Jacqueline Patt / Jacqueline Patt

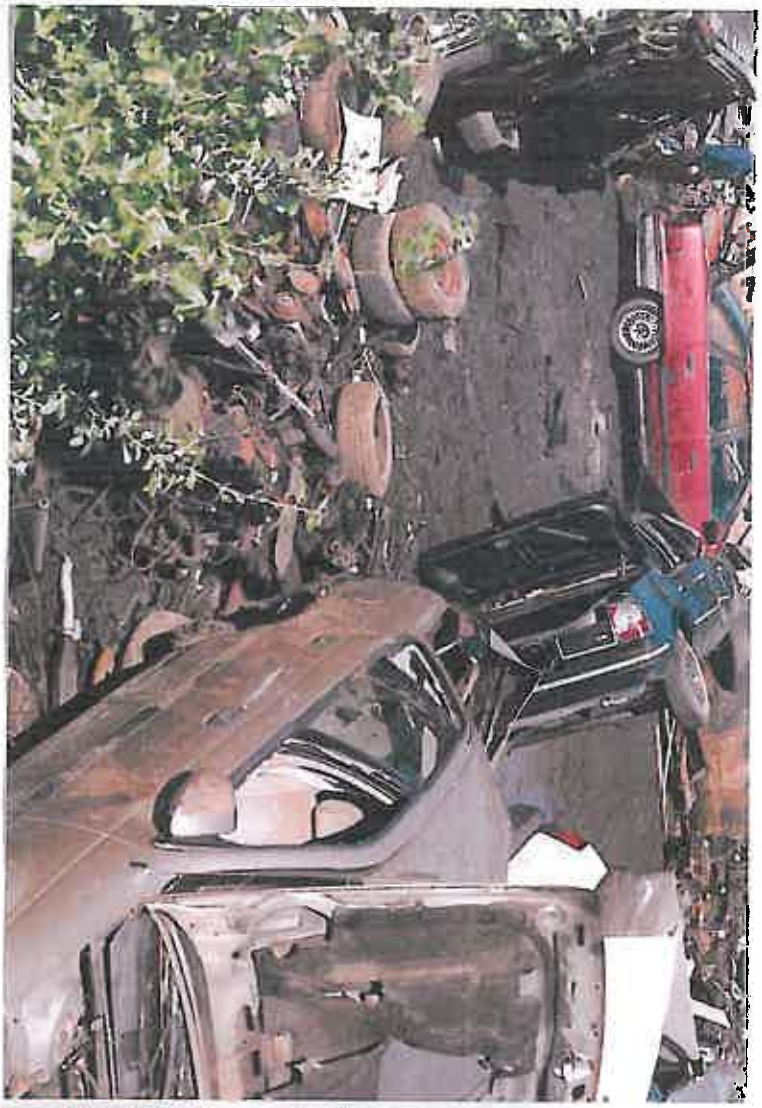
Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
3149 A	SB-7	11/30/00		X			8021 Totals	1-8
3149 B	SB-6			X			8270 totals	
3149 C	SB-5			X			8080 PCB's	
3149 D	SB-4			X			RCRA metals	
3149 E	SB-3			X			for all	
3149 F	SB-2			X			samples	
3149 G	SB-1							
3149 H	Spill area							

Chain-of-Custody Record

	Date/Time		Date/Time		Date/Time
Bottles Relinquished from Lab by		Sample Relinquished by: Jacqueline Patt		Sample Received by: Wayne	12/1 200
Bottles Received in Field by		Sample Relinquished by		Sample Received in LAB by: J. Lark	12-1-00 1700

Comments/Special Instructions

Turn-Around Time: Standard ___ RUSH(define)___




WASTE OIL

NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Locaparra, Richard d/b/a L and L Scrap Metals - Decision and Order, June 16, 2003

Decision and Order, June 16, 2003

STATE OF NEW YORK : DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway
Albany, New York 12233-1010

In the Matter

-of-

Alleged Violations of the Environmental Conservation Law ("ECL") Articles 17, 27 and 71; Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York; and Article 12 of the Navigation Law of the State of New York,

by

Richard Locaparra,
d/b/a L & L Scrap Metals,
Respondent.

DEC Case No. 3-20000407-39

FINAL DECISION and ORDER OF THE COMMISSIONER

June 16, 2003

FINAL DECISION AND ORDER OF THE COMMISSIONER

In this administrative enforcement proceeding commenced pursuant to 6 NYCRR Part 622, Department of Environmental Conservation Staff ("Staff") moves for an order without hearing pursuant to 6 NYCRR 622.12 holding respondent Richard Locaparra liable for violations alleged in the three causes of action stated in its complaint and imposing a civil penalty. ALJ Buhrmaster, in his hearing report, recommends, among other things, that respondent be held liable for violations alleged in a portion of the first and third causes of action, that the second cause of action and the remainder of the first and third causes of action be dismissed, that remediation be directed and that a civil penalty in the amount of $7,500 be assessed. For the reasons that follow, I adopt the ALJ's report and recommendations in part.

Liability

I adopt in full the ALJ's "Findings of Fact" and will not repeat them here. In sum, this proceeding involves the discharge of petroleum (oil and gasoline) at respondent's car crushing and scrap metal business in Peekskill, New York. In its complaint, Staff alleged three causes of action: (1) that respondent discharged waste automotive fluids, including oil and gasoline, into the waters of the State in violation of ECL sect; 17-0501 and 6 NYCRR 703.6; (2) that respondent discharged pollutants into State waters without a SPDES permit in violation of ECL § 17-0803 and 6 NYCRR 751.1; and (3) that

respondent discharged petroleum in violation of Navigation Law § 173. Each cause of action alleged that the discharges occurred on two separate occasions, March 14 and March 20, 2000.

In support of its motion for an order without hearing on the entire complaint, Staff relied on a certificate of disposition issued by the Peekskill City Court showing that respondent was convicted of two misdemeanors -- criminal violations of ECL § 71-2710 and ECL § 17-0501 -- resulting from a petroleum spill on March 14, 2000 at respondent's site. Staff contends that respondent's criminal conviction in the Peekskill City Court establishes that the facts alleged here occurred and, therefore, it is entitled to an order without hearing on all three causes alleged in the complaint. Staff took the position that the standard of proof required for a criminal conviction -- "proof beyond a reasonable doubt" -- is more burdensome than the standard involved in this administrative proceeding.

Staff brings this motion for an order without hearing pursuant to 6 NYCRR 622.12. That provision is governed by the same principles that govern summary judgment pursuant to CPLR 3212. Section 622.12(d) provides that a contested motion for an order without hearing will be granted if, upon all the papers and proof filed, the cause of action or defense is established sufficiently to warrant granting summary judgment under the CPLR in favor of any party.

The moving party on a summary judgment motion has the burden of establishing "his cause of action or defense 'sufficiently to warrant the court as a matter of law in directing judgment' in his favor (CPLR 3212, subd [b])."[1] The moving party carries this burden by submitting evidence sufficient to demonstrate the absence of any material issues of fact.[2] The affidavit may not consist of mere conclusory statements but must include specific evidence establishing a prima facie case with respect to each element of the cause of action that is the subject of the motion. Similarly, a party responding to a motion for summary judgment may not merely rely on conclusory statements and denials but must lay bare its proof.[3] The failure of a responding party to deny a fact alleged in the moving papers, constitutes an admission of the fact.[4]

Pursuant to the CPLR, where liability with respect to a particular cause of action is established as a matter of law, but triable issues of fact remain concerning the amount or extent of damages, summary judgment may be granted on the issue of liability only.[5] The Department's regulation expressly recognizes this possibility.[6] Similarly, both the CPLR and the regulation provide that where liability is determined with respect to one or more causes of action, but not all, summary judgment may be granted as to the causes of action established as a matter of law, leaving for a hearing the unresolved causes of action for which triable issues of fact remain.[7]

Here, Staff moved for summary judgment on the entire complaint, that is, on both the issue of liability and the issue of remedy (penalty/remediation) on all three causes of action alleged in the complaint. In support of its motion for summary judgment on the entire complaint, Staff relies on respondent's criminal conviction to satisfy all the essential elements of the three charges and the remedy sought. Staff correctly relied on the criminal conviction to establish a portion of the first cause of action.

A party convicted of a crime will, in a subsequent civil proceeding involving the same occurrence, be collaterally estopped from disputing the underlying facts already proven in the criminal case.[8] For the principle of collateral estoppel, or issue preclusion, to apply, there must be an identity of issue which has necessarily been decided in the prior action, and the party to be estopped must have had a full and fair opportunity to litigate the issue.[9]

In this case, a portion of the first cause of action alleged here was necessarily established in the criminal proceeding. All of the elements of a violation by respondent on March 14, 2000 of ECL § 17-0501 were established beyond a reasonable doubt in the Peekskill City Court. Moreover, respondent had a full and fair opportunity to litigate those issues. Therefore, respondent is collaterally estopped from disputing his violation of the statute in this civil proceeding. Accordingly, I adopt the ALJ's conclusion that respondent violated ECL § 17-0501 on March 14, 2000 and, therefore, that Staff is entitled to judgment as a matter of law on the issue of liability on that portion of the first cause of action.

The third cause of action alleges the violation of Navigation Law § 173, which provides that the discharge of petroleum is prohibited. I adopt the ALJ's determination that Staff made out a prima facie case as to the discharge of petroleum on March 14, 2000, in violation of Navigation Law § 173, by the detailed descriptions of the spilled petroleum contained in the affidavits submitted in support of the motion. These descriptions were not controverted by respondent in his response to the motion and, therefore, are deemed admitted by respondent. In the alternative, liability for this violation was also established by the facts litigated and necessarily decided in respondent's criminal proceeding. Although respondent was not criminally charged or convicted under the Navigation Law in the criminal proceeding, it is undisputed that the substance respondent was found to have discharged was petroleum. Accordingly, I approve the reasoning of the ALJ with respect to liability on a portion of the third cause of action, and adopt the ALJ's determination that on March 14, 2000, respondent violated Navigation Law § 173.

I also adopt the ALJ's reasoning and conclusion that Staff failed to demonstrate prima facie entitlement to an order without hearing on the second cause of action (the discharge of pollutants to the state's waters without a SPDES permit) and, therefore, Staff's motion for an order without hearing on that cause of action should be denied. As the ALJ noted, Staff produced no evidence that respondent was not issued a SPDES permit. Moreover, Staff's reliance on the criminal conviction is unavailing. Nothing in the record indicates that the lack of a SPDES permit was litigated and necessarily decided in the criminal proceeding. Therefore, Staff failed to establish entitlement to judgment as a matter of law on the second cause of action.

I also adopt the ALJ's reasoning and conclusion that Staff failed to demonstrate prima facie entitlement to summary judgment on the remainder of the first and third causes of action that alleged ECL and Navigation Law violations on March 20, 2000. Nothing in the affirmation or affidavits submitted in support of the motion indicates that any violations occurred on March 20, 2000. Moreover, violations on March 20, 2000, were not established in the criminal proceeding. Accordingly, I agree that Staff's motion as to the remainder of the first and third causes of action should be denied.

I do not agree, however, that dismissal of the second cause and the remainder of the first and third causes of action is warranted on this record. Summary judgment may be granted to a non-moving party if a search of the record reveals the non-moving party's entitlement to judgment as a matter of law.[10] Here, a search of the record fails to reveal evidence that respondent was issued a SPDES permit or that no violations occurred on March 20. Therefore, the remainder of the first and third causes of action stemming from violations allegedly occurring on March 20, and the second cause of action alleging violations occurring on both dates, will not be dismissed and are continued.

Civil Penalty and Remediation

By moving for an order without hearing on its entire complaint, Staff carried the burden of establishing prima facie entitlement to summary judgment as a matter of law, not only on liability but also on the penalty sought. However, the record presented here lacks a well documented analysis and relevant evidence supporting Staff's recommended penalty of $110,000, $100,000 of which would be

suspended, presumably upon a timely and successful remediation. The Department's Civil Penalty Policy provides that in an adjudicatory hearing, Department Staff should request a specific penalty amount, and should provide an explanation of how that amount was determined, with reference to the potential statutory maximum, the DEC Civil Penalty Policy, any program-specific guidance documents, other similar cases and, if relevant, any aggravating and mitigating circumstances Staff considered.[11]

The DEC Civil Penalty Policy also sets forth various components to be considered by Staff in assessing civil penalties. Many of these components are fact based, including the economic benefit of non-compliance, the gravity of the violation, culpability, violator cooperation, history of non-compliance and ability to pay.[12] Because no information or evidence regarding many of these components was provided in Staff's supporting papers in this case warranting the penalty sought, the ALJ properly declined to grant, as a matter of law, the entire penalty sought. Instead, the ALJ appropriately assessed the $7,500 penalty based upon the record before him. Accordingly, I adopt the ALJ's recommendation with respect to the amount of the penalty.

However, I do not agree with the ALJ that this penalty be allocated to the first cause of action only. As an initial matter, I, like the ALJ, reach no conclusion concerning the Commissioner's authority to assess penalties under Article 12 of the Navigation Law. The issue was not raised by the parties and is not properly before me. Moreover, I do not adopt the suggestion of the ALJ that the third cause of action be considered redundant of the first. This question also was not argued by the parties in this proceeding and is therefore not before me.[13] The penalty assessed in this case is entirely supported and justified by either the ECL §17-0501 or Navigation Law § 173 violations, or both.

Finally, I concur with and adopt the ALJ's recommendations regarding remediation of the site including, but not limited to, the direction that within 30 days of service of a copy of my Final Decision and Order herein, respondent shall submit the interim report described by the ALJ on page 12 of his hearing report. Since the completion date suggested in the ALJ's summary report has already passed, I direct that the site be completely remediated within ninety days after service of a conformed copy of my order on this motion. I also decline to suspend any portion of the penalty assessed. The ALJ recommended such a suspension as an incentive for timely remediation. Recent communications with the parties reveal that timely remediation has not occurred and, accordingly, no further incentive is warranted.

Now therefore, upon due deliberation, it is ORDERED that:

I. The findings of fact in the ALJ's hearing report are adopted in their entirety and are made a part of this Order.

II. Staff's motion for an order without hearing with respect to the first and third causes of action stated in the complaint is granted as they relate to an occurrence on March 14, 2000, and respondent is determined to have violated ECL § 17-0501 and Navigation Law § 173 on that date.

III. Staff's motion for an order without hearing with respect to the second cause of action as it relates to an occurrence on March 14, 2000 and with respect to the first, second and third causes of action as they relate to an occurrence on March 20, 2000 is denied and these causes of action are continued.

IV. Respondent is assessed a penalty of $7,500.00 for his violations of ECL § 17-0501 and Navigation Law § 173, which sum is to be paid by cashier's or certified check or money order payable to "NYSDEC" thirty (30) days after service of this Order upon respondent or his designated representative.

V. Within thirty days of service on respondent of a conformed copy of this Final Decision and Order, respondent shall:
   1. institute, implement, and provide the Department with copies of company policies and procedures that are designed to ensure compliance with the ECL; and
   2. in a manner consistent with applicable laws and regulations, either register and protect with secondary containment all petroleum bulk storage tanks on the site or dispose of such tanks off site.

VI. Unless and until appropriate secondary containment structures are approved by the Department and implemented by respondent, respondent shall not accept at the site any salvage vehicles or parts containing liquids and shall not engage in automobile dismantling and/or crushing at the site. Proposals for appropriate secondary containment structures shall include plans and specifications for handling and storage of parts containing fluids, storage of waste fluid and waste fluid containers, and construction of impervious and protected pads and containment areas suitable for vehicle dismantling and/or crushing.

VII. Respondent shall prepare and submit a comprehensive Pollution Prevention Plan for the site, addressing the handling and management of fluids and waste at the site pursuant to the ECL and the Automotive Recyclers Association Storm Water Guidance Manual, dated September 1996.

VIII. Respondent shall complete a site cleanup within ninety (90) days of receipt of a conformed copy of this Final Decision and Order, and do so in accordance with the requirements of his remedial work plan dated March 5, 2001, which already has been approved by Department Staff. Within 30 days of receipt of this order, respondent shall submit an interim report identifying the plan phases that have been completed, describing activities conducted and findings resulting from the work. Within 30 days of completion of the site cleanup, respondent shall submit to the Department a final report and signed statement, certified and stamped by a professional engineer licensed by the State of New York, that the work was done in a manner required by the work plan. Respondent shall submit, with this documentation, receipts for disposal of waste, confirming that all contaminated soils, sorbents, and screened materials were transported by a licensed waste hauler to a Department-approved disposal facility as determined appropriate by sample results.

IX. Staff's motion for leave to serve an amended complaint correcting the address of respondent's business as set forth in paragraph "3" of the complaint is granted. Since respondent has not opposed this branch of the motion, paragraph "3" of the complaint is hereby deemed amended to state that respondent's address is: 1009 Lower South Street in the Town of Peeksill, Westchester County, New York. Respondent is not granted leave to serve an amended answer.

X. All communications from the Respondent to the Department in this matter, including the payment of the penalty, shall be made to Jennifer David Hesse, Assistant Regional Attorney, New York State Department of Environmental Conservation, Region 3, 21 South Putt Corners Road, New Paltz, New York, 12561-1696.

XI. The provisions, terms and conditions of this Order shall bind respondent, his agents, servants, employees, successors and assigns and all persons, firms and corporations acting for or on his behalf.

For the New York State Department of Environmental Conservation

/s/
By: Erin M. Crotty, Commissioner

DATED: Albany, New York
June 16, 2003

TO: Jennifer David Hesse, Esq.
NYSDEC Region 3 - Division of Legal Affairs
21 South Putt Corners Road
New Paltz, New York 12561-1696

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L & L Scrap Metals
1009 Lower South Street
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Kathleen M. Riedy, Esq.
285 Grand Street
Croton-on-Hudson, New York 10520

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway
Albany, New York 12233-1550

In the Matter

- of -

Alleged Violations of the Environmental Conservation Law ("ECL") Articles 17, 27 and 71; Title 6 of the Compilation of Codes, Rules and Regulations of the State of New York; and Article 12 of the Navagation Law of the State of New York, by

RICHARD LOCAPARRA
d/b/a L&L SCRAP METALS,

Respondent

DEC Case No. 3-20000407-39

HEARING REPORT

- by -

/s/
Edward Buhrmaster
Administrative Law Judge

August 7, 2002

PROCEEDINGS

Department of Environmental Conservation Staff initiated this action with a notice of hearing and complaint, dated May 2, 2001. The Respondent, Richard Locaparra, filed an answer dated May 18, 2001. By papers dated November 20, 2001, Department Staff moved for a summary order with regard to all three of the complaint's causes of action. After a deadline extension to which Department Staff consented, a timely response to the motion, dated January 9, 2002, was filed by the Respondent.

On February 19, 2002, I discussed the pending motion with counsel for the parties: Region 3 assistant attorney Jennifer David Hesse for Department Staff, and Kathleen M. Riedy of Croton-on-Hudson for the Respondent. Subsequent efforts by the parties to settle this matter were unsuccessful, and I had a second call with the parties' lawyers on June 6, 2002. After another unsuccessful attempt at settlement, Department Staff advised me in writing on June 20, 2002, that it was seeking a decision on the pending motion.

POSITIONS OF THE PARTIES

Position of Department Staff

Department Staff claims it is entitled to a summary order on the three causes of action in its complaint. These causes of action stem from observations made at the Respondent's automobile dismantling and crushing facility, L & L Scrap Metals, at 1009 Lower South Street in Peekskill,Westchester County. The first cause of action is that the Respondent, in operation of the site, discharged waste automotive fluids, including oil and gasoline, from a car crusher into the waters of the state in violation of Environmental Conservation Law ("ECL") Section 17-0501 and Section 703.6 of Title 6 of the New York Codes, Rules and Regulations (6 NYCRR 703.6). The second cause of action is that the discharge was done without a State Pollutant Discharge Elimination System ("SPDES") permit, in violation of ECL Section 17-0803 and 6 NYCRR 751.1. The third cause of action is that the discharge of petroleum (consisting of oil and gasoline) without a permit was done in violation of Article 12, Section 173 of the state's Navigation Law. The discharges are alleged to have occurred on March 14 and 20, 2000.

Asserting that site cleanup still remains to be completed, Department Staff wants the Respondent to implement a remedial work plan previously submitted on his behalf and approved by Staff, that will assure the proper removal of contaminated soil. Department Staff also requests assessment of a One Hundred Ten Thousand Dollar ($110,000) penalty: Ten Thousand Dollars ($10,000) payable after issuance of the Commissioner's order, and payment of the remainder permanently suspended provided that the Respondent takes steps identified by Staff to properly clean up the site and prevent future pollution from his business operations.

Position of Respondent

The Respondent's answer denied the allegations in the complaint and asserted no affirmative defenses. In response to Department Staff's motion for summary order, the Respondent claimed that no evidence had been submitted that he took any action - - unlawful or otherwise - - on March 20, 2000, one of two dates of the alleged violations, and March 22, 2000, the date he was ticketed by a Department Environmental Conservation Officer ("ECO"). With regard to alleged violations on March 14, 2000, the Respondent claimed the motion should be denied since it is based on a criminal conviction that was being appealed at the time the answer was filed. The Respondent also claimed that Department Staff was misinformed about the substantial site clean-up work he had performed in October 2001. Therefore, he claimed, to the extent Department Staff's motion is premised upon current site conditions, it should be denied because there is a genuine issue of material fact related to the cleanup effort.

Amendment of Complain

Department Staff's complaint indicated incorrectly that the L & L Scrap Metals automobile dismantling and crushing facility is in Harrison, New York, rather than in Peekskill. In moving for a summary order, Staff sought to amend the complaint to correct this inaccuracy, which it attributed to a clerical error.

The Respondent did not object to the complaint's amendment, and therefore the motion to amend the complaint is hereby granted.

FINDINGS OF FACT

1. On March 14, 2000, Scott M. Daly, a Department ECO, responded to a complaint regarding an oil spill at L & L Scrap Metals, 1009 Lower South Street in Peekskill. On the premises he observed used tires, batteries, scrap metal, junked cars, scrapped cars, used hot water heaters and other scrap metals. He also noticed a large area surrounding the car compactor that was contaminated by petroleum products. The soil had a black appearance and a strong petroleum odor.
2. ECO Daly then met with Richard P. Locaparra, who identified himself as owner of the premises, and together they inspected the site conditions. ECO Daly told Mr. Locaparra that no more oil was to be released to the ground.
3. John O'Dee, an environmental engineering technician in the Department's spill prevention and response bureau, also came to the site on March 14, 2000. Mr. O'Dee noticed extensive contamination from petroleum and other automotive waste products on the surface of the soil and on ponded surface water. He also observed many puddles of free product on the ground.
4. Mr. O'Dee determined that the contamination stemmed from operation of a car crushing operation without secondary containment, meaning that automotive waste fluids had not been contained for proper disposal. The lack of secondary containment allowed these fluids to flow freely onto the surrounding soil.
5. During his March 14 inspection, Mr. O'Dee informed Mr. Locaparra that he must stop the car crushing operation immediately and not resume in the absence of secondary containment. Mr. O'Dee also told Mr. Locaparra that he must begin cleanup of the contaminated surface water and soil as soon as possible and that he would be contacted by the Department's Division of Water with follow-up directives.
6. On March 22, 2000, ECO Daly again met with Mr. Locaparra at the site, issuing him two tickets which were the subject of a trial in Peekskill City Justice Court in August, 2001.
7. On August 9, 2001, as a result of the trial, Mr. Locaparra was found guilty of endangering public health, safety or the environment in the fifth degree, a Class "B" misdemeanor, in violation of ECL Section 71-2710. More particularly, it was found that on or about March 14, 2000, with criminal negligence, he engaged in conduct which caused the release of more than 50 gallons or 50 pounds, whichever is less, of an aggregate weight or volume of a substance hazardous to the public health, safety or environment.
8. As a result of the trial, Mr. Locaparra was also found in violation of ECL Section 17-0501, which makes it unlawful for any person, directly or indirectly, to throw, drain, run or otherwise discharge into the waters of the state organic or inorganic matter that shall cause or contribute to a condition in contravention of the Department's standards for water quality and purity. This violation, an unclassified misdemeanor pursuant to ECL Section 71-1933(1), also occurred on or about March 14, 2000, and also was attributed to the Respondent's criminal negligence.
9. Mr. Locaparra was sentenced to one year of probation, to expire on November 13, 2002, by which date, the court ordered, he is to complete a site cleanup. Mr. Locaparra was also ordered to pay a fine of Seventeen Thousand Five Hundred Dollars ($17,500) to the court by June 10, 2002.

10. By court order, Mr. Locaparra's time to perfect an appeal of his conviction was extended to February 1, 2002. However, the appeal has not been perfected, so there is no possibility of the conviction now being overturned.
11. Department Staff has approved a remedial work plan, dated March 5, 2001, which was prepared on behalf of Mr. Locaparra by Ira D. Conklin & Sons of Newburgh. The plan addresses the removal of petroleum and low-level PCB contaminated soils from defined surface and subsurface locations at the L & L Scrap Metals facility. It involves excavating contaminated soils down to the bedrock shelf, or until acceptable soils are encountered.
12. According to the remedial work plan, site activities were scheduled to begin in May 2001. As of September 25, 2001, when the site was visited by John O'Mara, a Department spills engineer, the surface cleanup outlined in the remedial plan had begun.
13. As of June 6, 2002, when I had my last conference call with the parties' lawyers, site remediation had not yet been completed.

DISCUSSION

A motion for summary order - - referred to in the Department's regulations as a motion for order without hearing - - will be granted if, upon all the papers and proof filed, the cause of action or defense is established sufficiently to warrant granting summary judgment under the Civil Practice Law and Rules (CPLR) in favor of any party [6 NYCRR 622.12(d)]. CPLR Section 3212 addresses motions for summary judgment; such motions are granted where a court finds there is no substantial issue of fact in the case and therefore nothing to try.

This case involves three causes of action. All three stem from the alleged discharge of waste automotive fluids, including oil and gasoline, at L & L Scrap Metals, which is owned by the Respondent, Mr. Locaparra. There is no triable issue with regard to liability for the charged violations, nor are there triable issues of fact bearing on the relief to be granted. Therefore, no hearing is required.

Liability for Violations

Of the three causes of action, liability has been established for the first and third, but only with regard to violations occurring on March 14, 2000.

The first cause of action is that the Respondent's discharge of waste automotive fluids was in violation of ECL Section 17-0501 and 6 NYCRR 703.6. ECL Section 17-0501 forbids any discharge causing contravention of the state's water quality standards, and 6 NYCRR 703.6 sets effluent limitations for discharges to fresh groundwater, including maximum allowable concentrations for oil and benzene.

The violation of ECL Section 17-0501 is established adequately by the Respondent's conviction after trial on the same charge in the related criminal proceeding. The standard of proof in a criminal trial (beyond a reasonable doubt) is higher than it is in an administrative hearing (the preponderance of evidence), so there is no question as to whether that standard has been met here.

The third cause of action is that the Respondent violated Article 12, Section 173 of the Navigation Law, which prohibits the discharge of petroleum. Even though this violation was not charged in the criminal action, it is adequately demonstrated by the affidavits of Scott Daly and John O'Dee, which are part of Staff's motion papers. On March 14, 2000, ECO Daly noted the black appearance of the soil around the car compactor and the soil's strong petroleum odor. Also on March 14, spills engineering technician O'Dee noted the extensive contamination from petroleum and other automotive waste products on the soil surface and on ponded surface water. The Respondent has provided no affidavits or other

evidence contradicting Staff's description of the site on that date. Therefore, there is no substantive dispute of facts sufficient to require a hearing pursuant to 6 NYCRR 622.12(e).

A prohibited discharge under Navigation Law Section 173 includes "any intentional or unintentional action or omission resulting in the releasing, spilling, leaking, pumping, pouring, emitting, emptying or dumping of petroleum into the waters of the state or onto lands from which it might flow or drain into said waters." [See definition of "discharge" at Navigation Law Section 172(8).] Also, the "waters" of the state include both bodies of surface and groundwater, whether natural or artificial. [See definition of "waters" at Navigation Law Section 172(18).]

Department Staff did not prove that the petroleum discharge on March 14, 2000, was the result of an intentional act on the part of the Respondent, or that the discharge reached any particular ground or surface water feature, including the Hudson River, which, according to the Respondent's remedial work plan, is a quarter of a mile from the L & L Scrap Metals property. However, such proof is not necessary to prove the Navigation Law violation, since it is enough that the discharge resulted from the Respondent's failure to provide secondary containment, and that the discharge could have contaminated the waters of the state, whether or not it actually did. Courts have taken judicial notice that even when there is "nothing in the record to positively demonstrate" that spilled oil might have flowed through the ground into groundwater, or the nature and extent of the resulting harm, "judicial notice can be taken of the common knowledge that oil can seep through the ground into surface and groundwater . . . and thereby cause ecological damage." [See Merrill Transport Co. v. State, 94 A.D.2d 39, 464 (3d Dept., 1983).]

Navigation Law Section 173 does not apply to discharges of petroleum pursuant to and in compliance with the conditions of a federal or state permit. However, the Respondent has not asserted that he had any permit authorizing the discharge observed on March 14, 2000. Had such a permit existed, one would expect this to have been raised by way of an affirmative defense to Department Staff's charge. Because no affirmative defenses were pled by the Respondent, and because the Respondent did not otherwise attempt to raise the exemption for permitted discharges, Staff's motion may be granted with regard to the third cause of action.

The second cause of action is that the Respondent discharged pollutants to the state's waters from an outlet or point source without a SPDES permit, in violation of ECL Section 17-0803 and 6 NYCRR 751.1. Though the lack of a permit is an element of the cause of action, Department Staff produced no evidence that a permit did not exist. Typically, the lack of a permit is demonstrated by an affidavit or testimony of a Department employee who is the custodian of the permit files or, at the least, has reviewed those files to see if a permit has been issued. It is doubtful that the Department would issue a permit for the type of discharge described in Staff's affidavits. Even so, the lack of a permit is key to the prima facie case that Staff has the burden to establish, and the absence of evidence on this point means that the motion for order without hearing must be denied with regard to the second cause of action.

Dates of Violation

While the first and third causes of action are demonstrated in relation to the March 14, 2000 date, separate violations cannot be established for March 20, 2000, the second date identified in Staff's complaint. That a discharge occurred on March 14 is evidenced by Department Staff's affidavits describing blackened soil, a strong petroleum odor, and puddling of petroleum product on that date, even though the act of discharge was not observed. However, while these affidavits provide a vivid description of site conditions on March 14, Staff has provided no evidence regarding site conditions on March 20, and, as the Respondent's counsel argues, there is nothing to suggest that Mr. Locaparra did

anything unlawful on that date. In fact, Department Staff's affidavits indicate that on March 14, 2000, the Respondent was told to stop his car crushing operations immediately until secondary containment could be implemented, and to release no more oil onto the ground. If the Respondent did not comply with these instructions, there is no evidence to that effect.

The Respondent is also correct that there is no evidence of a separate violation on March 22, 2000, the date he was ticketed by the ECO. However, while the preface to the complaint alleges that on that date - - as well as on March 14 and March 20 - - Department Staff observed that the Respondent had discharged waste automotive fluids, none of the three causes of action reference March 22. Because the causes of action reference only March 14 and 20, the Respondent's point about March 22, while accurate, is not relevant to the issue of liability.

Appeal of Criminal Convictions

Counsel for the Respondent answered the motion by arguing that Department Staff is relying on a criminal conviction that, at the time the answer was filed, was subject to appeal. However, as the Respondent's counsel acknowledged in a subsequent conference call I conducted, the appeal was not perfected, which eliminates any problem the Department might have in relying on the conviction to support its first cause of action.

Site Cleanup

The Respondent claims that Department Staff has not accounted for substantial site cleanup that he performed in October 2001, after the last visit referenced in Staff's affidavits, and argues that to the extent Staff's motion is premised upon current site conditions, it should be denied because there is a genuine issue of fact related to the clean-up effort.

In a letter to the criminal court on November 5, 2001, the Respondent's counsel argued that Mr. Locaparra had been making diligent and good faith efforts to remove the contaminated soil from his property as quickly as possible. She attached to the letter manifests confirming that tons of contaminated soil had been shipped to the Albany city landfill at a cost of about Nine Thousand Dollars ($9,000). The letter and attachments were submitted as part of the Respondent's answer to Department Staff's motion.

As of June 6, 2002, the date of my last conference call with the parties' counsel, there was agreement that the site had been only partially remediated; in other words, the work had not been completed. On June 20, 2002, Department counsel informed me that on June 10, 2002, the remedial work Staff is seeking had been incorporated into the terms of the Respondent's probation. Staff counsel also said that Mr. Locaparra was proceeding with that work and his consultant had already submitted technical documents for Staff's review.

Regardless of what the Respondent has done to clean up the site, it does not bar granting summary judgment in favor of Staff on the first and third causes of action, because those causes of action are based on past violations of law, not current site conditions. On the issue of relief, it is not necessary to know how far site cleanup has progressed if the goal of the Department is simply to see that the cleanup is completed. As discussed below, a timely completion of the site's remediation can be ordered by the Commissioner and tied to the permanent suspension of payment of any civil penalties that are assessed in this matter. This would help induce the Respondent to complete corrective actions that at any rate are now required under terms of his probation. As noted above, Department Staff has already approved a remedial work plan, dated March 5, 2001, that was submitted on the Respondent's behalf, and that plan can be referenced in any order that is issued by the Commissioner.

Civil Penalties

For the first cause of action, violation of ECL Section 17-0501, the Respondent may be held liable for a civil penalty not to exceed Twenty-Five Thousand Dollars ($25,000) per day pursuant to ECL Section 71-1929(1). Also, for the third cause of action, violation of Navigation Law Section 173, the Respondent may be held liable for a penalty of up to Twenty-Five Thousand Dollars ($25,000) for each offense, pursuant to Navigation Law Section 192.

During a conference call I had with the parties' counsel, Department Staff said that its recommended One Hundred Ten Thousand Dollar ($110,000) penalty could be supported on the theory that the violations continued from day to day, each day constituting a separate, distinct offense. However, as the Respondent's counsel pointed out, the Department's papers provide no notice of such a theory; in fact, in the complaint and the motion for summary order, each of the three causes of action are tied to two separate, non-consecutive dates (March 14 and 20), suggesting that the violations on March 14 did not continue into the next day, but recurred again six days later. The nature of the violations charged - - which involve the discharge of a substance into the environment -- cannot be deemed to continue from day to day without some evidence (absent from this case) that the discharge itself was of a continuing nature. Again, the only evidence of a discharge is based on observations made on March 14, 2000, at which point the Respondent was directed to stop the discharge immediately.

While the first and third causes of action together arguably could warrant a Fifty Thousand Dollar ($50,000) civil penalty, it is not clear whether, as a matter of law, such a penalty can be assessed in this proceeding. That is because Section 192 of the Navigation Law provides that any person who violates any of the provisions of Article 12 of that law (which includes Section 173) "shall be liable to" a penalty of not more than Twenty Five Thousand Dollars ($25,000) for each offense "in a court of competent jurisdiction." This language has been subject to conflicting interpretations by the Department. On the one hand, it has been read to the effect that "[n]o civil penalties can be assessed in an administrative proceeding for violations of the Navigation Law." [See In the Matter of James Wiese, page 9 of the Hearing Report of ALJ Andrew Pearlstein, adopted by the Commissioner in a decision and order dated May 21, 1992.] On the other hand, it has been read to mean just the opposite: that the Commissioner may assess penalties for violations of the Navigation Law, and in the event they are not paid, the Commissioner may proceed to court to recover them. [See In the Matter of the City of Hudson Industrial Development Agency et al., page 5 of Rulings of ALJ Frank Montecalvo dated August 24, 1998, dismissing an affirmative defense that the Department lacks legal authority to impose civil penalties pursuant to Navigation Law. In this case, the ALJ said Navigation Law Section 192 had to be read and construed with Navigation Law Section 200(1), which provides that an action to recover a penalty "may be brought in any court of competent jurisdiction in this state on order of the Commissioner." This statutory language was recently interpreted as suggesting that "an action to recover certain penalties under the Navigation Law can be based, in the first instance, on an order of the Commissioner determining the amount of such penalty." See In the Matter of Amerada Hess Corporation, page 8 of ALJ Richard Wissler's Ruling on Motion to Clarify Affirmative Defenses, dated February 22, 2002, which references ALJ Montecalvo's ruling.]

Though there is disagreement whether, as a matter of law, the Commissioner may assess a penalty for the third cause of action, I find that assessing a penalty for that cause of action in addition to a penalty for the first cause of action would not be appropriate in this case. That is because both causes of action are the product of the same illegal act, which is the discharge of waste automotive fluids onto the facility property. Therefore, for penalty assessment purposes, the two causes of action should be considered redundant of each other, and a penalty of up to Twenty-Five Thousand Dollars ($25,000) may be assessed for the first cause of action - - violation of the Environmental Conservation Law - -

without reaching the question of whether the Commissioner may assess a penalty for the third cause of action - - violation of the Navigation Law - - in this administrative proceeding.

According to the Department's civil penalty policy, Department Staff should provide an explanation for the penalty amount requested, with reference to the potential statutory maximum, the penalty policy itself, any program-specific guidance document, other similar cases, and, if relevant, any aggravating and mitigating circumstances which Department Staff considered. Staff did not provide any such explanation in this case, except to say that its requested penalty is "entirely reasonable" in light of its view of the facts of the case (though no particular facts were specified) and its determination of the statutory maximum penalty that could be assessed. As noted above, I consider Staff's requested penalty to be beyond the statutory maximum penalty that can be assessed in view of what was charged and proved in the motion papers.

Staff's failure to provide an adequate explanation for its requested penalty does not prevent me from making my own recommendation based on the civil penalty policy and certain undisputed facts that are relevant to penalty assessment. For instance, it is established through the criminal conviction that the violation of the ECL was due to the Respondent's criminal negligence, meaning that he failed to perceive a substantial and unjustifiable risk associated with his conduct, constituting a gross deviation from the standard of care a reasonable person would observe in his situation. [See definition of "criminal negligence" in Penal Law Section 15.05]. While it would be more serious if the violation was due to knowing or intentional conduct, the Respondent's criminal negligence still warrants assessment of some penalty, given the control he exercised over site activities and the foreseeability of groundwater contamination in the absence of secondary containment of waste fluids.

Assessment of some penalty is also warranted given the economic benefit the Respondent accrued from operating a car crushing business in the absence of secondary containment. Unfortunately, the amount of that benefit cannot be quantified because proof necessary to do so is absent from Staff's motion papers. There is no evidence even as to how long the Respondent was operating without secondary containment, though, because the violations were incidental to the conduct of his business, one can presume that petroleum and other automotive waste products were being released to the environment for some period before Department Staff, answering a complaint about an oil spill, came to the site on March 14, 2000.

Under the circumstances of this case, I recommend an assessed civil penalty of Seven Thousand Five Hundred Dollars ($7,500), to be assessed in relation to the first cause of action. This recognizes that the Respondent's conduct, while criminally negligent, was not demonstrated to be knowing or intentional, and that the Respondent was able to secure at the least some modest economic benefit by failing to install secondary containment. While there is some demonstration of environmental harm due to soil contamination, there is no indication that the contamination extended beyond the site and cannot be fully remediated. The lack of severe or irremediable environmental harm should be accounted for in the penalty assessment, on the understanding that, in general, maximum penalties should be reserved for the most serious violations of the ECL.

While an assessed penalty of Seven Thousand Five Hundred Dollars ($7,500) is appropriate in this case, it is also warranted to permanently suspend penalty payment provided that the Respondent completes a timely remediation of the site and takes appropriate steps, identified in DEC Staff's motion papers, to prevent future pollution from his business operations.(The particulars of Staff's requests on these points are contained in an affidavit of Department spills engineer John O'Mara.) The Respondent's meeting these goals - - timely remediation and prevention of future violations - - should be the Department's key concern at this point, given that the Respondent already has been punished

criminally for his behavior. Payment of additional penalties regardless of whether timely remediation occurs would not account for the fact that the Respondent already has been fined Seventeen Thousand Five Hundred Dollars ($17,500) for his wrongdoing and has incurred significant costs to remove contaminated soil from his property. Though Department Staff indicates that the Respondent, as part of his probation, is already proceeding with the compliance action Department Staff is seeking, connecting that action to the permanent suspension of the assessed civil penalty provides some additional inducement for the Respondent to get the work done.

Department Staff also proposes that the Respondent be directed to remediate the site as an independent obligation under any order the Commissioner may issue. While Staff requests that such work be done "pursuant to applicable provisions of the ECL," no particular provisions have been cited, and I find none that would authorize what Staff is seeking. On the other hand, there is apparent authority under Navigation Law Section 176(2)(a), which provides that upon the occurrence of a discharge of petroleum, the Department may either clean up and remove the discharge itself "or may, at its discretion, direct the discharger to promptly cleanup and remove the discharge."

Requiring timely remedial action under a Commissioner's order opens the door to additional civil penalties if the order is violated. Such penalties could be sought in an administrative action, freeing the Department from having to seek relief in the context of the criminal proceeding.

Disposition of Second Cause of Action

As discussed above, the motion for order without hearing must be denied with regard to the second cause of action because Department Staff did not provide evidence that the Respondent lacked a SPDES permit. Assuming the Department has such evidence, this defect could be cured by remanding this cause of action for a hearing. However, to do so would be wasteful if proving the charge would not warrant additional relief beyond what is recommended in this report.

The second cause of action stems from the same illegal act as the first and third causes of action, and, as with those causes of action, the Respondent may be held liable for a penalty not to exceed Twenty-Five Thousand Dollars ($25,000) upon proof of the violation. If, as I argue, separate penalties are not appropriate for the first and third causes of action, a separate penalty for the second cause of action is similarly unwarranted. To avoid a hearing that at this point would be pointless in terms of supplementing the appropriate relief, I recommend that the second cause of action be dismissed so the Commissioner can now issue a final order concluding this matter.

CONCLUSIONS

1. On March 14, 2000, the Respondent, in operation of his automobile dismantling and crushing facility, L & L Scrap Metals, at 1009 Lower South Street in Peekskill, New York, discharged waste automotive fluids, including oil and gasoline, from a car crusher into the waters of the state, in violation of ECL Section 17-0501.
2. Also on this date, the Respondent, in operation of the facility, discharged petroleum (consisting of oil and gasoline) to the environment in violation of Section 173 of the Navigation Law.
3. Department Staff is entitled to summary judgment on these violations, which are stated in the first and third causes of action in its complaint.
4. Department Staff has not established a prima facie case for its second cause of action alleging discharge without a SPDES permit in violation of ECL Section 17-0803 and 6 NYCRR 751.1. That cause of action warrants dismissal, though if it is not dismissed, it should be the subject of a hearing.

5. Also warranting dismissal are all allegations of separate violations occurring on March 20, 2000, since there is no evidence to support them.
6. In its prayer for relief, Department Staff has requested an order directing that the Respondent be found in violation of Articles 17 and 27 of the ECL, as well as Article 12 of the Navigation Law. No violation of ECL Article 27, or of the regulations promulgated pursuant thereto, has been alleged, let alone established.

RECOMMENDATIONS

I make the following recommendations in this matter:

Site Remediation

The Commissioner should order the Respondent to undertake steps recommended by Department Staff to complete remediation of his property, based on authority in Navigation Law Section 176(2)(a).

More particularly, consistent with the terms of his criminal probation, the Respondent should be directed to complete a site cleanup by November 13, 2002. This cleanup should be done in accordance with the requirements of the Respondent's remedial work plan dated March 5, 2001, which has been approved by Department Staff.

Within 30 days of receipt of a Commissioner's order, the Respondent should submit an interim report identifying the plan phases that have been completed, describing activities conducted and findings resulting from the work. Within 30 days of completion of the site cleanup, the Respondent should submit to the Department a final report and signed statement, certified and stamped by a professional engineer licensed in New York, that the work was done in a manner required by the work plan. The Respondent should submit with the certification receipts for disposal of waste confirming that all contaminated soils, sorbents, and screened materials have been transported by a licensed waste hauler to a Department-approved disposal facility as determined appropriate by sample results.

Civil Penalty

The Respondent should also be assessed a civil penalty of Seven Thousand Five Hundred Dollars ($7,500) in relation to the first cause of action, pursuant to ECL Section 71-1929(1). However, payment of that penalty should be permanently suspended provided that the Respondent completes the site cleanup by November 13, 2002, and, within 30 days of service of an order in this matter, undertakes the following steps recommended by Department Staff to prevent future pollution:

1. Institution, implementation and provision to the Department of copies of company policies and procedures that are designed to ensure compliance with the ECL;
2. Registration and protection with secondary containment, as appropriate, of all petroleum bulk storage tanks on the site, or appropriate disposal of such tanks off site; and
3. Preparation and submission of a comprehensive pollution prevention plan for the site, addressing the handling and management of fluids and waste at the site pursuant to the ECL and the Automotive Recyclers Association Storm Water Guidance Manual dated September 1996.

Consistent with Department Staff's recommendation, unless and until appropriate structures are approved by the Department and implemented by the Respondent, the Commissioner should insist that the Respondent deny site access to any salvage vehicles or parts containing liquids and not use the site for automobile dismantling or crushing. Proposals for appropriate structures should include plans and specifications for handling and storage of parts containing fluids, storage of waste fluid and waste

fluid containers, and construction of impervious and protected pads and containment areas suitable for vehicle dismantling and/or crushing.

Endnotes

[1] Friends of Animals v Associated Fur Mfrs., Inc., 46 NY2d 1065, 1067 (1979).

[2] See Alvarez v Prospect Hospital, 68 NY2d 320, 324 (1986).

[3] See Hanson v Ontario Milk Producers Coop., Inc., 58 Misc 2d 138, 141-142 (Sup Ct, Oswego County 1968).

[4] See Kuehne & Nagel, Inc. v Baiden, 36 NY2d 539, 544 (1975).

[5] See CPLR 3212(c).

[6] See 6 NYCRR 622.12(f).

[7] See CPLR 3212(e); 6 NYCRR 622.12(d).

[8] See S.T. Grand, Inc. v City of New York, 32 NY2d 300 (1973).

[9] See Gilberg v Barbieri, 53 NY2d 285, 291 (1981).

[10] See CPLR 3212(b).

[11] NYSDEC, Civil Penalty Policy, IV(1), June 20, 1990.

[12] See id.

[13] For similar reasons, I reject the ALJ's conclusion that any "redundancy" provides a basis for dismissing the second cause of action.

00-10387

New York State Department of Environmental Conservation
Region Three — Division of Legal Affairs
21 South Putt Corners Road, New Paltz, New York 12561-1696
Phone: (845) 256-3032 FAX: (845) 255-3042
Website: www.dec.state.ny.us

John P. Cahill
Commissioner

March 12, 2001

BY FIRST CLASS MAIL

Gardiner Barone, Esq.
Law Offices of Gary Greenwald
99 Brookside Avenue
Chester, New York 10918

Re: Richard Locaparra, d/b/a, L & L Scrap Metals
DEC Case No. 3-20000407-39

Dear Counselor Barone:

In April 2000 the Department provided your client, Richard Locaparra, d/b/a, L & L Scrap Metals, with the opportunity to enter into an Order on Consent with the Department to resolve certain violations at your client's facility. The Order would include a civil penalty and a schedule of compliance detailing the investigative and remedial actions required to bring the facility into compliance with New York State's Environmental Conservation Law.

Despite repeated requests, the Order on Consent has been ignored by your client. However, recently the Department received and approved a Remedial Work Plan submitted by Ira D. Conklin & Sons, Inc., on behalf of your client.

While the Department Staff appreciate that your client is moving forward with the investigative and remedial actions required at this site, the Order on Consent nevertheless remains outstanding.

Accordingly, I've enclosed a clean copy of the Order on Consent for your client's signature. The Order has been revised to reflect, among other things, that the Remedial Work Plan has been submitted and approved. Furthermore, the suspended penalty has been increased as a result of the unnecessary delay.

The executed consent order — together with a certified check or money order in the amount of ten thousand ($10,000.00) dollars, payable to the NYS Department of Environmental Conservation, is due on April 2, 2001. Should I not receive these consent orders by April 2, 2001, the Department will deem the consent order rejected by your client, and this offer will be withdrawn.

Please be advised that if your client rejects this consent order, the Department may initiate an enforcement action and may seek the full penalty amount provided by law.

Thank you for your anticipated cooperation.

Respectfully,

Dominic Cordisco
Regional Attorney

bcc: ADA Eric Belfi
Westchester County District Attorney's Office
111 Dr. Martin Luther King, Jr. Boulevard
White Plains, New York 10601

Cesare Manfredi
John O'Mara
John O'Dee
File
Chron

STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of the Alleged Violations of Article 17 of the Environmental Conservation Law of the State of New York, Article 27 of the ECL and Article 71, Title 27 of the ECL, and Article 12 of the Navigation Law of the State of New York, by

Richard Locaparra, d/b/a, L & L Scrap Metals

Respondent.

CONSENT ORDER

Case No.
3-20000407-39

WHEREAS,

1. Pursuant to Article 17, Title 3 of the Environmental Conservation Law of the State of New York (the "ECL") the New York State Department of Environmental Conservation (the "Department") has jurisdiction to abate and prevent the pollution of waters of the state; pursuant to Article 27, Title 1, of the ECL, the Department has jurisdiction over solid waste management including the collection, treatment and disposal of solid and hazardous waste; and pursuant to Article 12 of the Navigation Law of the State of New York, the Department has jurisdiction to prevent the unregulated discharge of petroleum which may result in damage to the lands, waters, and natural resources of the state.

2. The Department also has the power to provide for the prevention and abatement of all water, land, and air pollution. ECL Article 3.

3. Respondent, Richard Locaparra d/b/a/ L & L Scrap Metals at 1009 Lower South Street, Peekskill NY 10566, operates an automobile dismantling and crushing facility located at 51 Oakland Avenue, Harrison, New York, County of Westchester, State of New York (the Site"), and

4. Pursuant to ECL Sec. 17-0803, it is unlawful to discharge pollutants to the waters of the State from any outlet or point source in a manner other than as prescribed by a SPDES permit issued pursuant to ECL Article 17, Title 8.

5. Pursuant to ECL Sec. 17-0501, it is unlawful for any person, directly or indirectly, to throw, drain, run or otherwise discharge into such waters organic or inorganic matter that shall cause or contribute to a condition in contravention of the standards adopted by the department pursuant to section 17-0301.

6. On or about March 14 and March 20, 2000, Respondent, in the operation of the Site, discharged waste automotive fluids from a car crusher without a SPDES permit into the waters of

the State in violation of Sections 17-0501 and 17-0803 of the ECL. Section 71-1929 of the ECL provides for a civil penalty for certain violations of Article 17 of the ECL of not more than twenty-five thousand dollars per day of violation.

7. On or about March 14 and March 20, 2000, Respondent, in the operation of the Site, was found to have discharged petroleum in violation of Article 12, Section 173 of the Navigation Law of the State of New York. Section 192 of said Navigation Law provides for a civil penalty of not more than twenty-five thousand dollars per day of violations of said Article 12.

8. Respondent, having waived Respondent's right to notice and hearing herein as provided by law, and having consented to the issuance and entry of this Notice and Order, agrees to be bound by its terms, provisions and conditions. Respondent consents to and agrees not to contest the authority or jurisdiction of the Department to issue or enforce this Order, and agrees not to contest the validity of this Order or its terms.

NOW THEREFORE, HAVING CONSIDERED THIS MATTER AND BEING DULY ADVISED, IT IS ORDERED THAT:

I. Civil Penalty. A Civil Penalty in the amount of $10,000.00 is hereby assessed against Respondent; $3,000.00 shall be paid upon Respondent's execution of this Order. The balance of the assessed penalty is hereby suspended upon condition that Respondent remain in compliance with each term, provision and condition of this Order, and shall be due within 10 days of notification by the Department that Respondent has failed to comply with the terms of this Order. Neither the Department's demand for payment of a suspended penalty, nor Respondents' payment thereof, shall discharge Respondents from the obligation to comply with any obligation established under this Order.

II. Failure to make penalty payment.

(A) In the event that the Respondents fail to pay any penalty due pursuant to this Order by the date due, this Order together with a notice of noncompliance specifying the amount due may be filed and enforced by DEC as a civil judgment for the total penalty amount set forth in the notice of noncompliance, in the State of New York and in any other jurisdiction in which Respondents may reside, do business or have any assets, without the need for any further proceedings whatsoever.

(B) With regard to any penalty due pursuant to this Order which is not paid by the specified due date, Respondents shall be liable for and shall pay interest from the due date at the rate specified by the New York Civil Practice Law and Rules for interest on a judgment.

III. Stipulated Penalties.

(A) In the event that Respondent fails to comply with any of the requirements established by this Order or the attached schedule of compliance, including the Investigation Work Plan and

Investigation Report and Remedial Plan required by this Order, the following stipulated penalties shall be due and payable:

PERIOD OF NONCOMPLIANCE	PENALTY PER DAY
1st day through 10th day	$ 25.00
11th day through 20th day	$ 50.00
21st day through 30th day	$ 75.00
each day thereafter	$ 100.00

(B) In the event that the Department determines that Respondent has violated any provision of this Order, the Department may serve upon the Respondent a notice of noncompliance which shall set forth the nature of the violation(s) and the calculation of penalties due. Respondent shall deliver the full penalty amount to the Department within ten (10) business days after receipt of such notice. Neither the Department's demand for payment of a stipulated penalty, nor Respondent's payment thereof, shall discharge Respondent from the obligation to comply with any obligation established under this Order. The assessment of penalties as set forth above shall not limit the Department's right to seek such other relief as may be authorized by law.

IV. Schedule of Compliance. Respondent shall strictly comply with the terms of this Order and with the attached Schedule of Compliance which is a part of this Order, including any report (s), plan (s), proposal(s) and other submissions made pursuant thereto. All such submissions are hereby deemed incorporated and made a part of this Order, upon approval by the Department if such approval is required, and shall be fully enforceable as part of this Order. All references herein to the terms "Order" shall be deemed to include the attached Schedule of Compliance.

V. Submission of reports. Unless otherwise stated in this Order, all reports, submissions, and notices herein required shall be made pursuant to the Schedule of Compliance which is attached hereto and made a part of this Order. The Department reserves the right to change this provision upon notice to the Respondent. All submissions required of the Respondent pursuant to this Order and the Schedule of Compliance pertaining to a Remedial Plan or a Pollution Prevention Plan must be approved by a professional engineer licensed in the State of New York pursuant to Article 145 of the Education Law of the State of New York and bear his or her professional seal.

VI. Review of submissions. After the Department's receipt of any Proposal (required pursuant to this Order or the attached Schedule of Compliance), the Department shall notify Respondents, in writing, of its approval or disapproval of the Proposal. If the Department approves the Proposal, Respondents shall implement it in accordance with its schedule and terms, as approved. If the Department disapproves the Proposal, the Department shall provide to Respondents written notice of its disapproval, specifying with reasonable particularity the grounds for disapproval. Within 20 days after Respondents receive written notice of disapproval, Respondents shall submit a Revised Proposal which fully responds to each of the Department's specified grounds for disapproval. After the Department's receipt of Respondents' Revised Proposal, the Department shall notify

Respondents, in writing, of its approval or disapproval. If the Department approves the Revised Proposal, Respondents shall implement it in accordance with its schedule and terms, as approved. If the Revised Proposal is not approvable as submitted, the Department, at its option, may disapprove it or may approve it on condition that Respondents accept such modifications as may be specified by DEC to make it approvable. If the Respondents do not accept such modifications, the Revised Proposal will be disapproved. If the Department disapproves the Revised Proposal, the Respondents shall be in violation of this Order. The Proposal or Revised Proposal, as approved, shall be deemed incorporated into this Order.

VII. Inspections. For the purpose of insuring compliance with this Order, and with applicable provisions of the ECL and regulations promulgated thereunder, representatives of this Department shall be permitted access to the site and to relevant records during reasonable hours, in order to inspect and/or perform such tests as may be deemed appropriate to determine the status of Respondent's compliance.

VIII. Split samples. The Department shall have the right to obtain for the purpose of comparative analysis split samples or duplicate samples, at the Department's option, of all substances and materials sampled by the Respondent pursuant to this Order.

IX. Notice of work. Respondent shall provide notice to the Department of any excavating, drilling, sampling, construction or start-up of equipment to be conducted pursuant to the terms of this Order at least five (5) business days in advance of such activities.

X. Other approvals. Respondent shall be obligated to obtain whatever permits, easements, rights of entry, approvals or authorizations that may be necessary in order to carry out its obligations under this Order. This Order shall not relieve the Respondent of the obligation to comply with any other laws, rules, or regulations of the State of New York or any other governmental authority which are applicable to Respondent's activities, nor preclude or limit such enforcement action as may be authorized by law for any such violation.

XI. Reservation of rights.

(A) Notwithstanding any inconsistent paragraph of this Order, or any inconsistent provisions of law, the Department hereby explicitly reserves all rights available to it pursuant to Section 71-0301 of the ECL.

(B) Nothing contained in this Order shall be construed as barring, diminishing, adjudicating, or in any way affecting any of the Department's civil, criminal, or administrative rights or authorities.

(C) Nothing contained in this Order shall be construed to prohibit the Commissioner or his duly authorized representative from exercising any summary abatement power, either at common law or as granted pursuant to statute or regulation.

(D) The Commissioner may, at any time, make a determination pursuant to Title 13 of Article 27 of the ECL as to whether the Site constitutes a significant threat to the environment and whether the Respondent shall be required to undertake an inactive hazardous waste disposal site remedial program. Any such determination shall be provided to the Respondent in writing. In the event such determination is made, the Department shall have the right to take such enforcement or other action as may be authorized by law, and to require appropriate modifications in any Closure Plan for the Site. The Respondent shall have the right to challenge such action, to the extent otherwise permitted by law.

XII. Other remedies.

(A) Nothing contained in this Order shall be construed as barring, diminishing, adjudicating or in any way affecting:

(1) any legal, administrative or equitable rights, claims, actions, suits, causes of action or demands whatsoever that the Department may have against anyone other than the Respondent;

(2) the Department's right to enforce the Order administratively or at law or in equity, the terms provisions and conditions of this Order against the Respondent, his directors, officers, employees, servants, agents, successors, and assigns in the event that the Respondent shall be in breach of the provisions hereof;

(3) the Department's right to bring any action, administratively or at law or in equity against the Respondent, his directors, officers, employees, agents, successors and assigns which the Department could otherwise maintain with respect to areas or resources that may have been affected or contaminated as a result of the release or migration of wastes from the Site or from areas in the vicinity of the Site, or to require that the Respondent take such additional measures as may be necessary for the protection of public health or the environment, including interim remedial measures;

(4) the Department's rights to commence any action or proceeding relating to or arising out of any disposal of hazardous wastes at the Site, as those wastes are defined by applicable regulation; or

(5) the Respondent's right to challenge any such action by the Department, whether by administrative hearing or otherwise, to the extent otherwise permitted by law.

(B) Respondent shall indemnify and hold the Department, the State of New York and their representatives harmless for all claims, suits, actions, damages, and costs of every name and description arising out of or resulting from the fulfillment or attempted fulfillment of this Order by the Respondent and/or any of Respondent's directors, officers, employees, servants, agents, successors and assigns.

XIII. Communications.

(A) All written communications required by this Order shall be transmitted by United States Postal Service, by private courier service, or hand delivered as follows:

Copies of Communications from the Respondent shall be sent to:

Joseph Marcogliese, P.E.
NYS DEC
200 White Plains Road - 5th Floor
Tarrytown, NY 10591-5805

Regional Attorney
NYS DEC
Division of Legal Affairs, Region 3
21 South Putt Corners Road
New Paltz, NY 10561-1696

(B) Communication to be made from the Department to the Respondent shall be sent to:

Richard Locaparra
L & L Scrap Metals
1009 Lower South Street
Peekskill, NY 10566

(C) The Department and Respondent reserve the right to designate additional or different addresses for communication or written notice to the other.

XIV. Force majeure. Respondent shall not be in default of compliance with this Order to the extent that the Respondent may be unable to comply with any provision of this Order because of the action of a national or local government body or court, an act of God, war, strike, riot or catastrophe as to any of which the negligence or willful misconduct on the part of the Respondent was not a proximate cause. Respondent shall provide notice to the Department in writing immediately upon obtaining knowledge of such event, and shall request an appropriate modification to this Order. Relief under this clause shall not be available to the Respondent, with regard to a particular event, if the Respondent fails to provide timely notice of such event. The Respondent shall have the burden of proving entitlement to relief under this clause, by clear and convincing evidence.

XV. Modification.

(A) If, for any reason, Respondent desires that any provision of this Order be changed, the Respondent shall make timely written application therefore to the Department setting forth reasonable grounds for the relief sought, together with any supporting documentation tending to establish such grounds. Such request shall be made as soon as reasonably possible after the

Respondent learns of the grounds for such relief. Where, as may be determined by the Department, a request for a modification is made in a timely fashion and is properly supported and justified in light of all the circumstances, including Respondent's compliance history and the potential environmental consequences of such modification, the Department agrees that such relief will not be unreasonably denied. The granting of a requested modification may be conditioned upon the Respondent's acceptance of additional terms, such as payment of penalties and/or curtailment of operation.

(B) This Order may be modified by the Department pursuant to the criteria and procedures set forth at ECL Section 70-0115 and 6 NYCRR Section 621.13.

(C) No change or modification to this Order shall be made or be effective as may be specifically set forth in subparagraph (A) and (B) above.

(D) Unless otherwise agreed upon in writing, this Order shall be deemed to be immediately modified upon any relevant change in the Environmental Conservation Law or regulation promulgated thereunder.

XVI. Full Settlement.

(A) The Department shall not institute an action or proceeding for penalties on account of the violations described above for as long as the Respondent adheres to and fully complies with the terms, provisions, and conditions of this Order. Any failure by the Respondent to comply with the terms of this Order may subject the Respondent to further enforcement actions for violations alleged herein. Compliance with this Order shall not excuse nor be a defense to charges of any violations of the ECL or any regulation or permit issued thereunder which may occur subsequent to the date of this Order.

(B) Respondent waives his right to contest, in any hearing or judicial action or otherwise, any allegation by the Department of the facts alleged herein or that the conduct described in this Order occurred and as alleged herein.

XVII. Failure to comply. Respondent's failure to comply with any term of this Order constitutes a violation of this Order and the ECL in addition to other sanctions as may be imposed by a court of competent jurisdiction.

XVIII. Default. The failure of the Respondent to comply fully and in a timely fashion with any provision of this Order shall constitute a default and a failure to perform an obligation under this Order and under the ECL, and shall constitute sufficient grounds for revocation of any permit, license, certification or approval issued to the Respondent by the Department.

XIX. Entire Agreement. The provisions hereof shall constitute the complete and entire Order between the Respondent and the Department concerning the site. No term, condition, understanding, or agreement purporting to modify or vary any term of this Order shall be binding. No informal

advice, guidance, suggestions, or comments by the Department regarding reports, plans, specifications, schedules, or any other writing submitted by the Respondent shall be construed as relieving the Respondent of his obligation to obtain such formal approvals as may be required by this Order.

XX. Binding effect. The provisions of this Order shall be deemed to bind the Respondent, his officers, directors, agents, employees, contractors, successors and assigns, and all persons, firms and corporations acting under or for it, including, without limitation, any subsequent operator of the Site who may carry on activities now conducted by the Respondent at the Site or any interest therein.

XXI. Authority. The individual signatories to this Order represent that they have authority to bind the respective parties by execution of this Order.

XXII. Effective date. The effective date of this Order shall be the date this Order is signed by the Commissioner or his designee.

Dated : , 2001
New Paltz, New York

ERIN CROTTY
Commissioner
New York State
Department of Environmental Conservation

By: _____
Marc Moran
Regional Director
Region 3

This document has been reviewed by Region 3 Division of Legal Affairs and approved as to form.

_____
Regional Attorney
Date: , 2001

CONSENT BY *INDIVIDUAL* RESPONDENT

Richard Locaparra

Respondent hereby consents to the issuing and entering of the foregoing Order, waives his right to a hearing herein as provided by law, and agrees to be bound by the provisions, terms, and conditions contained herein.

_____
Richard Locaparra

(May be used for individual and/or corporate acknowledgment)

STATE OF NEW YORK)
) s.s.:
COUNTY OF)

On this ___ day of _____, in the year 2001, before me, the undersigned, personally appeared

_____,

personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies) as shown in the instrument, and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public

SCHEDULE OF COMPLIANCE

I. Immediate Action

Compliance. Respondent will immediately institute and implement company policies and procedures designed to insure compliance with the Environmental Conservation Law. Until appropriate structures are in place and approved by the Department, the Respondent shall deny access to the Site to any salvage vehicles or parts containing liquids and shall not engage in automobile dismantling and/or crushing at the Site. Respondent will immediately register and protect with secondary containment, as appropriate, all petroleum bulk storage tanks on site or appropriately dispose of them off site.

II. Investigation and Remediation of Existing Pollution

(A) Investigative Work Plan. Respondent has submitted an Investigative Work Plan, which has been approved by the Department. The Investigative Work Plan proposes the methods of examining the Site to identify the extent and source of soil and/or groundwater contamination. It includes topographical and geological considerations, monitoring well locations and specifications, soil and water sampling procedures, sample testing procedures, and an implementation schedule. The water samples shall be analyzed by a NYS Department of Health certified laboratory in accordance with EPA 8020/8021 and 8270 requirements. The soil samples shall be handled and tested in accordance with NYS DEC STARS Memo #1. The Investigative Work Plan is attached to this Order as Exhibit "A."

(B) Investigative Report and Remedial Plan. Within Two (2) months of the approval of the Investigative Work Plan, Respondent shall submit to the Department an Investigative Report and Remedial Plan detailing the results of the investigative work and proposing remedial work and a work schedule for any extant contamination discovered as a result of this work. The Investigative Report shall define the extent, degree and source of onsite contamination and determine the location and extent of any offsite contamination caused by present or past industrial activities at the Site. The Remedial Plan shall address the removal of any contamination existing at the Site and shall include the location of contaminated soil and/or groundwater; method of soil and/or groundwater recovery and treatment; method of disposal of contaminated soils and/or groundwater, if required; and schedule of implementation. The Remedial Plan shall also include plans and specifications for handling and storage of parts containing fluids, storage of waste fluid and waste fluid containers, and construction of impervious and protected pads and containment areas suitable for vehicle dismantling and/or crushing, if the practice is to be continued on Site. When approved, the Investigative Report and Remedial Plan shall be attached to this Order as Exhibit "B".

(C) Final Report/Self-Certification. Respondents shall submit to the Department a final report and a signed statement, certified and stamped by a professional engineer licensed by the State of New York, that the work required by this Order and Schedule was completed by the deadlines set forth, and that the work was done in the manner required by this Order. Respondent shall submit, with the certification, receipts for disposal of waste confirming that all contaminated soils, sorbents,

and screened materials have been transported from the Site by a licensed waste hauler to a Department-approved disposal facility as determined appropriate by sample results.

III. Prevention of Future Pollution

Pollution Prevention Plan. Upon execution of this Order, the Respondent will undertake a comprehensive Pollution Prevention Plan for the Site. The Pollution Prevention Plan shall include the handling and management of fluids and waste at the Site pursuant to the Environmental Conservation Law and the Automobile Recyclers Association, *Storm Water Guidance Manual,* dated September 1996. Pursuant to Paragraph II of this Order, within Six (6) months of the effective date of this Order, an approvable Pollution Prevention Plan shall be submitted to the Department of Environmental Conservation, 200 White Plains Road, 5th Floor, Tarrytown, NY 10591, attention: Joseph Marcogliese, P.E.

REMEDIAL WORK PLAN

L & L SCRAP METALS
1009 LOWER SOUTH STREET
PEEKSKILL, NEW YORK 10566-5331

NYSDEC ORDER OF CONSENT NO 3-2000 0407-39
NYSDEC SPILL #00-10387

Prepared for:
Mr. John O'Mara
NYS Department of Environmental Conservation
21 South Putt Corners Road
New Paltz, NY 12561

Issue Date:
March 5, 2001

Ira D. Conklin & Sons, Inc.
Environmental Division
92 Stewart Avenue, Newburgh, New York

TABLE OF CONTENTS

1.0 Introduction

Mr. Richard Locaparra, owner of L&L Scrap Metal has retained Ira D. Conklin & Sons, Inc. (IDC) to prepare a Remedial Work Plan addressing the removal of petroleum and low level PCB contaminated soils from defined surface and subsurface locations at L&L Scrap Metal's facility. The remedial action chosen has been developed based on subsurface data gathered and analyzed by IDC. The site data analysis is included as Addendum A. The soil boring investigation was submitted to the New York State Department of Environmental Conservation (NYSDEC) on January 4, 2001. The objective of this Remedial Work Plan is to implement the remedial action of surface and subsurface contaminated soils identified in the southern area at the facility through laboratory analysis.

Site subsurface data indicates that petroleum contaminated soils were detected in the spill area, and soil borings performed on the subject property within the operating area of the yard. Soil sampling investigation data gathered by IDC shows that the highest concentrations are found in the spill area. Soil borings 1,2,4,6, and 7 also contained concentration in excess of NYSDEC Guidance Values (Figure 2). The spill area, located in the southeast portion of the property, was inundated with water. A slight sheen was noted, however no free product was observed. Soils throughout the site are moist. Bedrock was found to be uniform in all investigated areas from (3) three to (4) four feet below grade. Groundwater was not encountered during the investigation. Research indicates the site is located in the Manhattan Formation, which consists of granite, schist, and gneiss. Soil in the area consists mainly of shallow glacially formed soils from the Charlton – Chatfield series (USDA – Soil Conservation Service –1994).

The subject property is located in a highly industrial area. Historically the site has operated as a salvage yard since the early 1920's. The adjacent property is a facility, which accepts construction debris and recyclables called Global Recycling and Collection, Inc. The subject property is located ¼ mile east of the Hudson River. The site and surrounding area is serviced by municipal sewer and water provided by the City of Peekskill.

The northern portion of the lot is not utilized in the daily operation of the recycling center. Several buildings, which include a house and garage, are located in the northwest corner of the lot; the rest of the northern half of the lot is mainly used for storage. This area has not been identified as an area of concern in the NYSDEC Consent Order. However, limited sampling will be performed in these areas to address environmental concerns outside of the operating area (northern portion of the lot).

2.0 Proposed Remedial Action

The most effective remedial action method would be to excavate contaminated soils down to the bedrock shelf, or until an acceptable soils are encountered. Surface water, if encountered, must be addressed prior to excavation activities. Surface water will be removed by vacuum truck and properly disposed of dependent upon concentrations detected in a water sample. However, if water is a recurring problem during excavation activities, arrangements must be made for a holding tank and water removal.

Contaminated soil will be excavated; stockpiled on polysheeting, and covered on-site in a designated staging area located in the southeast corner of the property. Upon completion of excavation activities, arrangements will be made to properly dispose of the soil at a regulated facility. Upon removal of all contaminated soils from each phase area, clean fill will be supplied, by the customer, to replace the soils removed.

Excavation activities will be performed in three phases.

PHASE I
IDC recommends beginning excavation activities in the southeast corner of the property, addressing the spill area first where the highest concentrations were detected. Soils would be excavated down to bedrock or acceptably clean soils. This area is currently inundated with standing water. If water is still present at the time of excavation activities, arrangements will be made for the proper removal and disposal of the wastewater.

PHASE II
Excavation of the eastern edge of the property, where the former car crushing activities were located would be excavated next. Currently miscellaneous scrap (tires, metal, etc.) is located in this area. Soils will be excavated down to acceptably clean soils.

PHASE III
Excavation of the southwest corner, where an iron scrap pile and machinery is located, would be excavated down to bedrock or acceptably clean soils. This area will be done last because the iron pile must be removed in order to excavate within this area.

Dependent upon results of the soil sampling in the northern portion of the property, a Phase IV would be implemented to address excavation of contmainated soil found in this location.

L&L Scrap yard personnel will be performing all excavation activities.

3.0 Site Monitoring

An IDC geologist will be on-site monitoring excavation activities. Soil will be field screened during excavation activities with a Photoionization Detector (PID meter). All noticeably contaminated soils will be segregated and stockpiled on-site. Excavation activities will continue until soils with PID readings below 20 ppm, or no detectable levels are encountered. Acceptable soils, if present will be sampled by the following methods:

EPA Method 8021 – Volatile Organic Compounds
EPA Method 8270 – Semi- Volatile Organic Compounds
EPA Method 8080 – PCB's
Total RCRA Metals
The 1311 TCLP extraction method will be performed on all TCLP analyses.

An IDC geologist will obtain two (2) grab samples from the northern portion of the property. One composite grab sample will be collected from the storage area (northeast), and one (1) composite grab sample will be collected from the area near the house and garage (northwest). These samples will be analyzed by the parameters listed above.

4.0 Cleanup Goals

The chosen remedial action will effectively remove existing petroleum contaminated soils. After petroleum contaminated soils are removed from the subsurface, a closure of remedial activities will be requested of the NYSDEC. Based on the findings and analytical data further recommendations may be made to address the quality of the groundwaters beneath the subject property.

5.0 Schedule of Implementation

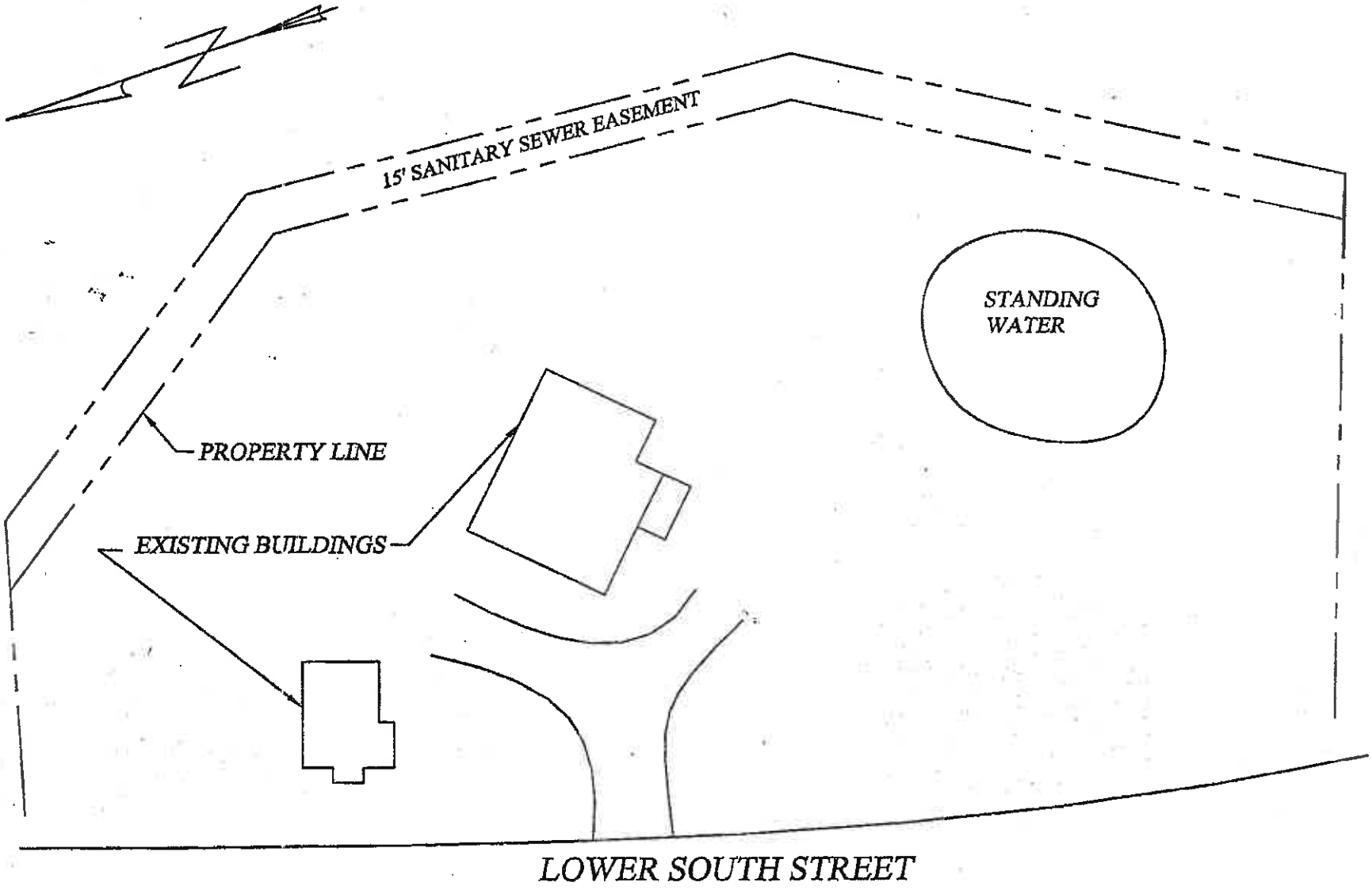
Site activities will be scheduled to begin the month of May 2001.

Phase I excavation actives are scheduled to commence first week of May 2001. Excavation in Phase II and Phase III will commence upon completion of the previous Phase. Excavation activities are estimated to be completed in approximately two (2) weeks. Arrangements for soil disposal will be made upon completion of excavation activities. Upon completion of soil disposal, a final report including analytical data, disposal certificates, and recommendations, will be completed and submitted to the Region 3 office of the New York State Department of Environmental Conservation for their review.

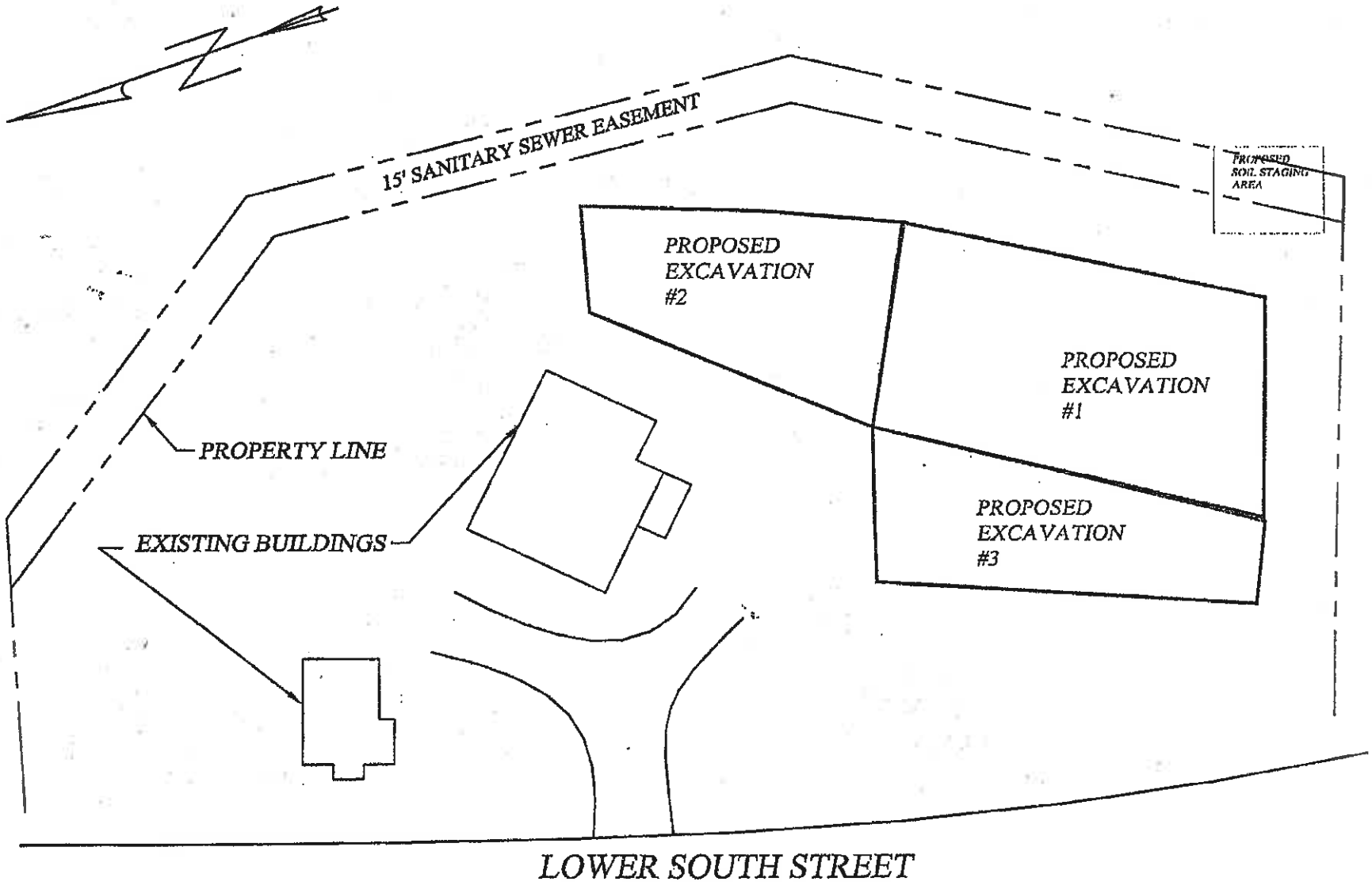
APPENDIX A

SITE MAPS

Frank Miller, Ira D. Conklin & Sons, Inc. 2/8/01 5:30 PM SITE-PLAN-E-255.dwg



IRA D. CONKLIN & SONS, INC 94 STEWART AVENUE NEWBURGH, NY 12550		VOICE: 845-561-1512 FAX: 845-569-0051 DRAWN BY: F. MILLER	FEB 07, 2001 WO# E-255	FIGURE 1 SITE MAP L&L SCRAP & RECYCLING 1009 LOWER SOUTH ST PEEKSKILL, NY



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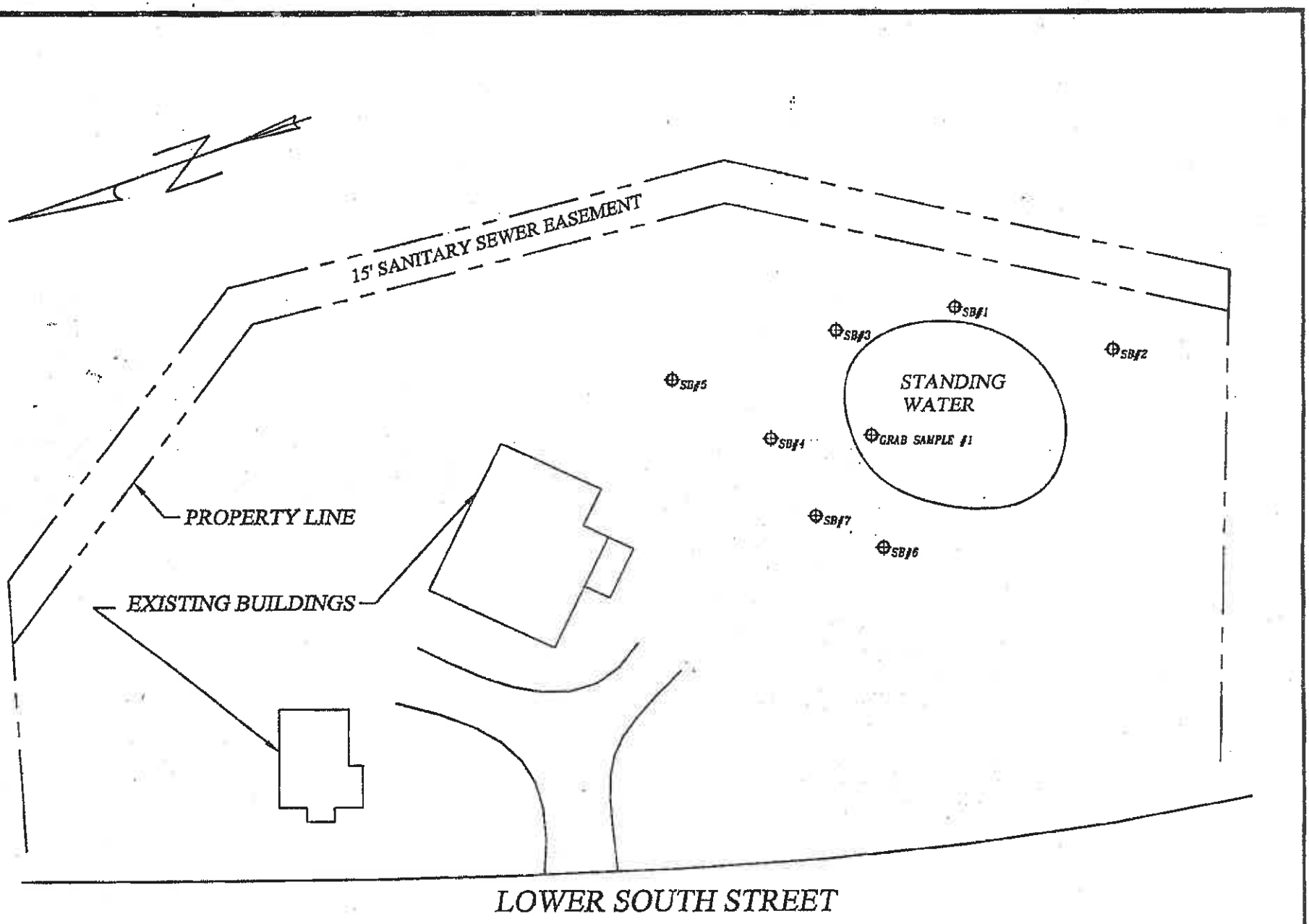
IRA D. CONKLIN & SONS, INC 94 STEWART AVENUE NEWBURGH, NY 12550	VOICE: 845-561-1512 FAX: 845-569-0051 DRAWN BY: F. MILLER	FEB 07, 2001 WO# E-255	FIGURE 2 PROPOSED EXCAVATION L&L SCRAP & RECYCLING 1009 LOWER SOUTH ST PEEKSKILL, NY

Frank Miller, Ira D. Conklin & Sons, Inc. 2/8/01 5:30 PM SITE-PLAN-E-255.dwg



IRA D. CONKLIN & SONS, INC 94 STEWART AVENUE NEWBURGH, NY 12550	VOICE: 845-561-1512 FAX: 845-569-0051 DRAWN BY: F. MILLER	FEB 07, 2001 WO# E-255	FIGURE 3 SOIL BORINGS L&L SCRAP & RECYCLING 1009 LOWER SOUTH ST PEEKSKILL, NY

APPENDIX B

SOIL BORING ANALYTICAL DATA

YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for

Ira D. Conklin & Sons, Inc.
94 Stewart Ave.
P.O. Box 7457
Newburgh, NY 12550
Attention: Jackie Patt

Report Date: 12/12/2000
Re: Client Project ID: E-0000255/L&L Scrap
York Project No.: 00120040R

CT License No. PH-0723 New York License No. 10854 Mass. License No. M-CT106 Rhode Island License No. 93 EPA I.D. No. CT00106

ONE REBEARCH DRIVE STAMFORD, CT 06906 (203) 325-1371 FAX (203) 357-0166

Report Date: 12/12/2000
Client Project ID: E-0000255/L&L Scrap

York Project No.: 00120040R

Ira D. Conklin & Sons, Inc.
94 Stewart Ave.
P.O. Box 7457
Newburgh, NY 12550
Attention: Jackie Patt

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 12/01/00. The project was identifed as your project "E-0000255/L&L Scrap ".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables .

The results of the analysis are summarized in the following table(s).

Analysis Results

Client Sample ID			3149A/SB-7		3149B/SB-6	
York Sample ID			00120040-01		00120040-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 List soil	SW846-8260	ug/Kg				
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,1-Trichloroethane			Not detected	5.0	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,2-Trichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethylene			Not detected	5.0	Not detected	10
1,1-Dichloropropylene			Not detected	5.0	Not detected	10
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	10
1,2,3-Trichloropropane			Not detected	5.0	Not detected	10
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	10
1,2,4-Trimethylbenzene			68	5.0	1800	10
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	10
1,2-Dibromoethane			Not detected	5.0	Not detected	10
1,2-Dichlorobenzene			Not detected	5.0	Not detected	10
1,2-Dichloroethane			Not detected	5.0	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	10
1,2-Dichloropropane			Not detected	5.0	Not detected	10
1,3,5-Trimethylbenzene			62	5.0	820	10
1,3-Dichlorobenzene			Not detected	5.0	Not detected	10
1,3-Dichloropropane			Not detected	5.0	Not detected	10
1,4-Dichlorobenzene			Not detected	5.0	Not detected	10
2,2-Dichloropropane			Not detected	5.0	Not detected	10

Client Sample ID			3149A/SB-7		3149B/SB-6	
York Sample ID			00120040-01		00120040-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
2-Chlorotoluene			Not detected	5.0	Not detected	10
4-Chlorotoluene			Not detected	5.0	Not detected	10
Benzene			Not detected	5.0	28	10
Bromobenzene			Not detected	5.0	Not detected	10
Bromochloromethane			Not detected	5.0	Not detected	10
Bromodichloromethane			Not detected	5.0	Not detected	10
Bromoform			Not detected	5.0	Not detected	10
Bromomethane			Not detected	5.0	Not detected	10
Carbon tetrachloride			Not detected	5.0	Not detected	10
Chlorobenzene			Not detected	5.0	Not detected	10
Chloroethane			Not detected	5.0	Not detected	10
Chloroform			Not detected	5.0	Not detected	10
Chloromethane			Not detected	5.0	Not detected	10
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Dibromochloromethane			Not detected	5.0	Not detected	10
Dibromomethane			Not detected	5.0	Not detected	10
Dichlorodifluoromethane			Not detected	5.0	Not detected	10
Ethylbenzene			Not detected	5.0	330	10
Hexachlorobutadiene			Not detected	5.0	Not detected	10
Isopropylbenzene			Not detected	5.0	53	10
Methylene chloride			Not detected	5.0	Not detected	10
Naphthalene			18	5.0	350	10
n-Butylbenzene			11	5.0	150	10
n-Propylbenzene			Not detected	5.0	150	10
o-Xylene			43	5.0	740	10
p- & m-Xylenes			19	5.0	750	10
p-Isopropyltoluene			Not detected	5.0	28	10
sec-Butylbenzene			Not detected	5.0	23	10
Styrene			Not detected	5.0	Not detected	10
tert-Butylbenzene			8	5.0	210	10
Tetrachloroethylene			Not detected	5.0	Not detected	10
Toluene			Not detected	5.0	92	10
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Trichloroethylene			Not detected	5.0	Not detected	10
Trichlorofluoromethane			Not detected	5.0	Not detected	10
Vinyl chloride			Not detected	5.0	Not detected	10
MTBE			Not detected	5.0	24	10
BNA-8270 List soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	330	Not detected	3300
1,2-Dichlorobenzene			Not detected	330	Not detected	3300
1,3-Dichlorobenzene			Not detected	330	Not detected	3300
1,4-Dichlorobenzene			Not detected	330	Not detected	3300
2,4,5-Trichlorophenol			Not detected	330	Not detected	3300
2,4,6-Trichlorophenol			Not detected	330	Not detected	3300
2,4-Dichlorophenol			Not detected	330	Not detected	3300
2,4-Dimethylphenol			Not detected	330	Not detected	3300
2,4-Dinitrophenol			Not detected	1700	Not detected	17000
2,4-Dinitrotoluene			Not detected	330	Not detected	3300
2,6-Dinitrotoluene			Not detected	330	Not detected	3300
2-Chloronaphthalene			Not detected	330	Not detected	3300
2-Chlorophenol			Not detected	330	Not detected	3300
2-Methylnaphthalene			Not detected	330	3400	3300
2-Methylphenol			Not detected	330	Not detected	3300

Client Sample ID			3149A/SB-7		3149B/SB-6	
York Sample ID			00120040-01		00120040-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
2-Nitroaniline			Not detected	1700	Not detected	17000
2-Nitrophenol			Not detected	330	Not detected	3300
3,3'-Dichlorobenzidine			Not detected	330	Not detected	3300
3-Nitroaniline			Not detected	1700	Not detected	17000
4,6-Dinitro-2-methylphenol			Not detected	1700	Not detected	17000
4-Bromophenyl phenyl ether			Not detected	330	Not detected	3300
4-Chloro-3-methyl phenol			Not detected	330	Not detected	3300
4-Chloroaniline			Not detected	330	Not detected	3300
4-Chlorophenyl phenyl ether			Not detected	330	Not detected	3300
4-Methylphenol			Not detected	330	Not detected	3300
4-Nitroaniline			Not detected	1700	Not detected	17000
4-Nitrophenol			Not detected	1700	Not detected	17000
Acenaphthene			Not detected	330	Not detected	3300
Acenaphthylene			Not detected	330	Not detected	3300
Anthracene			Not detected	330	3700	3300
Benzo(a)anthracene			Not detected	330	9400	3300
Benzo(a)pyrene			Not detected	330	5000	3300
Benzo(b)fluoranthene			Not detected	330	3700	3300
Benzo(g,h,i)perylene			Not detected	330	Not detected	3300
Benzo(k)fluoranthene			Not detected	330	4700	3300
Benzyl alcohol			Not detected	330	Not detected	3300
Bis(2-chloroethoxy)methane			Not detected	330	Not detected	3300
Bis(2-chloroethyl)ether			Not detected	330	Not detected	3300
Bis(2-chloroisopropyl)ether			Not detected	330	Not detected	3300
Bis(2-ethylhexyl)phthalate			490	330	9000	3300
Butyl benzyl phthalate			Not detected	330	Not detected	3300
Chrysene			Not detected	330	9300	3300
Dibenz(a,h)anthracene			Not detected	330	Not detected	3300
Dibenzofuran			Not detected	330	Not detected	3300
Diethylphthalate			Not detected	330	Not detected	3300
Dimethylphthalate			Not detected	330	Not detected	3300
Di-n-butylphthalate			Not detected	330	Not detected	3300
Di-n-octylphthalate			Not detected	330	Not detected	3300
Fluoranthene			Not detected	330	7800	3300
Fluorene			Not detected	330	Not detected	3300
Hexachlorobenzene			Not detected	330	Not detected	3300
Hexachlorobutadiene			Not detected	330	Not detected	3300
Hexachlorocyclopentadiene			Not detected	330	Not detected	3300
Hexachloroethane			Not detected	330	Not detected	3300
Indeno(1,2,3-cd)pyrene			Not detected	330	Not detected	3300
Isophorone			Not detected	330	Not detected	3300
Naphthalene			Not detected	330	Not detected	3300
Nitrobenzene			Not detected	330	Not detected	3300
N-Nitrosodi-n-propylamine			Not detected	330	Not detected	3300
N-Nitrosodiphenylamine			Not detected	1700	Not detected	17000
Pentachlorophenol			Not detected	330	18000	3300
Phenanthrene			Not detected	330	Not detected	3300
Phenol			Not detected	330	5300	3300
Pyrene			---	---	---	---
PCB	SW846-3550B/8082	mg/Kg	Not detected	0.04	Not detected	0.20
PCB 1016			Not detected	0.04	Not detected	0.20
PCB 1221			Not detected	0.04	Not detected	0.20
PCB 1232						

YORK

Client Sample ID			3149A/SB-7		3149B/SB-6	
York Sample ID			00120040-01		00120040-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
PCB 1242			Not detected	0.04	Not detected	0.20
PCB 1248			Not detected	0.04	Not detected	0.20
PCB 1254			0.06	0.04	3.2	0.20
PCB 1260			Not detected	0.04	Not detected	0.20
PCB, Total			0.06	0.04	3.2	0.20
Total RCRA Metals	SW846	mg/kG	---	---	---	---
Arsenic, total			3.20	1.00	Not detected	1.00
Barium, total			262	0.50	156	0.50
Cadmium, total			Not detected	0.50	14.3	0.50
Chromium, total			15.6	0.50	49.0	0.50
Lead, total			28.7	0.50	559	0.50
Selenium, total			2.39	1.00	Not detected	1.00
Silver, total			Not detected	0.50	Not detected	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.25	0.709	0.25

Client Sample ID			3149C/SB-5		3149D/SB-4	
York Sample ID			00120040-03		00120040-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 List soil	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,1-Trichloroethane			Not detected	5.0	Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	10
1,1,2-Trichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethane			Not detected	5.0	Not detected	10
1,1-Dichloroethylene			Not detected	5.0	Not detected	10
1,1-Dichloropropylene			Not detected	5.0	Not detected	10
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	10
1,2,3-Trichloropropane			Not detected	5.0	Not detected	10
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	10
1,2,4-Trimethylbenzene			170	5.0	6400	10
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	10
1,2-Dibromoethane			Not detected	5.0	Not detected	10
1,2-Dichlorobenzene			Not detected	5.0	Not detected	10
1,2-Dichloroethane			Not detected	5.0	Not detected	10
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	10
1,2-Dichloropropane			Not detected	5.0	Not detected	10
1,3,5-Trimethylbenzene			47	5.0	2400	10
1,3-Dichlorobenzene			Not detected	5.0	Not detected	10
1,3-Dichloropropane			Not detected	5.0	Not detected	10
1,4-Dichlorobenzene			Not detected	5.0	Not detected	10
2,2-Dichloropropane			Not detected	5.0	Not detected	10
2-Chlorotoluene			Not detected	5.0	Not detected	10
4-Chlorotoluene			Not detected	5.0	Not detected	10
Benzene			Not detected	5.0	45	10
Bromobenzene			Not detected	5.0	Not detected	10
Bromochloromethane			Not detected	5.0	Not detected	10
Bromodichloromethane			Not detected	5.0	Not detected	10
Bromoform			Not detected	5.0	Not detected	10
Bromomethane			Not detected	5.0	Not detected	10
Carbon tetrachloride			Not detected	5.0	Not detected	10
Chlorobenzene			Not detected	5.0	Not detected	10

YORK

Client Sample ID			3149C/SB-5		3149D/SB-4	
York Sample ID			00120040-03		00120040-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Chloroethane			Not detected	5.0	Not detected	10
Chloroform			Not detected	5.0	Not detected	10
Chloromethane			Not detected	5.0	Not detected	10
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Dibromochloromethane			Not detected	5.0	Not detected	10
Dibromomethane			Not detected	5.0	Not detected	10
Dichlorodifluoromethane			Not detected	5.0	Not detected	10
Ethylbenzene			13	5.0	1600	10
Hexachlorobutadiene			Not detected	5.0	Not detected	10
Isopropylbenzene			Not detected	5.0	300	10
Methylene chloride			Not detected	5.0	Not detected	10
Naphthalene			35	5.0	1500	10
n-Butylbenzene			13	5.0	500	10
n-Propylbenzene			18	5.0	780	10
o-Xylene			41	5.0	5000	10
p- & m-Xylenes			66	5.0	8200	10
p-Isopropyltoluene			Not detected	5.0	72	10
sec-Butylbenzene			Not detected	5.0	92	10
Styrene			Not detected	5.0	Not detected	10
tert-Butylbenzene			19	5.0	720	10
Tetrachloroethylene			Not detected	5.0	14	10
Toluene			8	5.0	3400	10
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	10
Trichloroethylene			Not detected	5.0	Not detected	10
Trichlorofluoromethane			Not detected	5.0	Not detected	10
Vinyl chloride			Not detected	5.0	Not detected	10
MTBE			Not detected	5.0	41	10
BNA-8270 List soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	330	Not detected	3300
1,2-Dichlorobenzene			Not detected	330	Not detected	3300
1,3-Dichlorobenzene			Not detected	330	Not detected	3300
1,4-Dichlorobenzene			Not detected	330	Not detected	3300
2,4,5-Trichlorophenol			Not detected	330	Not detected	3300
2,4,6-Trichlorophenol			Not detected	330	Not detected	3300
2,4-Dichlorophenol			Not detected	330	Not detected	3300
2,4-Dimethylphenol			Not detected	330	Not detected	3300
2,4-Dinitrophenol			Not detected	1700	Not detected	17000
2,4-Dinitrotoluene			Not detected	330	Not detected	3300
2,6-Dinitrotoluene			Not detected	330	Not detected	3300
2-Chloronaphthalene			Not detected	330	Not detected	3300
2-Chlorophenol			Not detected	330	Not detected	3300
2-Methylnaphthalene			Not detected	330	6000	3300
2-Methylphenol			Not detected	330	Not detected	3300
2-Nitroaniline			Not detected	1700	Not detected	17000
2-Nitrophenol			Not detected	330	Not detected	3300
3,3'-Dichlorobenzidine			Not detected	330	Not detected	3300
3-Nitroaniline			Not detected	1700	Not detected	17000
4,6-Dinitro-2-methylphenol			Not detected	1700	Not detected	17000
4-Bromophenyl phenyl ether			Not detected	330	Not detected	3300
4-Chloro-3-methyl phenol			Not detected	330	Not detected	3300
4-Chloroaniline			Not detected	330	Not detected	3300
4-Chlorophenyl phenyl ether			Not detected	330	Not detected	3300
4-Methylphenol			Not detected	330	Not detected	3300

Client Sample ID			3149C/SB-5		3149D/SB-4	
York Sample ID			00120040-03		00120040-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
4-Nitroaniline			Not detected	1700	Not detected	17000
4-Nitrophenol			Not detected	1700	Not detected	17000
Acenaphthene			Not detected	330	Not detected	3300
Acenaphthylene			Not detected	330	Not detected	3300
Anthracene			Not detected	330	Not detected	3300
Benzo(a)anthracene			Not detected	330	Not detected	3300
Benzo(a)pyrene			Not detected	330	Not detected	3300
Benzo(b)fluoranthene			Not detected	330	Not detected	3300
Benzo(g,h,i)perylene			Not detected	330	Not detected	3300
Benzo(k)fluoranthene			Not detected	330	Not detected	3300
Benzyl alcohol			Not detected	330	Not detected	3300
Bis(2-chloroethoxy)methane			Not detected	330	Not detected	3300
Bis(2-chloroethyl)ether			Not detected	330	Not detected	3300
Bis(2-chloroisopropyl)ether			Not detected	330	Not detected	3300
Bis(2-ethylhexyl)phthalate			Not detected	330	Not detected	3300
Butyl benzyl phthalate			Not detected	330	Not detected	3300
Chrysene			Not detected	330	Not detected	3300
Dibenz(a,h)anthracene			Not detected	330	Not detected	3300
Dibenzofuran			Not detected	330	Not detected	3300
Diethylphthalate			Not detected	330	Not detected	3300
Dimethylphthalate			Not detected	330	Not detected	3300
Di-n-butylphthalate			Not detected	330	Not detected	3300
Di-n-octylphthalate			Not detected	330	Not detected	3300
Fluoranthene			Not detected	330	3400	3300
Fluorene			Not detected	330	Not detected	3300
Hexachlorobenzene			Not detected	330	Not detected	3300
Hexachlorobutadiene			Not detected	330	Not detected	3300
Hexachlorocyclopentadiene			Not detected	330	Not detected	3300
Hexachloroethane			Not detected	330	Not detected	3300
Indeno(1,2,3-cd)pyrene			Not detected	330	Not detected	3300
Isophorone			Not detected	330	Not detected	3300
Naphthalene			Not detected	330	3700	3300
Nitrobenzene			Not detected	330	Not detected	3300
N-Nitrosodi-n-propylamine			Not detected	330	Not detected	3300
N-Nitrosodiphenylamine			Not detected	330	Not detected	3300
Pentachlorophenol			Not detected	1700	Not detected	17000
Phenanthrene			Not detected	330	4500	3300
Phenol			Not detected	330	Not detected	3300
Pyrene			Not detected	330	3300	3300
PCB	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.02	1.6	0.20
PCB 1221			Not detected	0.02	Not detected	0.20
PCB 1232			Not detected	0.02	Not detected	0.20
PCB 1242			Not detected	0.02	Not detected	0.20
PCB 1248			Not detected	0.02	Not detected	0.20
PCB 1254			Not detected	0.02	2.1	0.20
PCB 1260			Not detected	0.02	Not detected	0.20
PCB, Total			Not detected	0.02	3.7	0.20
Total RCRA Metals	SW846	mg/kG	---	---	---	---
Arsenic, total			2.68	1.00	Not detected	1.00
Barium, total			277	0.50	298	0.50
Cadmium, total			Not detected	0.50	10.3	0.50
Chromium, total			19.8	0.50	124	0.50

Client Sample ID			3149C/SB-5		3149D/SB-4	
York Sample ID			00120040-03		00120040-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Lead, total			46.4	0.50	578	0.50
Selenium, total			1.82	1.00	Not detected	1.00
Silver, total			Not detected	0.50	1.77	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.25	0.310	0.25

Client Sample ID			3149E/SB-3		3149F/SB-2	
York Sample ID			00120040-05		00120040-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 List soil	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,1-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1,2,2-Tetrachloroethane			Not detected	5.0	Not detected	5.0
1,1,2-Trichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethane			Not detected	5.0	Not detected	5.0
1,1-Dichloroethylene			Not detected	5.0	Not detected	5.0
1,1-Dichloropropylene			Not detected	5.0	Not detected	5.0
1,2,3-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2,3-Trichloropropane			Not detected	5.0	Not detected	5.0
1,2,4-Trichlorobenzene			Not detected	5.0	Not detected	5.0
1,2,4-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,2-Dibromo-3-chloropropane			Not detected	5.0	Not detected	5.0
1,2-Dibromoethane			Not detected	5.0	Not detected	5.0
1,2-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,2-Dichloroethane			Not detected	5.0	Not detected	5.0
1,2-Dichloroethylene (Total)			Not detected	5.0	Not detected	5.0
1,2-Dichloropropane			Not detected	5.0	Not detected	5.0
1,3,5-Trimethylbenzene			Not detected	5.0	Not detected	5.0
1,3-Dichlorobenzene			Not detected	5.0	Not detected	5.0
1,3-Dichloropropane			Not detected	5.0	Not detected	5.0
1,4-Dichlorobenzene			Not detected	5.0	Not detected	5.0
2,2-Dichloropropane			Not detected	5.0	Not detected	5.0
2-Chlorotoluene			Not detected	5.0	Not detected	5.0
4-Chlorotoluene			Not detected	5.0	Not detected	5.0
Benzene			Not detected	5.0	Not detected	5.0
Bromobenzene			Not detected	5.0	Not detected	5.0
Bromochloromethane			Not detected	5.0	Not detected	5.0
Bromodichloromethane			Not detected	5.0	Not detected	5.0
Bromoform			Not detected	5.0	Not detected	5.0
Bromomethane			Not detected	5.0	Not detected	5.0
Carbon tetrachloride			Not detected	5.0	Not detected	5.0
Chlorobenzene			Not detected	5.0	Not detected	5.0
Chloroethane			Not detected	5.0	Not detected	5.0
Chloroform			Not detected	5.0	Not detected	5.0
Chloromethane			Not detected	5.0	Not detected	5.0
cis-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Dibromochloromethane			Not detected	5.0	Not detected	5.0
Dibromomethane			Not detected	5.0	Not detected	5.0
Dichlorodifluoromethane			Not detected	5.0	Not detected	5.0
Ethylbenzene			Not detected	5.0	Not detected	5.0
Hexachlorobutadiene			Not detected	5.0	Not detected	5.0
Isopropylbenzene			Not detected	5.0	Not detected	5.0

YORK

Client Sample ID			3149E/SB-3		3149F/SB-2	
York Sample ID			00120040-05		00120040-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Methylene chloride			Not detected	5.0	Not detected	5.0
Naphthalene			Not detected	5.0	Not detected	5.0
n-Butylbenzene			Not detected	5.0	Not detected	5.0
n-Propylbenzene			Not detected	5.0	Not detected	5.0
o-Xylene			Not detected	5.0	Not detected	5.0
p- & m-Xylenes			Not detected	5.0	Not detected	5.0
p-Isopropyltoluene			Not detected	5.0	Not detected	5.0
sec-Butylbenzene			Not detected	5.0	Not detected	5.0
Styrene			Not detected	5.0	Not detected	5.0
tert-Butylbenzene			Not detected	5.0	Not detected	5.0
Tetrachloroethylene			Not detected	5.0	Not detected	5.0
Toluene			Not detected	5.0	Not detected	5.0
trans-1,3-Dichloropropylene			Not detected	5.0	Not detected	5.0
Trichloroethylene			Not detected	5.0	Not detected	5.0
Trichlorofluoromethane			Not detected	5.0	Not detected	5.0
Vinyl chloride			Not detected	5.0	Not detected	5.0
MTBE			Not detected	5.0	Not detected	5.0
BNA-8270 List soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	330	Not detected	330
1,2-Dichlorobenzene			Not detected	330	Not detected	330
1,3-Dichlorobenzene			Not detected	330	Not detected	330
1,4-Dichlorobenzene			Not detected	330	Not detected	330
2,4,5-Trichlorophenol			Not detected	330	Not detected	330
2,4,6-Trichlorophenol			Not detected	330	Not detected	330
2,4-Dichlorophenol			Not detected	330	Not detected	330
2,4-Dimethylphenol			Not detected	330	Not detected	330
2,4-Dinitrophenol			Not detected	1700	Not detected	1700
2,4-Dinitrotoluene			Not detected	330	Not detected	330
2,6-Dinitrotoluene			Not detected	330	Not detected	330
2-Chloronaphthalene			Not detected	330	Not detected	330
2-Chlorophenol			Not detected	330	Not detected	330
2-Methylnaphthalene			Not detected	330	Not detected	330
2-Methylphenol			Not detected	330	Not detected	330
2-Nitroaniline			Not detected	1700	Not detected	1700
2-Nitrophenol			Not detected	330	Not detected	330
3,3'-Dichlorobenzidine			Not detected	330	Not detected	330
3-Nitroaniline			Not detected	1700	Not detected	1700
4,6-Dinitro-2-methylphenol			Not detected	1700	Not detected	1700
4-Bromophenyl phenyl ether			Not detected	330	Not detected	330
4-Chloro-3-methyl phenol			Not detected	330	Not detected	330
4-Chloroaniline			Not detected	330	Not detected	330
4-Chlorophenyl phenyl ether			Not detected	330	Not detected	330
4-Methylphenol			Not detected	330	Not detected	330
4-Nitroaniline			Not detected	1700	Not detected	1700
4-Nitrophenol			Not detected	1700	Not detected	1700
Acenaphthene			Not detected	330	670	330
Acenaphthylene			Not detected	330	Not detected	330
Anthracene			Not detected	330	1300	330
Benzo(a)anthracene			Not detected	330	3500	330
Benzo(a)pyrene			Not detected	330	2700	330
Benzo(b)fluoranthene			Not detected	330	2400	330
Benzo(g,h,i)perylene			Not detected	330	Not detected	330
Benzo(k)fluoranthene			Not detected	330	3700	330

Client Sample ID			3149E/SB-3		3149F/SB-2	
York Sample ID			00120040-05		00120040-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Benzyl alcohol			Not detected	330	Not detected	330
Bis(2-chloroethoxy)methane			Not detected	330	Not detected	330
Bis(2-chloroethyl)ether			Not detected	330	Not detected	330
Bis(2-chloroisopropyl)ether			Not detected	330	Not detected	330
Bis(2-ethylhexyl)phthalate			Not detected	330	1600	330
Butyl benzyl phthalate			Not detected	330	1600	330
Chrysene			Not detected	330	2800	330
Dibenz(a,h)anthracene			Not detected	330	Not detected	330
Dibenzofuran			Not detected	330	380	330
Diethylphthalate			Not detected	330	Not detected	330
Dimethylphthalate			Not detected	330	Not detected	330
Di-n-butylphthalate			Not detected	330	Not detected	330
Di-n-octylphthalate			Not detected	330	Not detected	330
Fluoranthene			360	330	3500	330
Fluorene			Not detected	330	910	330
Hexachlorobenzene			Not detected	330	Not detected	330
Hexachlorobutadiene			Not detected	330	Not detected	330
Hexachlorocyclopentadiene			Not detected	330	Not detected	330
Hexachloroethane			Not detected	330	Not detected	330
Indeno(1,2,3-cd)pyrene			Not detected	330	Not detected	330
Isophorone			Not detected	330	Not detected	330
Naphthalene			Not detected	330	Not detected	330
Nitrobenzene			Not detected	330	Not detected	330
N-Nitrosodi-n-propylamine			Not detected	330	Not detected	330
N-Nitrosodiphenylamine			Not detected	330	Not detected	330
Pentachlorophenol			Not detected	1700	Not detected	1700
Phenanthrene			Not detected	330	3000	330
Phenol			Not detected	330	Not detected	330
Pyrene			Not detected	330	2600	330
PCB	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			Not detected	0.02	Not detected	0.02
PCB 1221			Not detected	0.02	Not detected	0.02
PCB 1232			Not detected	0.02	Not detected	0.02
PCB 1242			Not detected	0.02	Not detected	0.02
PCB 1248			Not detected	0.02	Not detected	0.02
PCB 1254			Not detected	0.02	0.67	0.02
PCB 1260			0.08	0.02	Not detected	0.02
PCB, Total			0.08	0.02	0.67	0.02
Total RCRA Metals	SW846	mg/kG	---	---	---	---
Arsenic, total			Not detected	1.00	5.38	1.00
Barium, total			350	0.50	430	0.50
Cadmium, total			0.91	0.50	1.20	0.50
Chromium, total			21.2	0.50	23.4	0.50
Lead, total			29.8	0.50	364	0.50
Selenium, total			1.72	1.00	1.65	1.00
Silver, total			Not detected	0.50	Not detected	0.50
Mercury	SW846-7471	mg/kG	Not detected	0.25	Not detected	0.25

YORK

Client Sample ID			3149G/SB-1		3149H/Spill Area	
York Sample ID			00120040-07		00120040-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Volatiles-8021 List soil	SW846-8260	ug/Kg	---	---	---	---
1,1,1,2-Tetrachloroethane			Not detected	50	Not detected	50
1,1,1-Trichloroethane			Not detected	50	Not detected	50
1,1,2,2-Tetrachloroethane			Not detected	50	Not detected	50
1,1,2-Trichloroethane			Not detected	50	Not detected	50
1,1-Dichloroethane			Not detected	50	Not detected	50
1,1-Dichloroethylene			Not detected	50	Not detected	50
1,1-Dichloropropylene			Not detected	50	Not detected	50
1,2,3-Trichlorobenzene			Not detected	50	Not detected	50
1,2,3-Trichloropropane			Not detected	50	Not detected	50
1,2,4-Trichlorobenzene			Not detected	50	Not detected	50
1,2,4-Trimethylbenzene			1300	50	140000	50
1,2-Dibromo-3-chloropropane			Not detected	50	Not detected	50
1,2-Dibromoethane			Not detected	50	Not detected	50
1,2-Dichlorobenzene			Not detected	50	Not detected	50
1,2-Dichloroethane			Not detected	50	Not detected	50
1,2-Dichloroethylene (Total)			Not detected	50	Not detected	50
1,2-Dichloropropane			Not detected	50	Not detected	50
1,3,5-Trimethylbenzene			990	50	67000	50
1,3-Dichlorobenzene			Not detected	50	Not detected	50
1,3-Dichloropropane			Not detected	50	Not detected	50
1,4-Dichlorobenzene			Not detected	50	Not detected	50
2,2-Dichloropropane			Not detected	50	Not detected	50
2-Chlorotoluene			Not detected	50	Not detected	50
4-Chlorotoluene			Not detected	50	Not detected	50
Benzene			1000	50	2300	50
Bromobenzene			Not detected	50	Not detected	50
Bromochloromethane			Not detected	50	Not detected	50
Bromodichloromethane			Not detected	50	Not detected	50
Bromoform			Not detected	50	Not detected	50
Bromomethane			Not detected	50	Not detected	50
Carbon tetrachloride			Not detected	50	Not detected	50
Chlorobenzene			Not detected	50	Not detected	50
Chloroethane			Not detected	50	Not detected	50
Chloroform			Not detected	50	Not detected	50
Chloromethane			Not detected	50	Not detected	50
cis-1,3-Dichloropropylene			Not detected	50	Not detected	50
Dibromochloromethane			Not detected	50	Not detected	50
Dibromomethane			Not detected	50	Not detected	50
Dichlorodifluoromethane			Not detected	50	Not detected	50
Ethylbenzene			160	50	53000	50
Hexachlorobutadiene			Not detected	50	Not detected	50
Isopropylbenzene			Not detected	50	9500	50
Methylene chloride			Not detected	50	Not detected	50
Naphthalene			220	50	35000	50
n-Butylbenzene			110	50	23000	50
n-Propylbenzene			Not detected	50	26000	50
o-Xylene			3800	50	110000	50
p- & m-Xylenes			5200	50	180000	50
p-Isopropyltoluene			Not detected	50	3500	50
sec-Butylbenzene			Not detected	50	4500	50
Styrene			Not detected	50	Not detected	50
tert-Butylbenzene			140	50	16000	50

YORK

Client Sample ID			3149G/SB-1		3149H/Spill Area	
York Sample ID			00120040-07		00120040-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Tetrachloroethylene			Not detected	50	Not detected	50
Toluene			4000	50	86000	50
trans-1,3-Dichloropropylene			Not detected	50	Not detected	50
Trichloroethylene			Not detected	50	Not detected	50
Trichlorofluoromethane			Not detected	50	Not detected	50
Vinyl chloride			Not detected	50	Not detected	50
MTBE			1300	50	2900	50
BNA-8270 List soil	SW846-8270	ug/Kg	---	---	---	---
1,2,4-Trichlorobenzene			Not detected	3300	Not detected	1700
1,2-Dichlorobenzene			Not detected	3300	Not detected	1700
1,3-Dichlorobenzene			Not detected	3300	Not detected	1700
1,4-Dichlorobenzene			Not detected	3300	Not detected	1700
2,4,5-Trichlorophenol			Not detected	3300	Not detected	1700
2,4,6-Trichlorophenol			Not detected	3300	Not detected	1700
2,4-Dichlorophenol			Not detected	3300	Not detected	1700
2,4-Dimethylphenol			Not detected	3300	Not detected	1700
2,4-Dinitrophenol			Not detected	17000	Not detected	8500
2,4-Dinitrotoluene			Not detected	3300	Not detected	1700
2,6-Dinitrotoluene			Not detected	3300	Not detected	1700
2-Chloronaphthalene			Not detected	3300	Not detected	1700
2-Chlorophenol			Not detected	3300	Not detected	1700
2-Methylnaphthalene			Not detected	3300	26000	1700
2-Methylphenol			Not detected	3300	Not detected	1700
2-Nitroaniline			Not detected	17000	Not detected	8500
2-Nitrophenol			Not detected	3300	Not detected	1700
3,3'-Dichlorobenzidine			Not detected	3300	Not detected	1700
3-Nitroaniline			Not detected	17000	Not detected	8500
4,6-Dinitro-2-methylphenol			Not detected	17000	Not detected	8500
4-Bromophenyl phenyl ether			Not detected	3300	Not detected	1700
4-Chloro-3-methyl phenol			Not detected	3300	Not detected	1700
4-Chloroaniline			Not detected	3300	Not detected	1700
4-Chlorophenyl phenyl ether			Not detected	3300	Not detected	1700
4-Methylphenol			Not detected	3300	Not detected	1700
4-Nitroaniline			Not detected	17000	Not detected	8500
4-Nitrophenol			Not detected	17000	Not detected	8500
Acenaphthene			Not detected	3300	Not detected	1700
Acenaphthylene			Not detected	3300	Not detected	1700
Anthracene			Not detected	3300	Not detected	1700
Benzo(a)anthracene			Not detected	3300	Not detected	1700
Benzo(a)pyrene			Not detected	3300	Not detected	1700
Benzo(b)fluoranthene			Not detected	3300	Not detected	1700
Benzo(g,h,i)perylene			Not detected	3300	Not detected	1700
Benzo(k)fluoranthene			Not detected	3300	Not detected	1700
Benzyl alcohol			Not detected	3300	Not detected	1700
Bis(2-chloroethoxy)methane			Not detected	3300	Not detected	1700
Bis(2-chloroethyl)ether			Not detected	3300	Not detected	1700
Bis(2-chloroisopropyl)ether			Not detected	3300	Not detected	1700
Bis(2-ethylhexyl)phthalate			7500	3300	19000	1700
Butyl benzyl phthalate			Not detected	3300	3800	1700
Chrysene			Not detected	3300	Not detected	1700
Dibenz(a,h)anthracene			Not detected	3300	Not detected	1700
Dibenzofuran			Not detected	3300	Not detected	1700
Diethylphthalate			Not detected	3300	Not detected	1700
Dimethylphthalate			Not detected	3300	Not detected	1700

Client Sample ID			3149G/SB-1		3149H/Spill Area	
York Sample ID			00120040-07		00120040-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Di-n-butylphthalate			Not detected	3300	Not detected	1700
Di-n-octylphthalate			Not detected	3300	3500	1700
Fluoranthene			Not detected	3300	2200	1700
Fluorene			Not detected	3300	Not detected	1700
Hexachlorobenzene			Not detected	3300	Not detected	1700
Hexachlorobutadiene			Not detected	3300	Not detected	1700
Hexachlorocyclopentadiene			Not detected	3300	Not detected	1700
Hexachloroethane			Not detected	3300	Not detected	1700
Indeno(1,2,3-cd)pyrene			Not detected	3300	Not detected	1700
Isophorone			Not detected	3300	Not detected	1700
Naphthalene			Not detected	3300	17000	1700
Nitrobenzene			Not detected	3300	Not detected	1700
N-Nitrosodi-n-propylamine			Not detected	3300	Not detected	1700
N-Nitrosodiphenylamine			Not detected	3300	Not detected	1700
Pentachlorophenol			Not detected	17000	Not detected	8500
Phenanthrene			Not detected	3300	2500	1700
Phenol			Not detected	3300	Not detected	1700
Pyrene			Not detected	3300	3300	1700
PCB	SW846-3550B/8082	mg/Kg	---	---	---	---
PCB 1016			0.65	0.02	0.95	0.02
PCB 1221			Not detected	0.02	Not detected	0.02
PCB 1232			Not detected	0.02	Not detected	0.02
PCB 1242			Not detected	0.02	Not detected	0.02
PCB 1248			Not detected	0.02	Not detected	0.02
PCB 1254			0.48	0.02	0.44	0.02
PCB 1260			Not detected	0.02	0.22	0.02
PCB, Total			1.1	0.02	1.6	0.02
Total RCRA Metals	SW846	mg/kG	---	---	---	---
Arsenic, total			Not detected	1.00	Not detected	1.00
Barium, total			265	0.50	184	0.50
Cadmium, total			13.6	0.50	8.91	0.50
Chromium, total			61.3	0.50	46.6	0.50
Lead, total			837	0.50	1360	0.50
Selenium, total			Not detected	1.00	Not detected	1.00
Silver, total			4.43	0.50	4.12	0.50
Mercury	SW846-7471	mg/kG	1.086	0.25	0.415	0.25

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes:

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. If dilution factor is reported at the end of the compound list, the MDL is determined by multiplying the MDL times the listed dilution factor.
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.

Approved By: Robert Q. Bradley
Managing Director

Date: 12/12/2000

YORK

2016 YORK
ANALYTICAL LABORATORIES, INC.
ONE RESEARCH DRIVE
STAMFORD, CT 06906
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

PO# 18550

Company Name	Report To:	Invoice To:	Project ID/No.	Samples Collected By (Signature) / Name (Printed)
IDC	Jackie Patt	Lana Bowden	LTL Scrap E-0000255	Jacqueline Patt / Jacqueline Patt

Sample No.	Location/ID	Date Sampled	Sample Matrix: Water	Soil	Air	OTHER	ANALYSES REQUESTED	Container Description(s)
3149 A	SB-7	11/30/00		X			8021 Totals, 8270 totals, 8080 PCBs, RCRA metals for all samples	1-8oz
3149 B	SB-6			X				
3149 C	SB-5			X				
3149 D	SB-4			X				
3149 E	SB-3			X				
3149 F	SB-2			X				
3149 G	SB-1							
3149 H	Spill area							

Chain-of-Custody Record

Bottles Relinquished from Lab by	Date/Time	Jacqueline Patt — Sample Relinquished by	Date/Time
Bottles Received in Field by	Date/Time	Sample Relinquished by	Date/Time
Wayne — Sample Received by	12/1 2000 Date/Time		
J. Lee — Sample Received in LAB by	12-1-00 1700 Date/Time		

Comments/Special Instructions

Turn-Around Time
X Standard ___ RUSH(define)_____

APPENDIX III

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-1

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO

Geoprobe

GROUND WATER	DATE	TIME	DEPTH
	7/27/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: — TO —
WEATHER: Overcast TEMP: 80°F
DEPTH TO ROCK: 3'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 84.9'
DATUM: See Remarks
DATE START: 7/27/11
DATE FINISH: 7/27/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLWS IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1				22		D		9" Concrete	
2								Bwn c-f SAND, some c-f Gravel (OVM 0.2 ppm) (FILL)	
3								3" Weathered bedrock	
4								End of Boring at 3'	
5–25									

DEPTH (FT.)

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-2

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/27/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: — TO —
WEATHER: Overcast TEMP: 80°F
DEPTH TO ROCK: 7.5'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 84.7'
DATUM: See Remarks
DATE START: 7/27/11
DATE FINISH: 7/27/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) 1 2 3 4 5
PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % 10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLS/6 IN.)	SAMPLES: SAMPLE NUMBER	SAMPLES: RECOV. LENGTH (IN.)	SAMPLES: RECOV. RQD (%)	SAMPLES: MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1–4				28		M		8.5" Concrete 6" Dk bwn c-f SAND, some c-f Gravel (OVM 0.1ppm) (FILL) Bwn c-f SAND, little Silt, trace c-f Gravel (OVM 0.0ppm) (FILL)	
5–7				40		M		Dk bwn c-f SAND, some c-f Gravel (weathered rock) (OVM 0.2ppm) (FILL)	
8								End of Boring at 7.5'	

DEPTH (FT.) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**

PROJECT: **Lower South Street**

LOCATION: **Peekskill, NY**

BORING No. B-3

SHEET No. 1 of 1

CLIENT: **City of Peekskill**

CONTRACTOR: **General Borings, Inc.**

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO

Geoprobe

GROUND WATER	DATE	TIME	DEPTH
	7/27/11		NE

MON. WELL ☐ YES ☒ NO

SCREEN DEPTH: --- TO ---

WEATHER: **Overcast** TEMP: **80°F**

DEPTH TO ROCK: **2.5'**

*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**

DRILLER: **Jim Casson**

SURFACE ELEVATION: **84.7'**

DATUM: **See Remarks**

DATE START: **7/27/11**

DATE FINISH: **7/27/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖ 1 2 3 4 5

PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △

10 20 30 40 50

STANDARD PENETRATION (BLOWS/FT.) ● 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLS/6 IN.)	SAMPLES: SAMPLE NUMBER	SAMPLES: RECOV. LENGTH (IN.)	SAMPLES: RECOV. RQD (%)	SAMPLES: MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1								7" Concrete		1
2								Bwn c-f SAND, some c-f Gravel (FILL) (OVM 0.0ppm) (FILL)		2
3								End of Boring at 2.5'		3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**
PROJECT: **Lower South Street**
LOCATION: **Peekskill, NY**

BORING No. B-4

SHEET No. 1 of 1

CLIENT: **City of Peekskill**
CONTRACTOR: **General Borings, Inc.**

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/27/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: -- TO --
WEATHER: **Overcast** TEMP: **85°F**
DEPTH TO ROCK: **2'**
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**
DRILLER: **Jim Casson**
SURFACE ELEVATION: **84.5'**
DATUM: **See Remarks**
DATE START: **7/27/11**
DATE FINISH: **7/27/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖ 1 2 3 4 5
PLASTIC LIMIT % ⊗ WATER CONTENT % △ LIQUID LIMIT %
10 20 30 40 50
● STANDARD PENETRATION (BLOWS/FT.) 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1				9		M		7.5" Concrete Bwn-gy-rd m-f SAND, and c-f Gravel (OVM 0.0ppm) (FILL)		1
2										2
3								End of Boring at 2'		3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-5

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/27/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: — TO —
WEATHER: Overcast TEMP: 85°F
DEPTH TO ROCK: 1'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 84.5'
DATUM: See Remarks
DATE START: 7/27/11
DATE FINISH: 7/27/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLI6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1				6		M		8.5" Concrete Gy weathered rock (OVM 0.0ppm) No Sample Collected	
								End of Boring at 1'	

DEPTH (FT.): 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**
PROJECT: **Lower South Street**
LOCATION: **Peekskill, NY**

BORING No. B-6

SHEET No. 1 of 1

CLIENT: **City of Peekskill**
CONTRACTOR: **General Borings, Inc.**

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/27/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: **Overcast** TEMP: **85°F**
DEPTH TO ROCK: ---
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**
DRILLER: **Jim Casson**
SURFACE ELEVATION: **84.7'**
DATUM: **See Remarks**
DATE START: **7/27/11**
DATE FINISH: **7/27/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) 1 2 3 4 5
PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT % 10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLS IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1-4				12		D		7.5" Concrete Bwn c-f SAND, some c-f Gravel (brick pieces) (OVM 0.1ppm) (FILL)	
5-8				15		D		6" Same (OVM 0.2ppm) (FILL) 2" Asphalt 7" Glass with Bwn c-f SAND, some c-f Gravel (OVM 0.2ppm) (FILL)	
9-10				20		D		3" Same (OVM 0.0ppm) (FILL) Bwn c-f SAND, little c-f Gravel (OVM 0.2ppm) (FILL)	
11-25								End of Boring at 10'	

DEPTH (FT.)

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**
PROJECT: **Lower South Street**
LOCATION: **Peekskill, NY**

BORING No. B-7

SHEET No. 1 of 1

CLIENT: **City of Peekskill**
CONTRACTOR: **General Borings, Inc.**
METHOD OF ADVANCING BORING | DIA. | DEPTH
POWER AUGER: | | TO
ROT. DRILL: | | TO
CASING: | | TO
DIAMOND CORE: | | TO
Geoprobe

GROUND WATER: DATE **7/28/11** | TIME | DEPTH **NE**
MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: **Overcast** TEMP: **70°F**
DEPTH TO ROCK: **3'**
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**
DRILLER: **Jim Casson**
SURFACE ELEVATION: **84.6'**
DATUM: **See Remarks**
DATE START: **7/28/11**
DATE FINISH: **7/28/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖ 1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ● 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1								2" Asphalt (OVM 1.6ppm)		1
2				24		M		5" Dk bwn c-f SAND, some c-f Gravel (OVM 6.6ppm) (brick pieces) (FILL)		2
3								12" Blk/bwn c-f SAND, some c-f Gravel (OVM 0.7ppm) (brick/glass pieces)		3
4								1" Brick		4
5								2" Glass, m-f Sand (OVM 0.8ppm) (FILL)		5
6										6
7								End of Boring at 3'		7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-8

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/28/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Overcast TEMP: 70°F
DEPTH TO ROCK: 2.5'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 84.6'
DATUM: See Remarks
DATE START: 7/28/11
DATE FINISH: 7/28/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1				21		M		4" Asphalt (OVM 1.4ppm) Dk bwn c-f SAND, some c-f Gravel (brick and wood pieces) (OVM 0.3ppm at top, OVM 0.7ppm @ middle, OVM 1.1ppm @ bottom) (FILL)		1
2										2
3								End of Boring at 2.5'		3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-9

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/28/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Overcast TEMP: 75°F
DEPTH TO ROCK: ---
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 84.0'
DATUM: See Remarks
DATE START: 7/28/11
DATE FINISH: 7/28/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖ 1 2 3 4 5
PLASTIC LIMIT % ⊗ WATER CONTENT % △ LIQUID LIMIT %
10 20 30 40 50
● STANDARD PENETRATION (BLOWS/FT.) 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLS/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1–4				30		M		2" Asphalt Dk bwn c-f SAND, and c-f Gravel (brick pieces) (OVM 1.1ppm @ top, OVM 0.9ppm @ bottom) (FILL)		1–4
5								End of Boring at 4'		5
6–25										6–25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**
PROJECT: **Lower South Street**
LOCATION: **Peekskill, NY**

BORING No. B-10

SHEET No. 1 of 1

CLIENT: **City of Peekskill**
CONTRACTOR: **General Borings, Inc.**
METHOD OF ADVANCING BORING | DIA. | DEPTH
POWER AUGER: | | TO
ROT. DRILL: | | TO
CASING: | | TO
DIAMOND CORE: | | TO
Geoprobe

GROUND WATER	DATE	TIME	DEPTH
	7/28/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: **Overcast** TEMP: **75°F**
DEPTH TO ROCK: **4'**
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**
DRILLER: **Jim Casson**
SURFACE ELEVATION: **84.6'**
DATUM: **See Remarks**
DATE START: **7/28/11**
DATE FINISH: **7/28/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖ 1 2 3 4 5
PLASTIC LIMIT % | WATER CONTENT % | LIQUID LIMIT % 10 20 30 40 50
● STANDARD PENETRATION (BLOWS/FT.) 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLS IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1–4				30		M		2" Asphalt Dk bwn c-f SAND, some c-f Gravel (brick pieces) (OVM 0.9ppm) (FILL) 4" c-f GRAVEL 1" Brick 3" c-f SAND, some Gravel (OVM 3.0ppm) (FILL) 3.5" Weathered bedrock	
5								End of Boring at 4'	

DEPTH (FT.): 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**
PROJECT: **Lower South Street**
LOCATION: **Peekskill, NY**

BORING No. B-11

SHEET No. 1 of 1

CLIENT: **City of Peekskill**
CONTRACTOR: **General Borings, Inc.**
METHOD OF ADVANCING BORING | DIA. | DEPTH
POWER AUGER: | | TO
ROT. DRILL: | | TO
CASING: | | TO
DIAMOND CORE: | | TO
Geoprobe

GROUND WATER: DATE **7/28/11** | TIME | DEPTH **NE**

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: **Overcast** TEMP: **70°F**
DEPTH TO ROCK: **2'**
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**
DRILLER: **Jim Casson**
SURFACE ELEVATION: **84.5'**
DATUM: **See Remarks**
DATE START: **7/28/11**
DATE FINISH: **7/28/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖ 1 2 3 4 5
PLASTIC LIMIT % × | WATER CONTENT % ⊗ | LIQUID LIMIT % △
10 20 30 40 50
● STANDARD PENETRATION (BLOWS/FT.) 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1				17		M		2" Asphalt (OVM 1.3ppm) Dk bwn c-f SAND, some c-f Gravel, trace Silt (glass & brick) (OVM 0.8ppm) (FILL) 3" Weathered rock	
2									
3								End of Boring at 2'	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

DEPTH (FT.)

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**

PROJECT: **Lower South Street**

LOCATION: **Peekskill, NY**

BORING No. B-12

SHEET No. 1 of 1

CLIENT: **City of Peekskill**

CONTRACTOR: **General Borings, Inc.**

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/28/11		NE

MON. WELL ☐ YES ☒ NO

SCREEN DEPTH: --- TO ---

WEATHER: **Overcast** TEMP: **75°F**

DEPTH TO ROCK: **2'**

*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**

DRILLER: **Jim Casson**

SURFACE ELEVATION: **84.75'**

DATUM: **See Remarks**

DATE START: **7/28/11**

DATE FINISH: **7/28/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖ 1 2 3 4 5

PLASTIC LIMIT % — WATER CONTENT % — LIQUID LIMIT % ×——⊗——△ 10 20 30 40 50

STANDARD PENETRATION (BLOWS/FT.) ● 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLI6 IN.)	SAMPLES: SAMPLE NUMBER	SAMPLES: RECOV. LENGTH (IN.)	SAMPLES: RECOV. RQD (%)	SAMPLES: MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1				17		M		2" Asphalt 3" Bwn c-f SAND, some c-f Gravel (brick pieces) (OVM 0.9ppm) (FILL) Dk bwn c-f SAND, some c-f Gravel (fine glass) (OVM 1.1ppm @ top, OVM 0.7ppm @ bottom)	
2									
3								End of Boring at 2'	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

DEPTH (FT.)

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-13

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.
METHOD OF ADVANCING BORING | DIA. | DEPTH
POWER AUGER: | | TO
ROT. DRILL: | | TO
CASING: | | TO
DIAMOND CORE: | | TO
Geoprobe

GROUND WATER: DATE 7/28/11 | TIME | DEPTH NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: — TO —
WEATHER: Overcast TEMP: 80°F
DEPTH TO ROCK: 1'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 85.5'
DATUM: See Remarks
DATE START: 7/28/11
DATE FINISH: 7/28/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % ⊗ WATER CONTENT % △ LIQUID LIMIT %
10 20 30 40 50
● STANDARD PENETRATION (BLOWS/FT.)
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLS/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1				8		M		2" Asphalt Dk bwn c-f SAND, some c-f Gravel (OVM 0.3ppm) (brick pieces) (FILL)		1
2										2
3								End of Boring at 1'		3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-14

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/28/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: — TO —
WEATHER: Overcast TEMP: 80°F
DEPTH TO ROCK: 2'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 84.9'
DATUM: See Remarks
DATE START: 7/28/11
DATE FINISH: 7/28/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	SAMPLES: RECOV. LENGTH (IN.)	SAMPLES: RECOV. RQD (%)	SAMPLES: MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1				22		M		1" Asphalt 3" Dk bwn c-f SAND, some Gravel (OVM 0.9ppm) (FILL) 4" Asphalt (OVM 1.1ppm) (FILL) Blk c-f SAND, some c-f Gravel (wood pieces) (OVM 1.8ppm)	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

End of Boring at 2'

DEPTH (FT.)

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**
PROJECT: **Lower South Street**
LOCATION: **Peekskill, NY**

BORING No. B-15

SHEET No. 1 of 1

CLIENT: **City of Peekskill**
CONTRACTOR: **General Borings, Inc.**

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/28/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: **Overcast** TEMP: **80°F**
DEPTH TO ROCK: **5'**
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**
DRILLER: **Jim Casson**
SURFACE ELEVATION: **84.1'**
DATUM: **See Remarks**
DATE START: **7/28/11**
DATE FINISH: **7/28/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % | WATER CONTENT % | LIQUID LIMIT %
10 20 30 40 50
● STANDARD PENETRATION (BLOWS/FT.)
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1								1" Asphalt	
2				32		M		6" Dk bwn c-f SAND, some c-f Gravel (brick pieces) (OVM 0.9ppm) (FILL)	
3								13" Blk-bwn c-f SAND, little c-f Gravel (wood.brick) (OVM 0.8ppm @ top, OVM 0.5 @ bottom) (FILL)	
4								Bwn c-f SAND, some c-f Gravel (brick pieces) (OVM 0.9ppm) (FILL)	
5				8		M		Same (OVM 1.0ppm) (FILL)	
								4" Dk bwn c-f SAND, weathered bedrock (OVM 0.4ppm) (FILL)	
6									
7								End of Boring at 5'	
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

DEPTH (FT.)

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-16

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/28/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Overcast TEMP: 80°F
DEPTH TO ROCK: 2.5'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 85.0'
DATUM: See Remarks
DATE START: 7/28/11
DATE FINISH: 7/28/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1				27		M		2" Asphalt Dk bwn c-f SAND, little c-f Gravel (OVM 1.3ppm @ top, OVM 0.8ppm @ bottom) (FILL) 10" Weathered bedrock		1
2										2
3								End of Boring at 2.5'		3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**
PROJECT: **Lower South Street**
LOCATION: **Peekskill, NY**

BORING No. B-17

SHEET No. 1 of 1

CLIENT: **City of Peekskill**
CONTRACTOR: **General Borings, Inc.**

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/28/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: **Overcast** TEMP: **80°F**
DEPTH TO ROCK: **7'**
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**
DRILLER: **Jim Casson**
SURFACE ELEVATION: **82.8'**
DATUM: **See Remarks**
DATE START: **7/28/11**
DATE FINISH: **7/28/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1–4				44		M		1" Asphalt 2" Dk bwn c-f SAND, some c-f Gravel (brick) (OVM 0.2ppm) (FILL) 5" Asphalt with c-f Sand (OVM 0.2ppm) Dk bwn c-f SAND, some c-f Gravel, trace Silt (OVM 0.3ppm) (FILL)		1–4
5–7				20		M		Same (OVM 0.8ppm @ top, OVM 0.2 ppm @ bottom) (FILL) 7" Tn-bwn Weathered bedrock (OVM 0.2ppm)		5–7
8–25								End of Boring at 7'		8–25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**
PROJECT: **Lower South Street**
LOCATION: **Peekskill, NY**

BORING No. B-18

SHEET No. 1 of 1

CLIENT: **City of Peekskill**
CONTRACTOR: **General Borings, Inc.**
METHOD OF ADVANCING BORING | DIA. | DEPTH
POWER AUGER: | | TO
ROT. DRILL: | | TO
CASING: | | TO
DIAMOND CORE: | | TO
Geoprobe

GROUND WATER: DATE **7/28/11** | TIME | DEPTH **NE**
MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: — TO —
WEATHER: **Overcast** TEMP: **80°F**
DEPTH TO ROCK: ---
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**
DRILLER: **Jim Casson**
SURFACE ELEVATION: **79.6'**
DATUM: **See Remarks**
DATE START: **7/28/11**
DATE FINISH: **7/28/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖ 1 2 3 4 5
PLASTIC LIMIT % ✕ | WATER CONTENT % ⊗ | LIQUID LIMIT % △ 10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ● 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1-4				30		M		8" Asphalt (OVM 0.1ppm) Dk bwn c-f SAND, some c-f Gravel (brick/asphalt pieces) (OVM 0.0ppm) (FILL)	
5-8				32		M		16" Same (FILL) Bwn c-f SAND, some Clayey Silt, little Gravel (OVM 0.0ppm) (FILL) 6" Gy-bwn CLAYEY SILT, little m-f Sand (OVM 0.0ppm) (FILL)	
9-12				38		M		Same (OVM 0.0 ppm) (FILL)	
13								End of Boring at 12'	

DEPTH (FT.): 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-19

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/28/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Overcast TEMP: 85°F
DEPTH TO ROCK: 6'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 76.3'
DATUM: See Remarks
DATE START: 7/28/11
DATE FINISH: 7/28/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) 1 2 3 4 5
PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT % 10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1-4				34		M		6" Asphalt Dk bwn c-f SAND, some c-f Gravel (OVM 0.0ppm) (FILL)	
5-6				17		M		Same (FILL) 3" Weathered bedrock	
								End of Boring at 6'	

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-20

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.
METHOD OF ADVANCING BORING | DIA. | DEPTH
POWER AUGER: | | TO
ROT. DRILL: | | TO
CASING: | | TO
DIAMOND CORE: | | TO
Geoprobe

GROUND WATER | DATE | TIME | DEPTH
7/26/11 | | NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: -- TO --
WEATHER: Clear TEMP: 80°F
DEPTH TO ROCK: 0.6'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 63.2'
DATUM: See Remarks
DATE START: 7/26/11
DATE FINISH: 7/26/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖ 1 2 3 4 5
PLASTIC LIMIT % ✕ | WATER CONTENT % ⊗ | LIQUID LIMIT % △
10 20 30 40 50
● STANDARD PENETRATION (BLOWS/FT.) 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1								6" Bwn c-f SAND, some c-f Gravel (OVM 0.0 ppm) (FILL) Weathered rock in spoon tip		1
2										2
3								End of Boring at 0.6'		3
4										4
5										5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-21

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO

Geoprobe

GROUND WATER	DATE	TIME	DEPTH
	7/26/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Clear TEMP: 80°F
DEPTH TO ROCK: 3.5'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 62.0'
DATUM: See Remarks
DATE START: 7/26/11
DATE FINISH: 7/26/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ● 1 2 3 4 5
PLASTIC LIMIT % ⊗ WATER CONTENT % △ LIQUID LIMIT % 10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ● 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLWS IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1								2" Bwn c-f SAND, some c-f Gravel (OVM 0.4ppm) (FILL)	
2				20		M		4" Gy-bwn c-f SAND, some c-f Gravel (OVM 9.6ppm) (FILL)	
3								6" Blk c-f SAND, little c-f Gravel (organics) (OVM 56.8ppm) (FILL)	
4								8" Gy m-f SAND, some c-f Gravel (Weathered rock) (OVM 56.8ppm) (FILL)	
5								End of Boring at 3.5'	
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

DEPTH (FT.)

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-22

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/26/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Clear TEMP: 85°F
DEPTH TO ROCK: 4'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 62.4'
DATUM: See Remarks
DATE START: 7/26/11
DATE FINISH: 7/26/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLI6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV.: LENGTH (IN.)	RECOV.: RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1–4								4" Topsoil 2' Bwn c-f SAND, some c-f Gravel (OVM 0.4ppm) (FILL) 1.5' Blk c-f SAND, little c-f Gravel (organics/wood pieces) (OVM 3.4ppm) (FILL)		1–4
5								End of Boring at 4'		5
6–25										6–25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-23

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/26/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Clear TEMP: 80°F
DEPTH TO ROCK: ---
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 62.75'
DATUM: See Remarks
DATE START: 7/26/11
DATE FINISH: 7/26/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT %
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV.: LENGTH (IN.)	RECOV.: RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1–4								3" Topsoil 1.5' Dk bwn c-f SAND, some m-f Gravel 1.5" Blk-gy Clayey Silt 3" Blk CLAYEY SILT, some c-f Sand 6" Bwn m-f SAND, little Silt (OVM = 0.0ppm) (FILL)		1–4
5–6								6" Blk c-f SAND, little Silt, trace Gravel (FILL) 6" Gy-bwn m-f SAND, little Silt (FILL) 10" Bwn-gy CLAYEY SILT, little c-f Sand		5–6
7–25								End of Boring at 6'		7–25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-24

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/27/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Clear TEMP: 80°F
DEPTH TO ROCK: ---
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 64.1'
DATUM: See Remarks
DATE START: 7/27/11
DATE FINISH: 7/27/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1-4				29		M		10" Concrete 3" Bwn c-f SAND, and c-f Gravel (FILL) 14" Blk c-f Sand, little Gravel (FILL) (Asphalt/tile pieces and wood chips) (OVM 0.3ppm) (FILL) 12" Dk bwn-blk c-f SAND, little Gravel (OVM 0.2ppm) (FILL)	
5-8				48		M		10" Same (OVM 0.3ppm) (FILL) Bwn m-f SAND, and Silt (OVM 0.0ppm)	
9								End of Boring at 8'	

DEPTH (FT.): 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-25

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/27/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: — TO —
WEATHER: Clear TEMP: 80°F
DEPTH TO ROCK: ---
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 63.5'
DATUM: See Remarks
DATE START: 7/27/11
DATE FINISH: 7/27/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1–4				25		M		8" Asphalt 7" Dk bwn c-f SAND, some Gravel (OVM 0.8ppm) (FILL) 3" Blk c-f SAND, little Gravel (OVM 1.1ppm) (FILL) 5" Dk bwn c-f SAND, little Gravel (OVM 0.5ppm) (FILL)	
5–8				48		M		Bwn m-f SAND, and Silt (OVM 0.0ppm)	
9–25								End of Boring at 8'	

DEPTH (FT.)

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**
PROJECT: **Lower South Street**
LOCATION: **Peekskill, NY**

BORING No. B-26

SHEET No. 1 of 1

CLIENT: **City of Peekskill**
CONTRACTOR: **General Borings, Inc.**
METHOD OF ADVANCING BORING | DIA. | DEPTH
POWER AUGER: | | TO
ROT. DRILL: | | TO
CASING: | | TO
DIAMOND CORE: | | TO
Geoprobe

GROUND WATER: DATE **7/26/11** | TIME | DEPTH **NE**
MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: — TO —
WEATHER: **Clear** TEMP: **85°F**
DEPTH TO ROCK: ---
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**
DRILLER: **Jim Casson**
SURFACE ELEVATION: **60.7'**
DATUM: **See Remarks**
DATE START: **7/26/11**
DATE FINISH: **7/26/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊕ 1 2 3 4 5
PLASTIC LIMIT % ✕ | WATER CONTENT % ⊗ | LIQUID LIMIT % △ 10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ● 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1–4				28		M		6" Asphalt 4" Bwn c-f SAND, some Gravel (OVM 0.3ppm) 2" Same with brick (OVM 0.4ppm) (FILL) 1" Lgt gy m-f SAND, some Gravel (OVM 1.6ppm) (FILL) Dk gy m-f SAND, some Gravel (OVM 1.9ppm) (FILL)	
5				10		M		Same (OVM 0.6ppm) (FILL)	
6–25								End of Boring at 5.5'	

DEPTH (FT.): 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**
PROJECT: **Lower South Street**
LOCATION: **Peekskill, NY**

BORING No. B-27

SHEET No. 1 of 1

CLIENT: **City of Peekskill**
CONTRACTOR: **General Borings, Inc.**

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/26/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: **Clear** TEMP: **80°F**
DEPTH TO ROCK: ---
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**
DRILLER: **Jim Casson**
SURFACE ELEVATION: **60.2'**
DATUM: **See Remarks**
DATE START: **7/26/11**
DATE FINISH: **7/26/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % | WATER CONTENT % | LIQUID LIMIT %
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1-4				36		M		2" Asphalt 1' Dk gy c-f SAND, some c-f Gravel (FILL) 1.5' Blk c-f SAND (wood chips/mulch) (OVM 1.8 ppm) (FILL) Gy c-f SAND, little Gravel (OVM 0.4ppm)	
5-8				32		M		Same (OVM 0.5ppm) (FILL)	
9-12				25		M	ML	2" Same (OVM 0.4ppm) (FILL) Bwn-gy c-f SAND, little Gravel, trace Silt (OVM 0.0ppm) (FILL) 3" Clayey Silt, little m-f Sand (OVM 0.0ppm)	
13-15				23		M	ML SM	8" Same 10" Gy CLAYEY SILT, little m-f Sand Bwn m-f SAND, some Silt	
16-25								End of Boring at 15'	

DEPTH (FT.)

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-28

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/26/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: -- TO --
WEATHER: Clear TEMP: 85°F
DEPTH TO ROCK: 3'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 60.1'
DATUM: See Remarks
DATE START: 7/26/11
DATE FINISH: 7/26/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV.: LENGTH (IN.)	RECOV.: RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1				20		M		1" of wood (FILL) 2" Blk c-f SAND, some Gravel (OVM 0.4ppm) Bwn/gy c-f SAND, some Gravel (OVM 8.5ppm) (FILL)	
2									
3								End of Boring at 3'	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

DEPTH (FT.)

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-29

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO

Geoprobe

GROUND WATER	DATE	TIME	DEPTH
	7/26/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Clear TEMP: 85°F
DEPTH TO ROCK: 4.5'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 60.8'
DATUM: See Remarks
DATE START: 7/26/11
DATE FINISH: 7/26/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) 1 2 3 4 5
PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT % 10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1-4				26		M		2" Asphalt Blk c-f SAND, little c-f Gravel (brick pieces) (OVM 7.8ppm) (Petroleum odor) (FILL) Some woods chips/organics @ 3.5' - 4' bgs	
5								End of Boring at 4.5'	

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-30

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/26/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Clear TEMP: 80°F
DEPTH TO ROCK: 3.5'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 60.1'
DATUM: See Remarks
DATE START: 7/26/11
DATE FINISH: 7/26/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) 1 2 3 4 5
PLASTIC LIMIT % / WATER CONTENT % / LIQUID LIMIT % 10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1-3				24		M		1' Bwn c-f SAND, and Gravel 1' Blk c-f SAND, some Gravel (wood pieces/organics) (OVM 0.2ppm) (FILL) 2" Brick Blk-gy c-f SAND, some Gravel (brick pieces) (OVM 1.2 ppm) (FILL)	
4								End of Boring at 3.5'	

DEPTH (FT.): 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**
PROJECT: **Lower South Street**
LOCATION: **Peekskill, NY**

BORING No. B-31

SHEET No. 1 of 1

CLIENT: **City of Peekskill**
CONTRACTOR: **General Borings, Inc.**
METHOD OF ADVANCING BORING | DIA. | DEPTH
POWER AUGER: | | TO
ROT. DRILL: | | TO
CASING: | | TO
DIAMOND CORE: | | TO
Geoprobe

GROUND WATER: DATE | TIME | DEPTH
7/26/11 | | NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: **Clear** TEMP: **80°F**
DEPTH TO ROCK: **6'**
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**
DRILLER: **Jim Casson**
SURFACE ELEVATION: **61.7'**
DATUM: **See Remarks**
DATE START: **7/26/11**
DATE FINISH: **7/26/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖ 1 2 3 4 5
PLASTIC LIMIT % ✕ | WATER CONTENT % ⊗ | LIQUID LIMIT % △ 10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ● 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1–4				28		M		4" Topsoil 3" Concrete 2" Bwn m-f SAND, little Gravel (OVM 1.4 ppm) Blk c-f SAND, some c-f Gravel (Petroleum odor) (OVM 10.8ppm) (FILL)		
5–6				10		M		Same (brick pieces) (OVM 2.4ppm) (Petroleum odor) (Fill) (Refusal @ 6'		
7–25								End of Boring at 6'		

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-32

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/26/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Clear TEMP: 80°F
DEPTH TO ROCK: 4'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 62.1'
DATUM: See Remarks
DATE START: 7/26/11
DATE FINISH: 7/26/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	SAMPLES: RECOV. LENGTH (IN.)	SAMPLES: RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1								4" Topsoil		1
2								18" Blk-gy c-f SAND, some c-f Gravel (OVM 0.2ppm) (FILL)		2
3								20" Blk c-f SAND, some c-f Gravel (OVM 0.6ppm) (FILL)		3
4								Refusal rock in tip		4
5								End of Boring at 4'		5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-33

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/26/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: — TO —
WEATHER: Clear TEMP: 80°F
DEPTH TO ROCK: 1.5'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 62.5'
DATUM: See Remarks
DATE START: 7/26/11
DATE FINISH: 7/26/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLI6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV.: LENGTH (IN.)	RECOV.: RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1				22		M		4" Topsoil 14" Blk c-f SAND, some c-f Gravel (OVM 3.6ppm) (brick pieces) (FILL) Refusal @ 1.5'	
2									
3								End of Boring at 1.5'	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

DEPTH (FT.)

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-34

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.
METHOD OF ADVANCING BORING | DIA. | DEPTH
POWER AUGER: | | TO
ROT. DRILL: | | TO
CASING: | | TO
DIAMOND CORE: | | TO
Geoprobe

GROUND WATER	DATE	TIME	DEPTH
	7/27/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Clear TEMP: 70°F
DEPTH TO ROCK: 5'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 58.9'
DATUM: See Remarks
DATE START: 7/27/11
DATE FINISH: 7/27/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ● 1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ● 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1–4				40		D		3" Concrete Dk bwn c-f SAND, some c-f Gravel (brick pieces) OVM 0.9ppm @ top, OVM 4.4 ppm @ middle, OVM 6.3 ppm @ bottom) (FILL)	
5				10		D		Same (OVM 1.8ppm)	
								End of Boring at 5'	

DEPTH (FT.) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. **5886.01**
PROJECT: **Lower South Street**
LOCATION: **Peekskill, NY**

BORING No. B-35

SHEET No. 1 of 1

CLIENT: **City of Peekskill**
CONTRACTOR: **General Borings, Inc.**

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/27/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: **Clear** TEMP: **75°F**
DEPTH TO ROCK: **15'**
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: **Lori Bart**
DRILLER: **Jim Casson**
SURFACE ELEVATION: **59.1'**
DATUM: **See Remarks**
DATE START: **7/27/11**
DATE FINISH: **7/27/11**

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖ 1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ● 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1-4				30		M		3" c-f GRAVEL, little c-f Sand (OVM 0.4ppm) 5" Dk bwn c-f SAND, little Gravel (OVM 0.5ppm) (FILL) 1" Dk bwn c-f SAND, some c-f Gravel (OVM 0.6ppm @ top OVM 1.8 ppm @ bottom) (FILL)		1-4
5-8				32		M		Same (OVM 0.4 ppm @ top, OVM 0.8 ppm @ middle, OVM 0.2 ppm @ bottom) (FILL) 13" Asphalt pieces 22" Lgt bwn m-f SAND and boulder (FILL)		5-8
9-12				27		M		Same (OVM 0.8ppm @ top, OVM 0.2 @ middle & bottom) Brick & asphalt pieces @ 13' (FILL) 2" Concrete in bottom, rock in spoon tip		9-12
13-15				18		M		Dk bwn c-f SAND, some c-f Gravel (brick/asphalt) (OVM 0.1ppm) (FILL) Lgt bwn c-m Gravel, little Sand (OVM 0.0 ppm) Dk bwn c-f Sand, and Gravel (FILL) Refusal due to weathered rock in spoon tip		13-15
16-25								End of Boring at 15'		16-25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-36

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO

Geoprobe

GROUND WATER	DATE	TIME	DEPTH
	7/28/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: -- TO --
WEATHER: Overcast TEMP: 85°F
DEPTH TO ROCK: 2'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 61.0'
DATUM: See Remarks
DATE START: 7/28/11
DATE FINISH: 7/28/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BLI6 IN.)	SAMPLES: SAMPLE NUMBER	SAMPLES: RECOV. LENGTH (IN.)	SAMPLES: RECOV. RQD (%)	SAMPLES: MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1				10		D		1" Asphalt Bwn c-f SAND, some c-f Gravel (brick pieces) (OVM 2.4ppm) (FILL)	
2									
3								End of Boring at 2'	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

DEPTH (FT.)

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-37

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.

METHOD OF ADVANCING BORING	DIA.	DEPTH
POWER AUGER:		TO
ROT. DRILL:		TO
CASING:		TO
DIAMOND CORE:		TO
Geoprobe		

GROUND WATER	DATE	TIME	DEPTH
	7/28/11		NE

MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: — TO ---
WEATHER: Overcast TEMP: 85°F
DEPTH TO ROCK: 3'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 61.5'
DATUM: See Remarks
DATE START: 7/28/11
DATE FINISH: 7/28/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖
1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ●
10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*	DEPTH (FT.)
1				28		M		6" Asphalt		1
2								Blk-bwn c-f SAND, some c-f Gravel (OVM 6.1ppm) (FILL)		2
3								7" Gy-bwn c-f SAND, some c-f Gravel (OVM 3.0ppm) (FILL)		3
4								Blk c-f SAND and c-f Gravel (OVM 0.3ppm)		4
5								End of Boring at 3'		5
6										6
7										7
8										8
9										9
10										10
11										11
12										12
13										13
14										14
15										15
16										16
17										17
18										18
19										19
20										20
21										21
22										22
23										23
24										24
25										25

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

TECTONIC *ENGINEERING & SURVEYING CONSULTANTS P.C.*

PROJECT No. 5886.01
PROJECT: Lower South Street
LOCATION: Peekskill, NY

BORING No. B-38

SHEET No. 1 of 1

CLIENT: City of Peekskill
CONTRACTOR: General Borings, Inc.
METHOD OF ADVANCING BORING | DIA. | DEPTH
POWER AUGER: | | TO
ROT. DRILL: | | TO
CASING: | | TO
DIAMOND CORE: | | TO
Geoprobe

GROUND WATER: DATE 7/28/11 | TIME | DEPTH NE
MON. WELL ☐ YES ☒ NO
SCREEN DEPTH: --- TO ---
WEATHER: Overcast TEMP: 85°F
DEPTH TO ROCK: 3.5'
*CHANGES IN STRATA ARE INFERRED

INSPECTOR: Lori Bart
DRILLER: Jim Casson
SURFACE ELEVATION: 62.3'
DATUM: See Remarks
DATE START: 7/28/11
DATE FINISH: 7/28/11

UNCONFINED COMPRESS. STRENGTH (TONS/FT) ⊖ 1 2 3 4 5
PLASTIC LIMIT % × — WATER CONTENT % ⊗ — LIQUID LIMIT % △
10 20 30 40 50
STANDARD PENETRATION (BLOWS/FT.) ● 10 20 30 40 50

DEPTH (FT.)	N OR MIN./FT.	PENETRATION RESISTANCE (BL/6 IN.)	SAMPLES: SAMPLE NUMBER	RECOV. LENGTH (IN.)	RECOV. RQD (%)	MOISTURE	UNIFIED SOIL CLASS.	DESCRIPTION OF MATERIAL	LITHOLOGY*
1								7" Bwn c-f SAND, some Gravel (brick pieces) (OVM 0.2ppm) (FILL)	
2				39		M		9" Blk c-f SAND, little Gravel (layer of wood chips) (OVM 6.9ppm) (FILL)	
3								5" Bwn c-f SAND, little Gravel (OVM 2.1ppm) Blk/bwn little GRAVEL, trace Silt (OVM 0.3ppm) (FILL)	
4								6" Weathered rock	
5								End of Boring at 3.5'	
6–25									

REMARKS:

BORING LOG 5886-01.GPJ TECTONIC ENG.GDT 10/4/11

APPENDIX IV

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-1
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	83.2'
Equipment:	Ford 655A Excavator	Depth to Bedrock:	1'	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
	M		1' Dk bwn c-f SAND, some c-f Gravel, little Cobble, trace Silt Bedrock @ 1' (OVM 0.0ppm)		
			End of Test Pit @ 1.0' Due to bedrock		
					Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-2
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	83.6'
Equipment:	Ford 655A Excavator	Depth to Bedrock:	5'	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
	M	SP-SM	5' Bwn c-f SAND, little c-f Gravel, trace Silt, cobbles (OVM 0.0ppm)		
			End of Test Pit @ 5' Due to Bedrock		Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-3
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	83.2'
Equipment:	Ford 655A Excavator	Depth to Bedrock:	4'	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
	D	SP-SM	Lgt bwn-or c-f SAND, trace Silt		
			End of Test Pit @ 4.0' Due to Bedrock		Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-4
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	46'
Equipment:	Ford 655A Excavator	Depth to Bedrock:	NE	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
	D		Boulder/Cobbles (junk, i.e metal, rubber) Excavated 6' into stock pile		Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-5
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	50'
Equipment:	Ford 655A Excavator	Depth to Bedrock:	NE	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
			Small boulders and cobbles, trace c-f Gravel (rubber, metal, glass, plastic)		
			Excavated 8' into stock pile		
					Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-6
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	52'
Equipment:	Ford 655A Excavator	Depth to Bedrock:	NE	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
	M		1' Bwn Topsoil over Blk c-f SAND, some f Gravel, little Silt (mics. Pieces of plastic, glass, rubber)		Test pit excavated into stockpile Peak OVM 44 ppm strong petroleum odor from test pit
			End of Test Pit @ 7'		
					Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-7
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	43.4'
Equipment:	Ford 655A Excavator	Depth to Bedrock:	NE	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
	D	SP	Bwn c-f SAND, some c-f Gravel, little cobbles (old foundation & some bricks in excavation) (FILL)		No odor (0.0ppm) Test pit excavated at site of former building footprint
			End of Test Pit @ 10'		
					Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-8
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	42.7'
Equipment:	Ford 655A Excavator	Depth to Bedrock:	10'	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
		SP	Bwn c-f SAND, some c-f Gravel, little cobbles/boulders (FILL)		No odor (OVM 0.0 ppm)
			weathered rock at bottom of test pit		Test pit excavated at site of former building footprint
			End of Test Pit @ 10'		Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-9
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	
Equipment:	Ford 655A Excavator	Depth to Bedrock:	5'	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
			Bwn-or c-f SAND, some Gravel, little Cobbles/boulders, trace Silt		Test pit excavated at site of former building footprint
			End of Test Pit @ 5' Due to Bedrock		Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-10
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	35.7'
Equipment:	Ford 655A Excavator	Depth to Bedrock:	NE	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
	M	SM	Bwn c-f SAND, some Gravel, little Silt (FILL)		Hand dug sediment sample in sediment retention pond forebay
					Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-11
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	36.5'
Equipment:	Ford 655A Excavator	Depth to Bedrock:	0'	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
			Bedrock outcrop - no soil or sediment at location		Test pit location in sediment **retention backbay** Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-12
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	60.6'
Equipment:	Ford 655A Excavator	Depth to Bedrock:	NE	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
	M		2" Asphalt Blk c-f SAND, some Gravel, trace Silt (brick pieces and mulch/ wood) (FILL) Pipes @ 3.5' bgs (OVM 3.2ppm)		
			End of Test Pit @ 5'		Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

TECTONIC	W.O. No. 5886.01	Date 8/1/11	TEST PIT TP-13
(800) 829-6531	Project: Lower South Street		
	Location: Peekskill, NY		

Client:	City of Peekskill	Depth to Seepage:	NE	Inspector:	Lori Bart
Contractor:	General Borings, Inc.	Depth to Groundwater:	NE	Surface Elevation:	62.6'
Equipment:	Ford 655A Excavator	Depth to Bedrock:	NE	Datum:	See Remarks

SAMPLES		Unified Soil Classification	DESCRIPTION OF MATERIAL	Strata Change (ft.)	REMARKS
Sample No.	Moisture				
	M		7" Asphalt		
		SP	16" Blk c-f SAND, some c-f Gravel (brick pieces) (OVM 0.5ppm)		
			Fabric Layer		
		GP	10" Gravel Fill (OVM 0.2ppm)		
		SP	10" Blk c-f SAND, some c-f Gravel (brick pieces) (FILL)		
		ML	Bwn CLAYEY SILT, trace m-f Sand (OVM 0.0ppm)		
			End of Test Pit @ 5'		Elevations determined by Tectonic field survey performed on September 2, 2011.

PARTICLE SIZE		PROPORTION (exclusive of boulders & cobbles)	PROPORTION (boulders & cobbles)		MOISTURE
Boulder: 10"(+)	Sand: No.200 Sieve-3/16"	trace: 0-10%	sparse:	0-10%	D: dry
Cobble: 3-10"	Silt/Clay: No.200 Sieve (-)	little: 10-20%	few:	10-35%	M: moist
Gravel: 3/16"-3"		some: 20-35%	many:	35-65%	W: wet
		and: 35-50%			

APPENDIX V