

Remedial Investigation Report

Location:

Proposed Port of Rochester Marina and Garage 4810 Lake Avenue and 1000 North River Road Rochester, New York 14612

Prepared for:

City of Rochester Division of Environmental Quality City Hall – Room 300B 30 Church Street Rochester, New York 14614

LaBella Project No. 206377

March 2007

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1.0 Introduction and Background

Currently the City of Rochester owns property within the Port of Rochester located at 4810 Lake Avenue and 1000 North River Street within the City of Rochester, Monroe County, New York which includes areas targeted for redevelopment as a marina and an underground parking garage. The Site location is illustrated on Figure 1.

The portion of the Port of Rochester targeted for development as a proposed marina is located to the north and northwest of the existing Ferry Terminal building and is shown on Figure 2. The footprint of the proposed marina is approximately 300-feet (north-south) by 550-feet (east-west). The estimated excavation depth of the marina is 13-feet below the existing surface grade. [Note: Based on constraints of the area (i.e. the Terminal Building to the south and utilities and walkways to the north), it is assumed for the purposes of this evaluation that the proposed marina area defined above includes the required construction area for wall systems (e.g. tie backs).]

The portion of the Port of Rochester targeted for a parking garage is generally located in the existing parking lot to the west of the access road for the Ferry Terminal building and south of Corrigan Street and is also shown on Figure 2. This area is approximately 225-feet (east-west) by 225-feet (north-south). The estimated excavation depth for construction of the proposed parking garage which will be partially below grade is 18-feet below the existing surface grade.

The development areas for the proposed marina and proposed underground garage, as described above, will hereafter be referred to as "the Site".

Based on previous environmental investigations conducted at the Port of Rochester Site, it has been documented that slag, cinders, foundry waste and other man-made fill has been placed as backfill within the footprint of the two proposed development areas. In addition, a former railroad turntable was located in the north-central portion of the footprint of the proposed marina development (refer to Figure 2). The fill materials and historical Site use represent an environmental concern for redevelopment of the Site. As such, the City of Rochester requested that a Remedial Investigation (RI) be completed to evaluate environmental issues associated with the redevelopment of the marina and underground garage at the Port of Rochester Site.

The primary focus of this RI was to evaluate the horizontal and vertical extent of Regulated Solid Waste and slag at the Site, to evaluate for localized areas of subsurface impacts due to historic operations and/or fill materials, and to analyze and characterize the regulated solid waste to identify potential constituents of environmental concern.

2.0 Objective

The specific objectives of this Remedial Investigation were as follows:

 Define the nature and extent of contamination on-site, specifically the limits and thickness of fill layers that contain slag and other Regulated Solid Waste;

- Identify contaminant sources;
- Provide verifiable analytical results in accordance with the quality assurance procedures as defined by Section 2 of the New York State Department of Environmental Conservation (NYSDEC) Department of Environmental Remediation Technical Guidance Document No. 10 (DER-10);
- Evaluate fill materials in general accordance with NYSDEC DER-10 Section 3.11 (Historic Fill Material);
- Define groundwater characteristics including: approximate soil permeability, impacts to groundwater, depth to saturated zone, hydrogeologic gradients, and current and potential groundwater use; and
- Evaluate the need for augmenting the existing Environmental Management Plan (EMP) for managing Regulated Solid Waste and the need for engineering and/or institutional controls for use during the Port of Rochester redevelopment.

The Scope of Work was completed in order to generally meet the requirements of the Municipal Assistance for Environmental Restoration Projects Procedures Handbook dated July 2004.

3.0 Scope of Work

To accomplish the above objectives, the following Scope of Work was implemented as part of the RI:

- 1. LaBella prepared a Remedial Investigation Work Plan to act as a guide in accomplishing the project objectives. The RI Work Plan included a site-specific Health and Safety Plan (HASP) in accordance with applicable Federal, State and local statutes and regulations, a Quality Assurance Project Plan conforming to NYSDEC Environmental Restoration Program (ERP) protocols and NYSDEC DER-10 guidance, and a Community Air Monitoring Plan (CAMP);
- 2. An Underground Facilities Protection Organization (UFPO) stakeout was conducted at the Site, to locate subsurface utilities in the areas where the subsurface assessment and delineation would take place. Based on the available information regarding underground utilities at the Site, LaBella prepared a digitized map of all existing underground utilities at the Site and created a Geographic Information System (GIS) shapefile.
- 3. LaBella Associates retained the services of Nothnagle Drilling Company (Nothnagle), a specialized environmental drilling contractor, to implement the soil and groundwater sampling program within and in proximity to the footprints of the proposed marina and garage at the Site. The fieldwork was completed in two phases between August 29, 2006 and November 9, 2006. Eighteen (18) test borings were advanced and three (3) groundwater monitoring wells were installed as part of the first round of fieldwork conducted between August 31 and September 1, 2006. Subsequent to receiving and reviewing the soil and groundwater analytical data for Round 1, an additional twenty-four (24) soil borings were advanced for the second round of fieldwork which was conducted between November 6 and 9, 2006. [Note: The RI Work Plan was designed to implement the fieldwork in three (3) phases. However, based on the findings of the first round of the investigation and in consultation with the City of Rochester DEQ, rounds 2 and 3 were

combined and conducted simultaneously.] Upon completion of combined Rounds 2 and 3 for the proposed marina development area, an additional three (3) test borings were advanced (with one (1) boring converted to a groundwater monitoring well) on November 9 and 10, 2006. These additional investigative points were designed to provide additional coverage for the proposed garage area at the Site. Specifically, the test borings were completed in the following areas:

- Test borings BH-1 through BH-6 were advanced in the vicinity of the reported location of a former railroad tracks and railroad turntable located in the north-central portion of the proposed marina study area;
- Test boring BS-1 through BS-36 were advanced within and in proximity to the footprint of the proposed marina study area;
- Test borings BS-37 through BS-39 were advanced within the footprint of the proposed underground parking garage. In addition, test borings BS-10 and BS-27, which were completed for the investigation of the proposed marina study area, but were located on the northern edge of the proposed garage study area, were also used to evaluate subsurface conditions for the proposed garage study area.

The test boring locations are presented on Figure 2.

- 4. Soils from the borings were continuously assessed for the presence of fill materials, Regulated Solid Waste, visible impairment, olfactory indications of impairment, and/or indication of detectable volatile organic compounds (VOCs) on a Photo-Ionization Detector (PID) total VOC meter. Positive indications from any of these screening methods were collectively referred to as "evidence of impairment." Evidence of impairment and the presence of Regulated Solid Waste gathered at the time of the fieldwork was used to determine the monitoring well locations and was also used to roughly determine the vertical and horizontal extent of impairment and fill layers containing Regulated Solid Waste.
- 5. Soil and representative fill samples were selected for analysis based on evidence of impairment and the nature of the fill materials. Samples were analyzed for one or more of the following analytical parameters based on the location collected, physical makeup, and the suspect constituents of concern:
 - VOC analysis by United States Environmental Protection Agency (USEPA) Method 8260B Target Compound List (TCL) plus twenty (20) Tentatively Identified Compounds (TICs);
 - VOC analysis by United States Environmental Protection Agency (USEPA) Method 8260B TCL;
 - VOC analysis by United States Environmental Protection Agency (USEPA) Method 8260B TCL and NYSDEC Spill Technology and Remediation Series (STARS) Compounds;
 - Full Base Neutral semi-volatile organic compound (SVOC) analysis by USEPA Method 8270C TCL plus twenty (20) Tentatively Identified Compounds (TICs);
 - SVOC analysis by USEPA Method 8270C TCL;

- SVOC analysis by USEPA Method 8270C NYSDEC STARS;
- Priority Pollutant List (PPL) Metals analysis by USEPA Methods 6010 and 7471;
- Target Analyte List (TAL) Metals analysis by USEPA Methods 6010 and 7471;
- Resource Conservation and Recovery Act (RCRA) Metals analysis by USEPA Methods 6010 and 7471;
- Polychlorinated Biphenyl (PCB) analysis by USEPA Method 8082A;
- Pesticide analysis by USEPA Method 8081B;
- Cyanide analysis by USEPA Method 9012A;
- Total Organic Carbon (TOC) analysis by the KAHN Method;
- Total Petroleum Hydrocarbon (TPH) analysis by USEPA Method 1664; and/or
- Arsenic, Cadmium, Chromium and Mercury analysis by USEPA Methods 6010 and 7471.
- 6. A total of three (3) shallow, two-inch diameter polyvinyl chloride (PVC) groundwater monitoring wells were installed within selected boreholes completed within the proposed marina area of the Site. In addition, one (1) shallow, two-inch diameter polyvinyl chloride (PVC) groundwater monitoring well was installed within the proposed underground garage area of the Site. The locations of the monitoring wells are illustrated on Figure 2. Groundwater samples were analyzed for a combination of the following analyses based on the location collected and the issue of concern:
 - VOC analysis by United States Environmental Protection Agency (USEPA) Method 8260B TCL;
 - SVOC analysis by USEPA Method 8270C TCL;
 - TAL Metals analysis by USEPA Methods 6010 and 7471;
 - PCB analysis by USEPA Method 8082A; and
 - Pesticide analysis by USEPA Method 8081B.
- 7. Soil, fill and groundwater samples were collected in laboratory supplied bottleware and sent under Chain of Custody procedures to Severn-Trent Laboratories, Inc. (STL) of Buffalo, New York for analysis under the NYSDEC Analytical Services Protocol (ASP) Category B deliverable to produce a validatable data package. STL is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory for the parameters tested.
- 8. LaBella surveyed the location of each test boring utilizing a Trimble Model GeoXT global positioning system (GPS) unit equipped with Trimble GeoBeacon radio frequency cross-referencing unit.

- 9. LaBella surveyed the top-of-casing for each monitoring well to a Rochester Topographic Survey (RTS) monument to provide a measurement point for each well relative to a common datum. The casing elevations and static water levels were used to generate Site-specific groundwater contours and to calculate groundwater hydraulic gradients.
- 10. LaBella conducted rising head hydraulic conductivity tests on three (3) selected monitoring wells at the Site to determine the hydraulic conductivity of the screened area in the vicinity of the tested wells.

4.0 Rotary Drill Rig Test Boring and Groundwater Investigation

4.1 Methodology

Soil Boring Program

Borings for the investigation of the proposed marina and underground garage area at the Site were advanced with a truck-mounted rotary drill. The use of rotary drilling technology allows for relatively rapid sampling, observation and characterization of discrete intervals of overburden soils. The borings for the first round of the investigation of the proposed marina area were completed utilizing a Brainhard-Kimar Model BK-81 truck-mounted rotary drill rig. The borings for the combined second and third rounds of the investigation of the proposed marina area and the investigation of the proposed garage area were completed utilizing a CME Model 75 truck-mounted rotary drill rig. Both rigs were equipped with 4.25-inch inside diameter (ID) hollow-stem augers to penetrate the overburden and 2-inch by 2-foot split-spoon samplers. The split-spoons were driven into the soil using a 140-pound safety hammer allowed to freefall 30-inches in accordance with American Society for Testing and Materials (ASTM)-D 1586-84 standard procedures. The number of blows needed to drive the sampler each 6-inches of penetration were recorded on the Soil Boring Log sheets which are included in Appendix 1.

Each split-spoon sampler was decontaminated prior to each use with an Alconox detergent and water solution wash followed by a potable water rinse. The soil augers, drilling tools and split-spoon samplers were also decontaminated utilizing a pressurized steam cleaner between each boring.

At each sampling location, soils were sampled continuously over the entire length of the boring. Each soil sample was visually inspected by a LaBella environmental geologist for the presence of fill layers (primarily slag), stains and monitored with a PID to help determine potential for vertical migration of contaminants. The test borings were sampled continuously over the entire depth of the boring. The sampling device was decontaminated according to procedures outlined in the decontamination section of the RI Work Plan. Soil samples were classified in accordance with Unified Soil Classification System (USCS) specifications, and logged on the Soil Boring Log datasheets.

• A total of eighteen (18) test borings (designated BH-1 through BH-6 and BS-1 through BS-12) were advanced at the Site for the first round of the investigation of the proposed marina area on August 29 through September 1, 2006. A total of twenty-four (24) test borings (designated BS-13 through BS-36) were advanced at the Site for the combined second and third rounds of the investigation of the proposed marina area on November 6 through November 9, 2006. Finally, three (3) test borings (designated BS-37 through BS-39) were

advanced at the Site for the investigation of the proposed underground garage area on November 9 and 10, 2006.

All soil and representative fill samples were placed in laboratory supplied bottle wear, stored in coolers with ice packs and transported under chain of custody procedures to LaBella's office. Upon arrival at LaBella's office, the samples were placed in LaBella's sample refrigerator until submitted for laboratory testing. Selected soil samples chosen for analytical testing were placed in a cooler with ice packs and transported under chain of custody procedures by a laboratory supplied currier to STL for analysis.

Overburden Well Installation Program:

Three (3) shallow overburden groundwater monitoring wells were installed within three of the test borings advanced within the footprint of the proposed marina at the Site on August 29 through September 1, 2006. Monitoring well MW-BH6 was installed within test boring BH-6 to assess groundwater conditions in the former railroad turntable in the north-central portion of the proposed marina footprint. Monitoring well MW-BS5 was installed within test boring BS-5 to assess groundwater conditions in the southwest portion of the proposed marina footprint. Monitoring well MW-BS6 was installed within test boring BS-6 to assess groundwater conditions in the northeast portion of the proposed marina footprint. In addition, one (1) shallow overburden groundwater monitoring well, MW-BS39, was installed within test boring BS-39 to assess groundwater conditions in the footprint of the proposed underground garage.

The wells were constructed using 15 to 18-feet of 0.010 inch slotted; 2 inch ID Schedule 40 PVC well screen manifolded to an appropriate length of 2-inch ID Schedule 40 PVC riser pipe installed to the base of the boring. The length of each well screen was designed to intercept the top of the water table within the boring, allowing for the observation and sampling of light, non-aqueous phase liquids (LNAPL), if encountered. A filterpack consisting of 00N quartz sand was installed in the annular space surrounding the well to a height of approximately 0.5 to 1.9-feet above the top of the well screen. A bentonite pellet seal was then installed above the sand pack to prevent the intrusion of surface runoff. Each well was completed with a flushmount road box set in a 1 foot thick concrete pad.

A minimum of two days after completion of the well, each well was developed by alternately surging and bailing the well using a dedicated, polyethylene bailer. No dispersing agents, acids, disinfectants, or other additives were used during development or introduced into the well at any other time. During development, water was removed throughout the entire water column using the dedicated bailer and staged on-site in 55-gallon steel drums pending analytical results. The well development included washing the entire well cap and the interior of the well casing above the water table, using only water from the well itself.

The development process continued until the following water quality parameters stabilized: pH, specific conductance, temperature, and clarity (goal of <50 NTUs) or for a maximum of two hours. For each well, the parameters pH, specific conductance, and temperature stabilized after the removal of 10 to 11 well volumes from the well. However, the clarity of the water in each well remained greater than 1,000 NTUs with no observable improvement in the turbidity of the development water.

After final development of the well, water levels were recorded and a sample of the purge water from each well was collected in a clear glass jar, labeled and photographed, and submitted as part of the well log. The photograph was taken to show the relative clarity of the water. Visual identification of the physical characteristics of removed sediments was recorded.

A minimum of two days after completion of development, the four (4) wells at the Site were purged and sampled using low flow methodologies on November 15, 2006. [Note: Low-flow sampling was conducted in order to reduce the amount of entrained sediments in the sample. The City of Rochester DEQ was consulted prior to initiating the low-flow sampling.] The samples were collected using a Geotech Series II Peristaltic Pump. A length of dedicated polyethylene tubing was placed in each well with the bottom of the tubing installed to the midpoint of the well screen for the well. In addition, a new section of flexible tubing was installed in the pumping wheels for each well to prevent crosscontamination of the samples. Field measurements of the parameters pH, specific conductance, ORP, turbidity and temperature were collected using a Hach SensIon Model 156 water quality meter.

Water quality parameter readings were recorded at regular intervals. Groundwater samples were collected after the purging parameters had stabilized to ±5 percent and the turbidity of the purge water was below 50 NTUs. Samples for analysis for SVOCs, PCBs, pesticides and metals were collected using the peristaltic pump. The tubing was then removed from the well, and the well was then allowed to rest for a minimum of 1-hour prior to the collection of samples for VOC analysis which were collected using the bailer dedicated to each well. Groundwater sampling logs that include the in-field parameters measurements are included in Appendix 1.

STL in Buffalo, New York analyzed the groundwater samples. STL is a NYSDOH ELAP-certified laboratory. The samples were submitted to STL for analysis of the following parameters:

- VOC analysis by United States Environmental Protection Agency (USEPA) Method 8260B TCL;
- SVOC analysis by USEPA Method 8270C TCL;
- TAL Metals analysis by USEPA Methods 6010 and 7471;
- PCB analysis by USEPA Method 8082A; and
- Pesticide analysis by USEPA Method 8081B.

All groundwater samples were placed in laboratory supplied bottle wear, stored in coolers with ice packs and transported under chain of custody procedures to STL for analysis by a laboratory supplied currier.

Copies of the groundwater development and sampling logs are presented in Appendix 1.

In-Situ Hydraulic Conductivity Testing:

Hydraulic Conductivity Testing was completed on monitoring wells MW-BH6, MW-BS5, and MW-BS39 on November 27, 2006. The single-well, rising head conductivity tests were performed in order to determine the in-place hydraulic conductivity of unconsolidated and/or consolidated geologic materials, which occur in the monitoring interval of the newly installed wells. Due to the anticipated high recovery rate of the wells at the Site, the tests were performed by removing one bailer of water with the recovery measured utilizing an In-Situ MiniTroll pressure transducer system.

The rising head tests were conducted as follows:

- The static water level in the well to be tested was measured and recorded;
- The pressure transducer was then placed in the well to a minimum depth of five feet below the static water level;
- Readings were made using the data logger until three consecutive readings were the same (equilibrium conditions);
- The data logger was then calibrated to read 0.00-feet at static conditions. The dedicated bailer for the well being tested was then lowered into the well and placed just below the water surface.
- Water level measurements were made until the water level returns to static conditions following introduction of the bailer;
- Once static conditions were reestablished, the bailer was rapidly removed from the water column
 thereby creating an instantaneous decline of the water level in the well. Coincident with the
 withdrawal of the bailer, automatic logging of the water levels was initiated using the data logger;
- Water level measurements were made automatically at half second intervals using the data logger until water level recovered to within a minimum of 10 percent of the original static water level (90 percent recovery);
- Using the test data collected for each rising head hydraulic conductivity test, the estimated hydraulic conductivity of each well was calculated using the Bouwer and Rice Method.

Copies of the Hydraulic Conductivity Test Calculation Reports are presented in Appendix 2.

4.2 Field Activities

The test borings completed at the Site were advanced to depths ranging from 14.0 to 22.0-feet below the ground surface with all borings terminated in native soil deposits. The soil and fill materials collected from the borings was continuously assessed by a LaBella Associates' Environmental Geologist for soil type, changes in lithology, and evidence of impairment.

Soil Type (Geology) — Proposed Marina Study Area:

Within the proposed Port marina study area, Topsoil deposits were encountered at the ground surface in test borings BS-2, BS-3, BS-6, BS-9 through BS-14, BS-16, BS-17, BS-20, BS-21, BS-24, and BS-27 through BS-30. These Topsoil deposits generally consisted of dark brown fine-grained SAND with trace to little Silt and trace to little medium to fine-grained Gravel and containing organic matter including roots, root traces and humus. The Topsoil deposits were found to range from 0.2 to 0.7-feet in thickness. Asphalt pavement, generally 5 to 6-inches thick with an underlying 5 to 6-inch layer of crushed gravel subbase was encountered at the ground surface at test boring locations BH-1 through BH-6, BS-1, BS-4, BS-5, BS-7, BS-15, BS-22, BS-23, BS-25, BS-26 and BS-31 through BS-34.

Soils encountered at the ground surface at test boring locations BS-18, BS-19, BS-35 and BS-36 and beneath either the Topsoil layer or asphalt pavement/subbase with all the remaining borings within the proposed marina study area consisted of Fill Material. The Fill Material deposits ranged in texture from a coarse to fine-grained SAND with some coarse to a fine-grained Gravel to fine-grained SAND with trace to no Silt and trace to no fine-grained Gravel. The Fill Material deposits were identifiable by the presence of man-made materials including slag, cinders, foundry sand, ash, concrete fragments, asphalt, refractory sand, coal dust and fragments, brick fragments, creosote treated wood and/or glass. Fill Material deposits within the proposed marina study area ranged from 0.4 to approximately 9-feet thick with the thicker fill material deposits generally located in the southern and eastern portions of the study area in the vicinity of test borings BS-5, BS-6, BS-9, BS-14, BS-16, BS-17, BS-21, BS-27, BS-28, BS-29 and BS-31. Fill Material deposits containing Regulated Solid Waste within the proposed marina study area ranged from approximately 1 to 7-feet thick and were generally thicker within the southern portion of the study area. In the northern portion of the study area, slag and foundry waste were generally mixed with native soil or encountered in thin layers that did not appear to be continuous across the area. The concentrations of slag and foundry wastes within the Fill Material deposits appeared to increase southward with test borings completed in the southern portion of the study area containing layers of nearly pure slag, cinders, ash, and/or ash containing little or no soil. Based on visual observation, four distinct types of slag waste were encountered within the Fill Material. These included a blue-green slag, a black metallic slag, a gray slag and a white slag. The average thickness of Fill Materials encountered within the proposed marina study area, including existing asphalt pavement and Regulated Solid Waste, was determined to be 4.5-feet with a total estimated volume to be excavated of approximately 22,495 cubic yards. The average thickness of Regulated Solid Waste encountered within the proposed marina study area was determined to be 3.0-feet with a total estimated volume to be excavated of approximately 14,470 cubic yards.

The Fill Material within all borings completed within the proposed marina study area was underlain by native soil deposits consisting of Lacustrine (beach) deposits mixed with Alluvial (deltaic) deposits. These native soil deposits generally ranged in texture from coarse to fine-grained SAND with trace to no Silt & Clay and trace to no fine-grained Gravel to Clayey SILT with trace to no very fine-grained Sand. Peat was also encountered within the native soil deposits either mixed with sand and silt or in thin layers composed predominantly of peat.

Bedrock was not encountered in any test borings completed in the proposed marina study area to depths of 20-feet below ground surface. Based upon the findings of previous investigations completed within the Port of Rochester, the depth to bedrock beneath the proposed marina study area ranges from approximately 55-feet below ground surface in the western portion of the study area to 67-feet below ground surface in the eastern portion of the study area along the Genesee River.

Groundwater contours were derived from water level elevations collected on November 15, 2006 from the three monitoring wells installed within the proposed marina study area and one monitoring well installed within the proposed underground garage study area. The depth to water on November 15, 2006 within the proposed marina study area ranged from approximately 4.4 to 6.0-feet BGS with a groundwater elevation of approximately 247-feet above mean sea level. The hydraulic gradient across the proposed marina study area was relatively flat with hydraulic gradients ranging from 0.00038-feet/foot in the eastern portion of the study area to 0.0018-feet/foot in the western portion of the study area. Groundwater flow beneath the proposed marina study area generally toward the south-southwest.

The approximate locations of the test borings and monitoring wells completed within the proposed marina study area is presented as Figure 2. A contour map of the thicknesses of the regulated solid waste encountered within the fill material is presented as Figure 3. A contour map of the water table beneath the study area for water levels collected November 15, 2006 is presented as Figure 4.

Soil Type (Geology) — Proposed Underground Garage Area:

Three test borings, designated BS-37 through BS-39 were completed within the proposed Port underground garage study area. In addition, test borings BS-10 and BS-27, which were completed for the investigation of the proposed marina study area, but are located in near proximity to the proposed garage study area, were also used to evaluate subsurface conditions in the proposed garage study area. A Topsoil deposit was encountered at the ground surface in test borings BS-10 and BS-37. This Topsoil deposit ranged from 0.5 to 0.6-feet thick and consisted of dark brown fine-grained SAND with little Silt and trace to little fine-grained Gravel containing organic matter including roots, root traces and humus. Asphalt pavement, generally 6-inches thick with an underlying 7 to 8-inch layer of crushed gravel subbase was encountered at the ground surface at test boring location BS-27, BS-38 and BS-39. The average thickness of Fill Materials encountered within the proposed garage study area, including existing asphalt pavement and Regulated Solid Waste, is approximately 13.0-feet with a total estimated volume to be excavated of approximately 22,290-cubic yards. The average thickness of Regulated Solid Waste encountered within the proposed marina study area was determined to be 11.9-feet with a total estimated volume to be excavated of approximately 19,570-cubic yards.

A Fill Material deposit was encountered beneath the topsoil or surface asphalt/subbase layers within all three borings completed within the proposed underground garage study area. This Fill Material deposit ranged from approximately 4.3-feet thick at boring BS-10 to 18.05-feet thick at boring BS-39. The Fill Material deposit was identifiable by the presence of man-made materials including slag, foundry sand, and ash. The Fill Material deposit encountered within the proposed underground garage study was composed predominantly of slag with some to little ash and trace to no native soil material. Based on visual observation, five distinct types of slag waste were encountered within the fill material. These included a blue-green slag, a greenish-gray slag, a black metallic slag, a gray slag and a white slag. In addition, based on visual observations, blow counts and the behavior of the augers while drilling, the slag layers appeared to be partially fused.

Bedrock was not encountered in any test borings completed in the proposed underground garage study area to depths of 22-feet below ground surface. Based upon the findings of previous investigations completed within the Port of Rochester, the depth to bedrock beneath the proposed underground garage study area ranges from approximately 55 to 60-feet below ground surface.

Groundwater contours were derived from water level elevations collected on November 15, 2006 from the three monitoring wells installed within the proposed marina study area and one monitoring well installed within the proposed underground garage study area. The depth to water on November 15, 2006 within the proposed garage study area well MW-BS39 was 8.2-feet BGS with a groundwater elevation of approximately 246.8-feet above mean sea level. The hydraulic gradient across the proposed garage study area was relatively flat with a hydraulic gradient of approximately 0.00046-feet/foot. Groundwater flow beneath the proposed marina study area generally toward the southwest.

The approximate locations of the test borings and monitoring wells completed within the proposed underground garage study area are presented as Figure 2. A contour map of the thicknesses of the regulated solid waste encountered within the fill material is presented as Figure 3. A contour map of the water table beneath the study area for water levels collected November 15, 2006 is presented as Figure 4.

PID Field Screening:

Tables 1A and 1B show PID readings collected from the test borings completed within the proposed marina and proposed underground garage study areas at the time of the fieldwork.

As noted in Tables 1A and 1B, elevated PID readings (greater than 5.0 ppm) were encountered in soil collected from test borings BS-21, BS-22, BS-27 and BS-28 which were completed in the proposed marina study area as well as test borings BS-38 and BS-39 which were completed within the proposed underground marina study area.

The approximate locations of test borings and groundwater monitoring wells at the Site are depicted on Figure 2 (attached). Copies of the Test Boring Logs, Monitoring Well Construction Logs, Monitoring Well Development Logs and Monitoring Well Sampling Logs are included in Appendix 1.

5.0 Analytical Testing and Results

A total of twenty-eight (28) soil and representative fill samples were submitted for laboratory testing from twenty-three (23) test borings completed for the RI of the proposed marina study area. Twenty (20) soil and representative fill samples were submitted for laboratory testing from fifteen (15) test borings completed on August 29 through September 1, 2006 for the first round of the RI of the proposed marina study area. An additional eight (8) soil and representative fill samples were submitted for laboratory testing from eight (8) test borings completed on November 6 through November 9, 2006 for the combined second and third rounds of the RI of the proposed marina study area. In addition, a total of three (3) groundwater samples collected from wells completed within the proposed marina study area were submitted for laboratory testing on November 15, 2006.

A total of three (3) representative fill samples were submitted for laboratory testing from three (3) test borings completed on November 9 and 10, 2006 for the RI Investigation of the proposed underground garage study area. In addition, one (1) groundwater sample collected from monitoring well MW-BS39 which was completed within the proposed underground garage study area was submitted for laboratory testing on November 15, 2006.

All samples were sent under Chain of Custody control to STL in Amherst, New York.

5.1 Soil Sampling—Proposed Marina Study Area

The soil and representative fill samples submitted for laboratory analysis and the analytical method utilized are shown in Tables 1A and 1B. In addition, the soil/fill sampling results are also shown on Figures 5 and 5A.

The analytical test results for the soil samples are compared to the Remedial Program Soil Cleanup Objectives (RPSCOs) referenced in 6 NYCRR Subpart 375-6, effective December 14, 2006, for the Protection of Public Health—Commercial Use and for the Protection of Groundwater. A discussion of the soil sampling results for the proposed marina study area is provided below.

Volatile Organic Compounds—Proposed Marina Study Area:

Summary of the VOC analytical results for soil and representative fill samples from the first round and the combined second and third rounds of the RI of the proposed marina study area are presented in Tables 2A and 2B.

As shown in Tables 2A and 2B, VOCs were detected above the reported laboratory method detection limits (MDLs) in eleven (11) of the eighteen (18) soil and representative fill samples analyzed. The detected VOCs included acetone, methylene chloride, trichlorofluoromethane, carbon disulfide and naphthalene. In most cases, the detected compounds were qualified by the laboratory as being estimated values below the quantitation limit (but greater than zero) or were detected in the laboratory blanks associated with the analysis. None of the VOCs detected were at concentrations exceeding either their associated RPSCOs for Commercial Use or the Protection of Groundwater.

Semi-Volatile Organic Compounds—Proposed Marina Study Area:

Summary of the SVOC analytical results for soil and representative fill samples from the first round and the combined second and third rounds of the RI of the proposed marina study area are presented in Tables 3A and 3B.

As shown on Tables 3A and 3B, SVOCs were detected above the reported laboratory MDLs in eleven (11) of the eighteen (18) soil and representative fill samples analyzed. The detected SVOCs included acenaphthalene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, pyrene, bis-2-EthylHexyl Phthalate, Carbazole, Dibenzofuran and 2-Methylnaphthalene.

The concentrations of benzo(a)anthracene detected in the samples collected from test borings BS-5 [1.0'-6.2'] and BS-30 [0.5'-1.1'] were 1,800 and 20,000-ug/kg, respectively. These concentrations exceed the RPSCO for the Protection of Groundwater of 1,000-ug/kg. In addition, the detected concentration of benzo(a)anthracene for the sample collected from BS-30 also exceeded its RPSCO for Commercial Use of 5,600-ug/kg.

The concentrations of benzo(b)fluoranthene detected in the samples collected from test borings BS-5 [1.0'-6.2'] and BS-30 [0.5'-1.1'] were 1,600 and 27,000-ug/kg, respectively. These concentrations exceed its RPSCO for the Protection of Groundwater of 1,700-ug/kg. In addition, the detected concentration of benzo(b)fluoranthene for the sample collected from BS-30 also exceeded its RPSCOs for Commercial Use of 5,600-ug/kg.

The concentration of benzo(k)fluoranthene detected in the sample collected from test boring BS-30 [0.5'-1.1'] was 11,000-ug/kg which exceeds its RPSCO for the Protection of Groundwater of 1,700-ug/kg, but was below its RPSCO for Commercial Use of 56,000-ug/kg.

The concentrations of benzo(a)pyrene detected in the samples collected from test borings BS-5 [1.0'-6.2'] and BS-30 [0.5'-1.1'] ranged from 2,200 to 21,000-ug/kg, respectively. These concentrations exceed its RPSCO for Commercial Use of 1,000-ug/kg, but were below its RPSCO for the Protection of Groundwater of 22,000-ug/kg.

The concentrations of chrysene detected in the samples collected from test borings BS-5 [1.0'-6.2'] and BS-30 [0.5'-1.1'] were 1,600 and 18,000-ug/kg, respectively. These concentrations exceed its RPSCO for the Protection of Groundwater for chrysene of 1,000-ug/kg, but were below its RPSCO for Commercial Use of 56,000-ug/kg.

The concentration of dibenz(a,h)anthracene detected in the sample collected from test boring BS-30 [0.5'-1.1'] was 3,300-ug/kg which exceeds its RPSCO for Commercial Use of 560-ug/kg, but was below its RPSCO for the Protection of Groundwater of 1,000,000-ug/kg. The detected value of dibenz(a,h)anthracene was qualified by the laboratory as being an estimated value below the quantitation limit, but greater than zero.

The concentration of indeno(1,2,3-cd)pyrene detected in the sample collected from test boring BS-30 [0.5'-1.1'] was 9,500-ug/kg which exceeds its RPSCO for the Protection of Groundwater of 8,200-ug/kg as well as its RPSCO for the Protection of Public Health—Commercial Use of 5,600-ug/kg.

Soil samples from test borings BS-5 [1.0'-6.2'], BS-9 [2.0'-4.6'], and BS-9 [6.0'-6.9'] were also analyzed for tentatively identified SVOCs. The detected concentrations of total tentatively identified SVOCs ranged from 720 to 6,840-ug/kg. The detected concentrations of total SVOCs, including TICs ranged from non-detectable levels to 211,980-ug/kg. The NYSDEC has not currently developed RPSCO for total SVOCs (i.e. summation of total SVOCs detected).

No other SVOCs were detected at concentrations exceeding either their associated RPSCO for the Protection of Groundwater or their associated RPSCO for the Protection of Public Health—Commercial Use.

Pesticides—Proposed Marina Study Area:

A summary of the Pesticide analytical results for soil and representative fill samples from the first round of the RI of the proposed marina study area is presented in Table 4. No soil samples from the combined second and third rounds of the RI of the proposed marina study area were analyzed for pesticides.

As noted in Table 4, the pesticides beta-BHC, delta-BHC, gamma-BHC, 4,4'-DDD, 4,4'-DDT, dieldrin, endosulfan II, endosulfan sulfate, endrin, endrin aldehyde, heptachlor epoxide, and methoxychlor were detected at levels above the reported laboratory MDLs in samples collected from test borings BS-5 [1.0'-6.2'], BS-7 [1.0'-2.8'], BS-7 [4.0'-7.6'], BS-9 [2.0'-4.6'] and BS-9 [6.0'-6.9']. None of the pesticides detected were at concentrations exceeding either their associated RPSCO for the Protection of Groundwater or RPSCO for the Protection of Public Health—Commercial Use.

PCBs—Proposed Marina Study Area:

PCBs were not detected in the seven (7) soil and representative fill samples submitted from the proposed marina study area at concentrations above the reported laboratory MDLs.

<u>Metals—Proposed Marina Study Area:</u>

A summary of the metals analytical results for soil and representative fill samples from the first round and the combined second and third rounds of the RI of the proposed marina study area are presented in Tables 5A and 5B.

As shown on Tables 5A and 5B, metals were detected above the reported laboratory MDLs in all twenty-three (23) of the soil and representative fill samples analyzed from the proposed marina study area. The detected metals included aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, silver, sodium, vanadium and zinc.

The detected concentrations of arsenic in the samples collected from test borings BS-27 [4.5'-5.5'] and BS-31 [2.0'-2.9'] were 18.5 and 18.7-mg/kg, respectively. These concentrations slightly exceeds the RPSCO for the Protection of Groundwater of 16-mg/kg and the RPSCO for the Protection of Public Health—Commercial Use of 16-mg/kg.

The detected concentration of barium in the sample collected from test boring BH-5 [1.0'-4.2'] was 558-mg/kg which exceeds its RPSCO for the Protection of Public Health—Commercial Use of 400-mg/kg, but was below its RPSCO for the Protection of Groundwater of 820-mg/kg.

The detected concentrations of chromium in the samples collected from test borings BS-7 [1.0'-2.8'], BS-27 [4.5'-5.5'] and BS-31 [2.0'-2.9'] ranged from 28.9 to 62.6-mg/kg which exceeds the RPSCO for the Protection of Groundwater for chromium of 19-mg/kg, but was below the RPSCO for the Protection of Public Health—Commercial Use for chromium of 400-mg/kg. The detected values of chromium in these samples were qualified by the laboratory as being estimated values due to the presence of interferences.

The detected concentrations of manganese in the samples collected from test borings BS-7 [1.0'-2.8'], BS-27 [4.5'-5.5'] and BS-31 [2.0'-2.9'] ranged from 28.9 to 62.6-mg/kg which exceeds the RPSCO for the Protection of Groundwater for manganese of 2,000-mg/kg, but was below the RPSCO for the Protection of Public Health—Commercial Use for manganese of 10,000-mg/kg.

No other metals were detected at concentrations exceeding either their associated RPSCO for the Protection of Groundwater or their associated RPSCO for the Protection of Public Health—Commercial Use in soil samples submitted from the proposed marina study area.

Miscellaneous Parameters—Proposed Marina Study Area:

Selected soil and representative fill samples were also analyzed for Total Petroleum Hydrocarbons (TPH), total cyanide and Total Organic Carbon (TOC). The analytical results for these samples are presented in Table 6.

Representative fill samples from test borings BH-4 [1.2'-3.5'], BH-5 [1.0'-4.2'] and BH-6 [1.0'-4.3'] completed near the former railroad turntable formerly located within the proposed marina study area were analyzed for TPH. The detected TPH concentrations in these three samples ranged from 218 to 511-mg/kg. The NYSDEC currently does not list RPSCO for TPH.

Soil and representative fill samples from test borings BS-5 [1.0' to 6.2'], BS-5 [8.0' to 13.2'], BS-7 [1.0'-2.8'], BS-7 [4.0'-7.6'], and BS-9 [2.0'-4.6'] within the proposed marina study area were analyzed for total cyanide. Cyanide was not detected in any of the samples tested at levels above the reported laboratory MDLs.

Soil samples from test borings BS-5 [8.0' to 13.2'], BS-7 [8.0'-9.2'], and BS-9 [14.0'-15.0'] within the proposed marina study area were analyzed for TOC. The detected TOC concentrations in these three samples ranged from below the reported laboratory MDLs to 12,000 mg/kg. The NYSDEC currently does not list RPSCO for TOC.

5.2 Groundwater Sampling—Proposed Marina Study Area

Monitoring wells MW-BH-6, MW-BS-5 and MW-BS-6 were sampled on November 15, 2006. The analytical results from the groundwater samples were compared to the New York State (NYS) Part 703 Groundwater Standards published in the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 dated June 1998. Copies of the laboratory reports are included in Appendix 2. The groundwater sampling results are illustrated on Figure 4. A discussion of the groundwater sampling results is provided below.

Volatile Organic Compounds—Proposed Marina Study Area:

A summary of the VOC analytical results for groundwater samples collected from the proposed marina study area are presented in Table 7.

As shown in Table 7, the VOCs acetone, 2-butanone, carbon disulfide, chloroform and toluene were reported at detectable concentrations, but below their associated NYSDEC Groundwater Standards in groundwater samples collected from the proposed marina study area. In addition, a tentatively identified VOC, an alkybenzene isomer, was detected in the groundwater sample from monitoring well MW-BS6 at an estimated concentration of 4-ug/L. The detected values of acetone in the sample from MW-BS5, 2-butanone in the sample from MW-BS6, and chloroform and toluene in the sample from MW-BH6 were qualified by the laboratory as being estimated values less than the quantitation limit, but greater than zero.

[Note: Acetone is a common laboratory contaminant. As acetone was only detected at low concentrations below 20-ug/L, the detection of acetone does not appear to represent actual groundwater conditions at the proposed marina study area.]

Semi-Volatile Organic Compounds—Proposed Marina Study Area:

A summary of the SVOC analytical results for groundwater samples collected from the proposed marina study area are presented in Table 8.

As shown in Table 8, the SVOC 4-methylphenol was detected in the groundwater sample collected from monitoring well MW-BS6 at an estimated concentration of 2-ug/L. Tentatively identified SVOCs were detected in all three groundwater samples from the proposed marina study area at detectable levels. The total concentrations of SVOC TICs ranged from 347 to 1,088-ug/L. Individual tentatively identified SVOCs are not regulated under NYSDEC Part 703 Groundwater Standards.

Pesticides—Proposed Marina Study Area:

Summary of the pesticide analytical results for groundwater samples collected from the proposed marina study area are presented in Table 9.

As noted in Table 9, the pesticides beta-BHC, delta-BHC, gamma-BHC, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, endosulfan II, endrin, endrin aldehyde, and heptachlor epoxide were detected in groundwater samples collected from the proposed marina study area. None of the detected pesticides were present at concentrations exceeding their associated NYSDEC Part 703 Groundwater Standard. The concentrations of all the detected pesticides were qualified by the laboratory as being estimated values less than the quantitation limit, but greater than zero and/or were detected in the associated laboratory blanks.

PCBs—Proposed Marina Study Area:

No PCBs were detected in groundwater samples submitted from three monitoring wells completed within the proposed marina study area at concentrations above the reported laboratory MDLs.

Metals—Proposed Marina Study Area:

A summary of the metals analytical results for groundwater samples collected from the proposed marina study area are presented in Table 10.

As noted in Table 10, the metals aluminum, arsenic, barium, calcium, iron, magnesium, manganese, potassium, sodium, and zinc were present at detectable levels in the groundwater samples collected from the proposed marina study area monitoring wells.

The detected concentrations of iron in the samples collected from monitoring wells MW-BH6, MW-BS5 and MW-BS6 ranged from 2,630 to 12,100-ug/L which exceeds the NYSDEC Part 703 Groundwater Standard for iron of 300-ug/L.

The detected concentrations of magnesium in the samples collected from monitoring wells MW-BH6, MW-BS5 and MW-BS6 ranged from 25,700 to 80,100-ug/L. The detected concentrations of magnesium in the groundwater samples from wells MW-BH6 and MW-BS5 were at concentrations exceeding the NYSDEC Part 703 Groundwater Standard for magnesium of 35,000-ug/L.

The detected concentrations of manganese in the samples collected from monitoring wells MW-BH6, MW-BS5 and MW-BS6 ranged from 637 to 2,770-ug/L which exceeds the NYSDEC Part 703 Groundwater Standard for manganese of 300-ug/L.

The detected concentrations of sodium in the samples collected from monitoring wells MW-BH6, MW-BS5 and MW-BS6 ranged from 125,000 to 444,000-ug/L which exceeds the NYSDEC Part 703 Groundwater Standard for sodium of 20,000-ug/L.

No other metals were detected in groundwater samples at levels exceeding their associated NYSDEC Groundwater Standards.

5.3 Soil Sampling—Proposed Underground Garage Study Area

The representative fill samples submitted for laboratory analysis and the analytical method utilized are shown in Tables 1A and 1B. In addition, the soil/fill sampling results are also shown on Figures 5 and 5A.

The analytical test results for the soil samples are compared to the RPSCO for Commercial Use and for the Protection of Groundwater referenced in 6 NYCRR Subpart 375-6 Remedial Program Soil Cleanup Objectives (December 6, 2006). A discussion of the soil sampling results for the proposed garage study area is provided below.

Volatile Organic Compounds—Proposed Underground Garage Study Area:

A summary of the VOC analytical results for representative fill samples collected for the RI of the proposed underground garage study area are presented in Table 11.

As shown in Table 11, VOCs were detected above the reported laboratory method detection limits (MDLs) in three (3) of the four (4) representative fill samples analyzed. The detected VOCs included acetone, methylene chloride, and carbon disulfide. The detected values of acetone and carbon disulfide were qualified by the laboratory as being estimated values below the quantitation limit, but greater than zero. None of the detected VOCs were reported at concentrations exceeding either their associated RPSCO for the Protection of Public Health—Commercial Use or their associated RPSCO for the Protection of Groundwater.

In addition, tentatively identified VOCs were detected in the soil sample collected from test boring BS-37 with a total concentration of VOC TICs of 182-ug/kg. The NYSDEC does not currently list a Restricted Use Soil Cleanup Objective for total VOCs.

[Note: Acetone and methylene chloride are common laboratory contaminants. As acetone and methylene chloride were only detected at low concentrations (below 17-ug/L) their detection does not appear to represent actual subsurface conditions at the proposed underground garage study area.]

Semi-Volatile Organic Compounds—Proposed Underground Garage Study Area:

Summary of the SVOC analytical results for representative fill samples collected for the RI of the proposed underground garage study area are presented in Table12.

As shown on Table 12, SVOCs were detected above the reported laboratory MDLs in three (3) of the four (4) representative fill samples analyzed. The detected SVOCs included benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(a)pyrene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, pyrene, and bis-2-ethylhexyl phthalate. The concentrations of the detected SVOCs do not exceed their associated RPSCO for the Protection of Public Health—Commercial Use or their associated RPSCO for the Protection of Groundwater. All of the detected SVOCs were qualified by the laboratory as being estimated values less than the quantitation limit, but greater than zero. Tentatively identified SVOCs were not detected in the soil samples submitted from the proposed underground garage study area at detectable levels.

Pesticides—Proposed Underground Garage Study Area:

Pesticides were not detected in the three (3) representative fill samples submitted from the proposed underground garage study area at concentrations above the reported laboratory MDLs.

PCBs—Proposed Underground Garage Study Area:

PCBs were not detected in the three (3) representative fill samples submitted from the proposed underground garage study area at concentrations above the reported laboratory MDLs.

Metals—Proposed Underground Garage Study Area:

The analytical results for the five (5) representative fill samples submitted for metals analysis from the proposed underground garage study area are presented in Table 13.

As shown on Table 13, metals were detected above the reported laboratory MDLs in all five (5) of the representative fill samples analyzed from the proposed underground garage study area. The detected metals included aluminum, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, vanadium and zinc.

The detected concentrations of arsenic in the samples collected from test borings BS-27 [4.5'-5.5'] and BS-37 [6.0'-7.7'] were 18.7 and 36.3mg/kg, respectively. These concentrations exceed both the RPSCO for the Protection of Groundwater of 16-mg/kg and the RPSCO for the Protection of Public Health—Commercial Use of 16-mg/kg.

The detected concentrations of cadmium in the samples collected from test borings BS-27 [4.5'-5.5'] and BS-37 [6.0'-7.7'] were 2.7 and 32.0-mg/kg, respectively. These concentrations exceed both the RPSCO for the Protection of Groundwater of 7.5-mg/kg and the RPSCO for the Protection of Public Health—Commercial Use of 9.3-mg/kg.

The detected concentrations of chromium in the samples collected from test borings BS-27 [4.5'-5.5'] and BS-37 [6.0'-7.7'] were 37.8 to 62.6-mg/kg, respectively. These concentrations exceed the RPSCO for the Protection of Groundwater of 19-mg/kg, but were below the RPSCO for the Protection of Public Health—Commercial Use of 400-mg/kg.

The detected concentration of manganese in the sample collected from test boring BS-37 [6.0'-7.7'] was 4,460-mg/kg which exceeds the RPSCO for the Protection of Groundwater for manganese of 2,000-mg/kg, but was below the RPSCO for the Protection of Public Health—Commercial Use for manganese of 10,000-mg/kg.

The detected concentration of selenium in the sample collected from test boring BS-37 [6.0'-7.7'] was 32.5-mg/kg which exceeds the RPSCO for the Protection of Groundwater for selenium of 4-mg/kg, but was below the RPSCO for the Protection of Public Health—Commercial Use for selenium of 1,500-mg/kg.

No other metals were detected at concentrations exceeding either their associated RPSCO for the Protection of Groundwater or their associated RPSCO for the Protection of Public Health—Commercial Use in soil samples submitted from the proposed garage study area.

5.4 Groundwater Sampling—Proposed Underground Garage Study Area

Monitoring well MW-BS39 was sampled on November 15, 2006. The analytical results from the groundwater sample were compared to the New York State (NYS) Part 703 Groundwater Standards published in the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 dated June 1998. Copies of the laboratory reports are included in Appendix 2. The groundwater sampling results are shown on Figure 4. A discussion of the groundwater sampling results is provided below.

Volatile Organic Compounds—Proposed Underground garage Study Area:

The VOC analytical results for the groundwater sample collected from the proposed underground garage study area are summarized in Table 14.

As shown in Table 14, the VOCs acetone, carbon disulfide, methylene chloride were present at detectable levels, but below their associated NYSDEC Groundwater Standards in the groundwater sample collected from monitoring well MW-BS39. The detected values of acetone and carbon disulfide were qualified by the laboratory as being estimated values below the quantitation limit, but greater than zero. Methylene chloride was also detected in the associated laboratory blank.

Tentatively identified VOCs were not detected in the groundwater sample at detectable levels.

[Note: Acetone is a common laboratory contaminant. As acetone was only detected at low concentrations below 20-ug/L, the detection of acetone may not represent actual groundwater conditions at the proposed underground garage study area.]

Semi-Volatile Organic Compounds—Proposed Underground garage Study Area:

The SVOC analytical results for the groundwater sample collected from the proposed underground garage area are summarized in Table 15.

As shown in Table 15, target SVOCs were not detected in the groundwater sample collected from monitoring well MW-BS39 at detectable levels. Three tentatively identified SVOCs were detected in the groundwater sample from the proposed underground garage study area with the total concentrations of SVOC TICs 35-ug/L. Individual tentatively identified SVOCs are not regulated under NYSDEC Part 703 Groundwater Standards.

Pesticides—Proposed Underground garage Study Area:

The pesticide analytical results for the groundwater sample collected from the proposed underground garage area are summarized in Table 16.

As noted in Table 16, the pesticides delta-BHC, 4,4'-DDT, and heptachlor were detected in the groundwater sample collected from the proposed underground garage area. The detected concentration of delta-BHC (0.050-ug/L) and heptachlor (0.097-ug/L) were detected at concentrations exceeding their associated NYSDEC Groundwater Standards of 0.04-ug/L and 0.04-ug/L, respectively.

PCBs—Proposed Underground garage Study Area:

PCBs were not detected in groundwater sample submitted from the proposed underground garage area at concentrations above the reported laboratory MDLs.

Metals—Proposed Underground garage Study Area:

The metals analytical results for the groundwater sample from the proposed underground garage area are summarized in Table 17.

As noted in Table 17 above, the metals aluminum, arsenic, barium, calcium, iron, lead, magnesium, manganese, potassium, sodium, and zinc were present at detectable levels in the groundwater samples collected from the proposed underground garage area monitoring wells.

The detected concentrations iron (1,120-mg/L), manganese (370-ug/L) and sodium (430,000-mg/L) in the sample collected from monitoring well MW-BS39 exceeded their associated NYSDEC Groundwater Standard of 300-mg/L, 300-mg/L and 20,000-mg/l, respectively.

No other metals were detected in groundwater samples at levels exceeding their associated NYSDEC Groundwater Standards.

5.5 Hydraulic Conductivity Testing

In-situ rising head hydraulic conductivity tests (i.e. slug tests) were conducted on three (3) monitoring wells at the Site on November 27, 2006. The tests were conducted on monitoring wells MW-BH6 and MW-BS5 within the central and southwest portions of the proposed marina study area, respectively and also on monitoring well MW-BS39 within the proposed underground garage study area. Due to the anticipated rapid recovery rate for the Site wells, the tests were conducted utilizing an In-Situ MiniTroll pressure transducer data logger to record water levels within the well in half second intervals as the wells recovered.

An initial rising head hydraulic conductivity test was conducted on monitoring well MW-BS39. However, due to the rapid recovery rate within the well, this test did not produce sufficient data to accurately calculate the hydraulic conductivity of the screened interval of the well. The test was rerun using two polyethylene bailers tied in series to produce a larger "slug". When conducted in this manner, the test generated sufficient data for the calculation of the hydraulic conductivity in the vicinity of the well. Following the test, the second bailer was discarded. Subsequent tests on monitoring wells MW-BH6 and MW-BS5 were also conducted using new bailers tied in series with the dedicated bailer for the well to generate sufficient data for the analysis of the tests.

For each test, the MiniTroll pressure transducer was preprogrammed to start at a specific time. The transducer was placed in the well to a depth of at least 7-feet below the static water level to allow room for the two bailers tied in series. The bailers were then placed within the well and the well was allowed to return to static conditions at least five minutes prior to the preprogrammed test start time. Five minutes after the preprogrammed start time, the water level within the well was measured with an electronic water level meter. In each case, the measured water level indicated that the well had returned to static conditions and the test was terminated. The data stored within the transducer was then downloaded to a portable computer, and the start time for the next test was programmed into the unit.

The calculated hydraulic conductivities of the tested wells are summarized in table on the following page. Copies of the hydraulic conductivity testing data printouts and data calculation sheets are provided in Appendix 2.

Summary of Rising Head Hydraulic Conductivity Testing Results Proposed Port Marina and Underground Garage Port of Rochester, Rochester, New York Remedial Investigation

| Well ID No. | Static Water | Calculated Hydraulic Conductivity | | |
|---------------------|--------------|-------------------------------------|--------------------------------|--|
| Well ID No. | Level | (cm/sec) | (ft/sec) | |
| MW-BH6 | 4.26 | $1.33 \times 10^{0} \text{ cm/sec}$ | 4.35 x 10 ⁻² ft/sec | |
| MW-BS5 | 6.05 | 1.46 x 10 ⁰ cm/sec | 4.78 x 10 ⁻² ft/sec | |
| MW-BS39 | 8.25-ft. | Insufficient Data | | |
| MW-BS39 (retest) | 8.25-ft. | 1.47 x 10 ⁻¹ cm/sec | 4.82 x 10 ⁻³ ft/sec | |

The calculated geometric mean hydraulic conductivity of the three slug tests conducted at the Site is 6.58×10^{-1} cm/sec (2.16×10^{-2} ft/sec). The calculated geometric mean hydraulic conductivity for the two wells within the proposed marina area is 1.39×10^{0} cm/sec (4.56×10^{-2} ft/sec). According to Groundwater and Wells (F.G. Driscoll, 1989), these hydraulic conductivity values are roughly equivalent to the mid-range of a fine to a coarse-grained gravel deposit or the upper ranges of a fine-to coarse-grained sand deposit, a vesicular basalt and/or a karst limestone.

A review of the test results indicates that the average hydraulic conductivity values for the two wells in the proposed marina study area is approximately one order of magnitude greater than the calculated hydraulic conductivity of the well tested from the proposed underground garage study area. It was observed at the time that the test borings were sampled that portions of the slag containing fill material within the proposed underground garage study area appeared to be at least partially fused (refer to Section 4.2). This may account for the difference between the calculated hydraulic conductivities for the two study areas.

6.0 Qualitative Exposure Assessment

This section provides a qualitative exposure assessment for the Site based on the work completed as part of the RI. This qualitative exposure assessment has been completed in general accordance with DER-10 Appendix 3B (NYSDOH Qualitative Human Health Exposure Assessment).

Exposure Setting

The exposure setting is dependent on the setting of the Site and Site use. Currently, the Site is used as a parking area, roadways and sidewalks and is located in a commercial/recreational area. The Site is directly adjacent to the Genesee River and Lake Ontario is approximately 750 feet to the northwest. The Site is generally asphalt paved with the exception of some landscaped areas and there is a gravel area in the southeast portion of the proposed marina. The Site is open to the public and currently is generally used as a parking area for the local park and businesses.

Exposure Pathways

Exposure pathways are evaluated based on five criteria which are discussed below for the proposed marina and underground garage.

- Contaminant Source: Low level concentrations of VOCs, SVOCs, pesticides, and metals have been identified at the Site. SVOCs, pesticides and metals were detected at concentrations that exceed the RPSCOs (Commercial Use and Protection of Groundwater) and the NYS Part 703 Groundwater Standards. The source of the impacts appears to be due to the regulated solid waste encountered throughout the study area. Specifically, slag, foundry sand, ash and cinders are most likely the source of the detected contaminants.
- Contaminant Release and Transport: Since the contaminants that exceed the RPSCOs and Groundwater Standards are not easily volatilized, it appears that the most probable contaminant release and transport is migration with groundwater due to being in direct contact with groundwater and/or due to surface infiltration transporting contaminants to groundwater. A limited evaluation of the groundwater flow direction was completed as part of the RI. Based on the data obtained, groundwater appears to flow to the southwest (i.e., away from the river).
- **Point of Exposure:** The potential points of exposure appear limited to direct contact and/or ingestion of soil and groundwater. The areas of contamination are located throughout the Site beneath the ground surface within the fill materials and groundwater.

The fill materials are generally located beneath asphalt and concrete walkways; however, a portion of the Site also consists of landscaped areas and gravel. The fill materials are not readily accessible at the surface, and as such, direct contact with fill material does not appear to be a significant point of exposure.

The City of Rochester Code (Chapter 59, Article 3, 59-27) states: "No person shall use for drinking purposes, or in the preparation of food intended for human consumption, any water except the potable water supply authorized for public use by the City of Rochester." And "Other water supplies, wells or springs used for cooling and washing purposes only, where food is prepared or sold for human consumption, shall be tested and approved by the Monroe County Health Director. All auxiliary water supplies used for commercial or industrial use shall have all hydrants and faucets conspicuously posted indicating that such water is not for drinking use, and such water supplies shall not be cross-connected or interconnected with the public water supply." This code has been interpreted to mean that groundwater within the City of Rochester limits cannot be used as a source of drinking water. In addition, there is no apparent groundwater

extraction being conducted at the Site. As such it does not appear that ingestion of or contact with groundwater at the Site is a significant point of exposure.

- Route of Exposure: Based on the types of impacted media, the routes of exposure appear to be ingestion and dermal absorption; however, based on the 'Point of Exposure' discussion above these routes of exposure do not appear to be a significant concern.
- Receptor Population: Based on the type of use at the Site, the receptor population appears to be the general public and potentially construction workers (e.g., utility workers, redevelopment contractors, etc.) that could encounter fill materials and/or groundwater in the event of subsurface utility repair/installation work.

Since fill materials and groundwater are not readily accessible, there does not currently appear to be a completed exposure pathway at the Site. However, there may be completed exposure pathways during any potential future subsurface work (i.e., utility repairs, redevelopment, etc.). As such, appropriate measures to protect site workers and the public would be required prior to any subsurface work, see Section 7.0. Furthermore, it should be noted that this investigation did not include a detailed evaluation of the hydraulic dynamics at the Site (i.e., influence of the river and lake) over time, and as such, the extent of any off-site impacts (points/routes of exposure or receptors) from the Site to the adjacent surface water (and any ecological resources) is unknown.

7.0 Summary of Findings, Conclusions and Recommendations

This Remedial Investigation was conducted at the proposed port marina and underground garage areas in order to evaluate potential subsurface impairment at the Site from historical operations and fill materials which were identified through previous environmental studies conducted at the Site. The RI of the proposed port marina study area consisted of advancing forty-two (42) test borings and installing three (3) groundwater monitoring wells. The RI of the proposed underground garage study area consisted of advancing three (3) test borings and installing one (1) groundwater monitoring well. Two test borings (BS-10 and BS-27), which were advanced for the RI of the proposed marina area were also used in the evaluation of subsurface conditions in the proposed underground garage study area.

Soil and groundwater samples were also collected and tested as part of the work within each study area. The observations, field data, and analytical results from soil and groundwater samples are summarized for each area below followed by the conclusions. Based on the similar findings and conclusions for the two areas, recommendations are provided together for both areas. The conclusions and recommendations for this RI are based on the Commercial Use and Protection of Groundwater Remedial Program Soil Cleanup Objectives referenced in 6 NYCRR Subpart 375-6. It should be noted that NYSDEC would require a deed restriction be placed on the property in order to apply the Commercial Use cleanup objective at the Site.

Summary of Findings: Proposed Marina Study Area

• Of the forty-two (42) test borings advanced in the proposed port marina area, elevated PID readings (greater than 5.0 ppm) were encountered in soil collected from only four test borings BS-21, BS-22, BS-27 and BS-28;

- Fill material containing regulated solid waste under 6 NYCRR Part 364 including industrial slag, ash, cinders, and foundry waste was encountered in all borings completed within the proposed marina study area except BH-2 and BS-3. The thickness of the fill material encountered within the proposed marina area ranged from approximately 0.4 to 9-feet with an average thickness of 4.5-feet and was generally thicker in the southern portion of the study area. The thickness of fill material containing regulated solid waste within the proposed marina study area ranged from approximately 1 to 7-feet with an average thickness of 3-feet and was generally thicker in the southern portion of the study area.
- A total of twenty-eight soil samples were submitted for laboratory analysis from test borings completed within the proposed port marina study area.
 - o No PCBs were detected in samples of either the fill material or native soil collected from the proposed marina study area.
 - O Analytical results for soil samples collected from borings within the proposed marina study area indicated that low ppb levels of VOCs and pesticides were detected in some samples collected from fill material and underlying native soil; however, the concentrations are below their associated RPSCOs for Commercial Use and the Protection of Groundwater. [Note: Although numerous samples detected acetone and methylene chloride, it should be noted that these compounds are common lab contaminants and methylene chloride was flagged by the laboratory as being detected in the associated blanks ('B' flag) in each sample with a reported detection.]
 - Eleven of the eighteen soil/fill samples tested for SVOCs detected concentrations of SVOCs above the laboratory detection limits. However, only two of these samples detected SVOC concentrations that exceed their respective RPSCOs for Commercial Use and/or Protection of Groundwater. This equates to about 11% of the samples detected SVOCs with concentrations that exceed the RPSCOs. Specifically, the following samples exceeded the RPSCOs: sample BH-5 (1.0'-6.2') detected one SVOC at a concentration that exceeds the RPSCO for Commercial Use and three SVOCs exceed their RPSCOs for Protection of Groundwater; and, sample BS-30 (0.5'-1.1') detected five SVOCs at concentrations that exceed their respective RPSCOs for Commercial Use and five SVOCs also exceed their RPSCOs for Protection of Groundwater. The three native soil samples collected from locations below fill did not detect concentrations of SVOCs above their associated RPSCOs for Commercial Use or Protection of Groundwater. In addition, each of these three native soil samples were collected from borings where samples of the above fill material were also analyzed and each of these soil samples detected lower concentrations of SVOCs than the fill material samples.
 - o Each of the twenty-three samples tested for metals detected one or more metals at concentrations above the reported laboratory detection limits; however, only four of the samples detected concentrations of metals above the RPSCOs for Commercial Use and/or Protection of Groundwater. This equates to about 17% of the samples detected concentrations of metals that exceed the RPSCOs. Specifically, the following samples/metals exceeded the RPSCOs: barium in sample BH-5 (1.0'-4.2') exceeded the RPSCOs for Commercial Use but was below the Protection of Groundwater criteria;

chromium and manganese in sample BS-7 (1.0'-2.8') exceeded the RPSCOs for Protection of Groundwater but were below the Commercial Use criteria; arsenic and chromium in samples BS-27 (4.5'-5.5') and BS-31 (2.0'-2.9') exceeded the RPSCOs for Protection of Groundwater, in addition, arsenic in these samples exceeded Commercial Use criteria. It should be noted that, in general, the detected concentrations of metals were higher in the samples collected from the fill material than in the underlying native soil.

- A total of three groundwater samples were submitted for laboratory analysis from monitoring wells installed within the proposed port marina study area.
 - O VOCs were detected in each of the three groundwater samples analyzed; however, the concentrations detected are below the NYSDEC Part 703 Groundwater Standards. Specifically, the VOCs acetone, 2-butanone, carbon disulfide, chloroform, toluene and one TIC were detected at low levels. The concentrations detected were less than 5 ppb (the groundwater standard for many VOCs) with the exception of acetone in MW-BS6, which was 19 ppb; however, this concentration is below the NYSDEC Part 703 Groundwater Standard for acetone of 50 ppb. It should be noted that acetone is a common laboratory contaminant. In addition, most of the detections were also flagged by the laboratory as estimated values that were below the sample quantitation limit.
 - One target list SVOC was detected in one of the three groundwater samples analyzed; however, the detected concentration is below it's associated NYSDEC Part 703 Groundwater Standard. Numerous non-target SVOCs (i.e., TICs) were detected in each of the groundwater samples analyzed; however, the concentrations detected were generally low level and each of the detected SVOC TICs were flagged by the laboratory as estimated and most of these detections were also detected in the associated blank. [Note: Since the non-target SVOCs are tentatively identified and most were listed as unknown, a comparison to NYS Part 703 Groundwater Standards could not be made.] In addition, the SVOCs detected in the soil/fill samples were not detected in the groundwater samples.
 - Pesticides were detected in each of the three groundwater samples analyzed; however, the
 detected concentrations are below the NYS Part 703 Groundwater Standards. In addition,
 each of the detected concentrations were flagged by the laboratory as estimated values.
 - o PCBs were not detected in the groundwater samples collected from the proposed marina study area.
 - O Ten metals were detected at concentrations above the reported laboratory detection limits in the three groundwater samples. Three of the ten detected metals (iron, manganese and sodium) in each of the three groundwater samples (i.e., 100%) were detected at concentrations that exceed the NYS Part 703 Groundwater Standards. The metals in groundwater that exceed the NYS Part 703 Groundwater Standards are not the same metals in the soil/fill samples that exceeded the Protection of Groundwater Soil Cleanup Objectives, with the exception of manganese.

- VOCs, SVOCs, pesticides, PCBs, and metals were not detected in soil samples collected from the proposed marina study area at concentrations that would appear to constitute a characteristic Hazardous Waste (i.e., based on a 20 times reduction for leachate)..
- Based on the results of rising head hydraulic conductivity tests conducted on wells within the proposed marina study area indicated that the calculated geometric mean hydraulic conductivity for the two wells tested is 1.39 x 10⁰ cm/sec (4.56 x 10⁻² ft/sec). According to Groundwater and Wells (F.G. Driscoll, 1989), these hydraulic conductivity values are roughly equivalent to the mid-range of a fine to a coarse-grained gravel deposit or the upper ranges of a fine-to coarse-grained sand deposit, a vesicular basalt and/or a karst limestone.
- A complete exposure pathway was not identified for the marina area based on the current site use.

Conclusions: Proposed Marina Study Area

- Areas of discrete impacts were not encountered during the RI work completed in the proposed port marina (i.e., including the former railroad operations area). However, localized areas of impact may exist within the subsurface at the Site (i.e., between RI testing locations).
- The RI confirmed that fill materials and regulated solid waste are located throughout the proposed marina area. The nature and extent of fill and regulated solid waste within the proposed marina study area has generally been defined. Based on the estimated excavation area (300-ft. by 500-ft.) and depth (13-ft.) for the proposed marina, there is approximately 14,470 cy of regulated solid waste within this area.
- Although select contaminants were encountered at concentrations exceeding soil and/or groundwater standards, if the regulated solid waste is undisturbed these impacts do not appear to constitute a significant threat to the environment or human health. However, if disturbed the regulated solid waste would require to be handled properly (see below recommendations).
- Based on the relatively high hydraulic conductivity for the soils and fill material beneath the
 Site, any excavation work conducted below the water table at the Site should take into account
 the potential that large volumes of groundwater may accumulate and will require proper
 handling and/or treatment.
- Based on the current site use, a completed exposure pathway was not identified for the proposed marina; however, any future ground intrusive work could result in a completed exposure pathway.
- It should be noted that this investigation did not include a detailed evaluation of the hydraulic dynamics at the Site (i.e., influence of or communication with the river and lake) over time, and as such, the potential for the Site to impact the adjacent surface water (and any ecological resources) is unknown.

Summary of Findings: Proposed Underground Garage Study Area

• Elevated PID readings (greater than 5.0 ppm) were encountered in soil collected from test borings BS-38 and BS-39;

- Fill material containing regulated solid waste under 6 NYCRR Part 364 included industrial slag, ash, cinders, and foundry waste was encountered in all borings completed within the proposed underground garage study area. The thickness of fill material within the proposed underground garage study area ranged from approximately 4.3-feet to 18.6-feet and was generally thickest in the southern portion of the study area. The thickness of regulated solid waste ranged from approximately 3.7-feet to 18.1-feet with an average thickness of 11.9-feet. The regulated solid waste thickness was shallowest in the eastern portion of the proposed underground garage and increased in thickness to the west.
- The soil samples submitted for laboratory analysis from test borings completed within the proposed port underground garage study area are discussed below.
 - No PCBs were detected in soil samples collected from the proposed underground garage study area.
 - O Three of the four soil/fill samples collected from the proposed underground garage area detected low ppb level VOCs; however, the concentrations detected are below the Commercial Use and Protection of Groundwater Soil Cleanup Objectives. In addition, the reported detections were each flagged by the laboratory as estimated, with the exception of methylene chloride. [Note: Acetone and methylene chloride are common lab contaminants.]
 - Three of the four soil/fill samples tested for SVOCs detected concentrations of SVOCs above the laboratory detection limits. However, the detected concentrations were below their respective RPSCOs for Commercial Use and Protection of Groundwater. In addition, each of the reported detections were flagged by the laboratory as estimated concentrations with the reported value lower than the quantitation limit.
 - Each of the five soil/fill samples tested for metals detected four or more metals at concentrations above the reported laboratory detection limits; however, only two of the samples detected concentrations of metals above the RPSCOs for Commercial Use and/or Protection of Groundwater. This equates to 40% of the samples detected concentrations of metals that exceed the RPSCOs. Specifically, the following samples/constituents exceeded the RPSCOs: arsenic in samples BS-27 (4.5'-5.5') and BS-37 (6.0'-7.7') exceeded the RPSCOs for Commercial Use and Protection of Groundwater; cadmium in sample BS-37 (6.0'-7.7') exceeded the RPSCOs for Commercial Use and Protection of Groundwater; chromium in samples BS-27 (4.5'-5.5') and BS-37 (6.0'-7.7') exceeded the RPSCOs for Protection of Groundwater but was below the RPSCOs for Commercial Use; and, manganese and selenium in sample BS-37 (6.0'-7.7') exceeded the RPSCOs for Protection of Groundwater but was below the RPSCOs for Commercial Use. It should be noted that each of the reported concentrations of metals in the sample from BS-37 (6.0'-7.7') were flagged as estimated value due to the presence of interferences and/or that the spike sample recovery was not within quality control limits.

- One groundwater sample (MW-BS39) from within the proposed underground garage study area was submitted for laboratory analysis.
 - o Three VOCs were detected in the groundwater sample; however, the concentrations were low level ppb and are below NYSDEC Part 703 Groundwater Standards. In addition, each of the detected concentrations were flagged by the laboratory as estimated and two of the reported VOCs (acetone and methylene chloride) are common laboratory contaminants.
 - o Target list SVOCs were not detected above the reported laboratory detection limits in the groundwater sample. Three tentatively identified SVOCs were reported by the laboratory; however, the concentrations reported are low level ppb and each detection was flagged by the laboratory as an estimated value.
 - Three pesticides (delta-BHC, 4,4'-DDT, and heptachlor) were detected in the groundwater sample from MW-39. The reported concentrations of delta-BHC and heptachlor exceed their associated NYS Part 703 Groundwater Standards. Although pesticides are not typically encountered in the dissolved phase, the groundwater samples were collected using low flow sampling procedures and turbidity was below 50 NTUs and +/- 10% for three consecutive readings.
 - o No PCBs were detected in the groundwater sample collected from the proposed underground garage study area.
 - o Eleven metals were detected above the reported laboratory detection limits. Three of the eleven detected metals (iron, manganese and sodium) were detected at concentrations that exceed their respective NYSDEC Groundwater Standards.
- VOCs, SVOCs, PCBs, and metals were not detected in soil samples collected from the proposed underground garage study area at concentrations that would constitute a characteristic Hazardous Waste (i.e., based on a 20 times reduction for leachate).
- Based on the results of a rising head hydraulic conductivity test conducted on monitoring well MW-BS39 indicated that the calculated hydraulic conductivity for the well is 1.47 x 10⁻¹ cm/sec (4.56 x 10⁻² ft/sec). According to Groundwater and Wells (F.G. Driscoll, 1989), these hydraulic conductivity values are roughly equivalent to the mid-range of a fine to a coarse-grained gravel deposit or the upper ranges of a fine-to coarse-grained sand deposit, a vesicular basalt and/or a karst limestone.
- A complete exposure pathway was not identified for the underground garage area based on the current site use.

Conclusions: Proposed Underground Garage Area

- Areas of discrete impacts were not encountered during the RI work completed in the proposed underground garage area. However, localized areas of impact may exist within the subsurface at the Site (i.e., between RI testing locations).
- The RI confirmed that fill materials and regulated solid waste are located throughout the proposed underground garage area. The nature and extent of fill and regulated solid waste within the proposed underground garage area has been generally defined. Based on the estimated excavation area (225-ft. by 225-ft.) and depth (18-ft.) for the proposed underground garage, there is approximately 19,750 cy of regulated solid waste within this area.
- Although select contaminants were encountered at concentrations exceeding soil and/or
 groundwater standards, if the regulated solid waste is undisturbed these impacts do not appear to
 constitute a significant threat to the environment or human health. However, if disturbed the
 regulated solid waste would require to be handled in accordance with applicable regulations (see
 below recommendations).
- Based on the relatively high hydraulic conductivity for the soils and fill material beneath the Site, any excavation work conducted below the water table at the Site should take into account the potential that large volumes of groundwater may accumulate and will require proper handling and/or treatment.
- Based on the current site use, a completed exposure pathway was not identified for the proposed underground garage; however, any future ground intrusive work could result in a completed exposure pathway.
- It should be noted that this investigation did not include a detailed evaluation of the hydraulic dynamics at the Site (i.e., influence of or communication with the river and lake) over time, and as such, the potential for the Site to impact the adjacent surface water (and any ecological resources) is unknown.

Recommendations: Proposed Marina and Underground Garage Study Areas

Based on the findings of the RI summarized above, the following recommendations have been made for the proposed marina and underground garage areas.

- To minimize potential future completed exposure pathways, the existing Environmental Management Plan (EMP) for this area developed by LaBella dated July 2005 should be updated based on the current data. The EMP includes the proper handling procedures and disposal options for soil/fill materials encountered during any ground intrusive work at the Site. The updated EMP should include a more detailed section on the management of groundwater (treatment, discharge, etc.). In addition, the updated EMP should include options for the handling and/or disposal of the fill material. Three potential options are identified below:
 - 1. Reuse at the Site in berms or as backfill that would require to be covered with clean fill and/or capped by an impervious surface to prevent exposure to the general public and the environment;

- 2. Proper off-site disposal of the fill material at a NYSDEC permitted Part 360 disposal facility; and/or
- 3. Reuse on-site and/or off-site under a beneficial use determination (BUD).

For the options discussed above, implementation of the updated EMP would be required outlining the handling and environmental monitoring procedures required for the safe disturbance of the fill material.

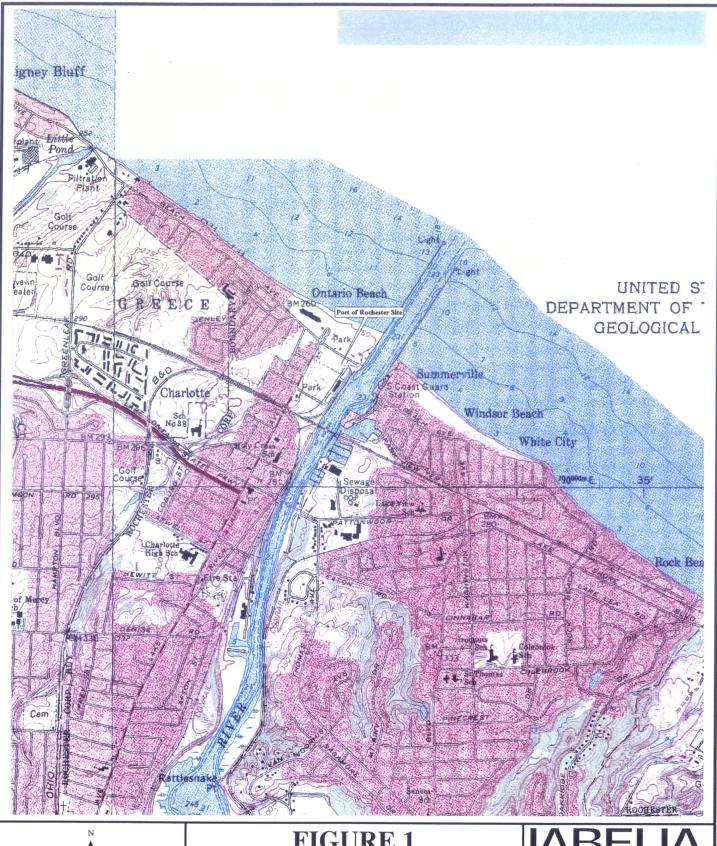
- Subsequent to a final redevelopment option being determined, a project specific corrective action plan (CAP) is recommended in order to implement remedial work prior to or in conjunction with the planned redevelopment.
- Prior to any large-scale excavations a pump test should be conducted in order to further evaluate
 the volume of groundwater that potentially would be generated during a mass removal at the Site.
 Aggressive dewatering is recommended in order to minimize potential impacts of exposed fill
 materials to groundwater and potentially the adjacent surface waters. In addition, any future
 excavations/development at the Site should account for potential fill materials outside the study
 areas.
- A detailed investigation of the potential for the contaminants at the Site to impact the adjacent surface water. [Note: The surface water and ecological resource cleanup standards are more stringent (i.e., lower concentrations) than the applicable site cleanup objectives/standards.] It also may be warranted to evaluate potential impacts to ecological resources as part of any additional investigation.

A copy of all information collected during this assessment, including photographs, maps, notes, analytical data and other material will be kept on file at the offices of LaBella Associates, P.C. This information is available at your request.

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Figures and Photographs



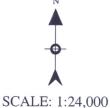
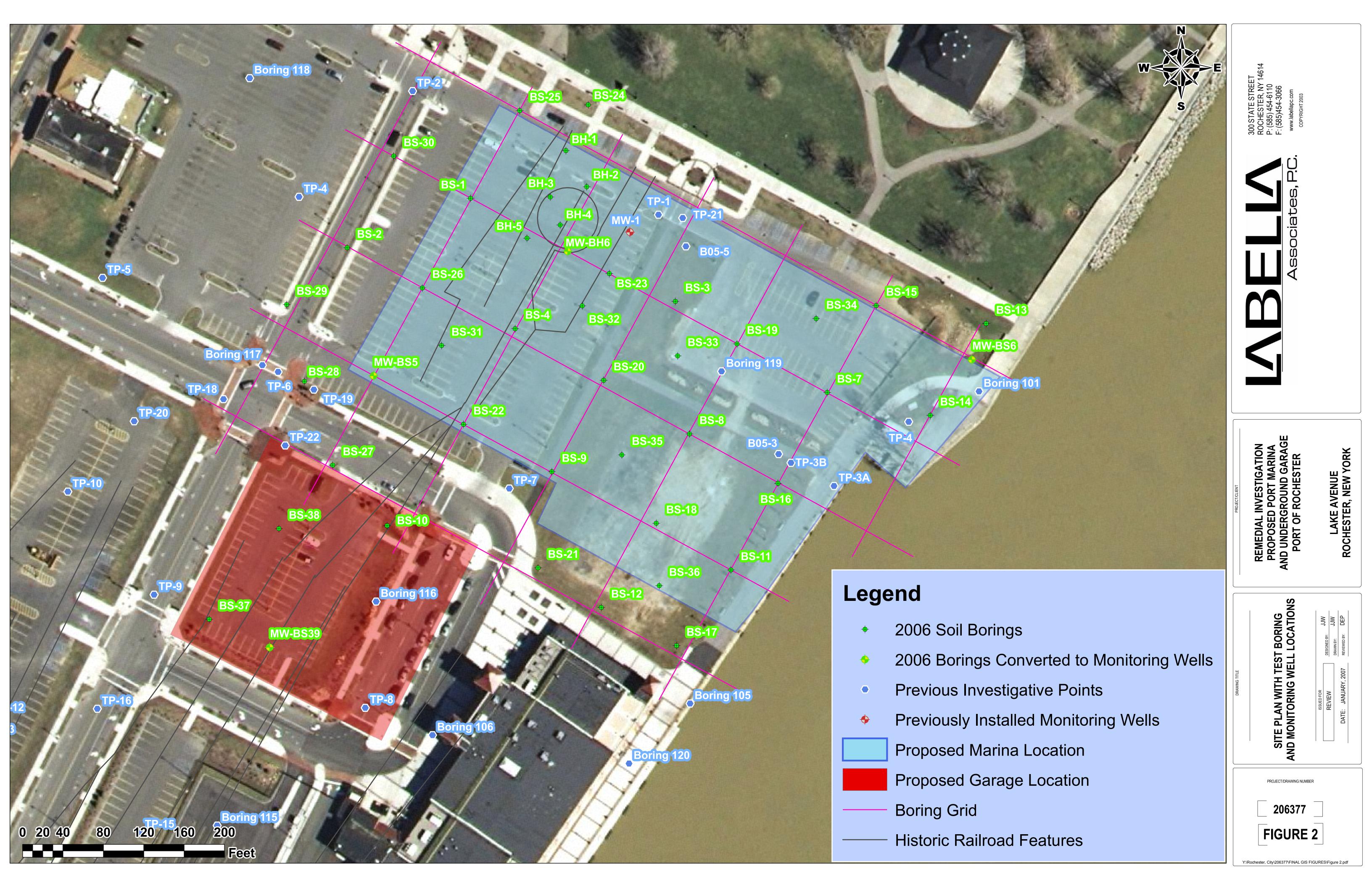


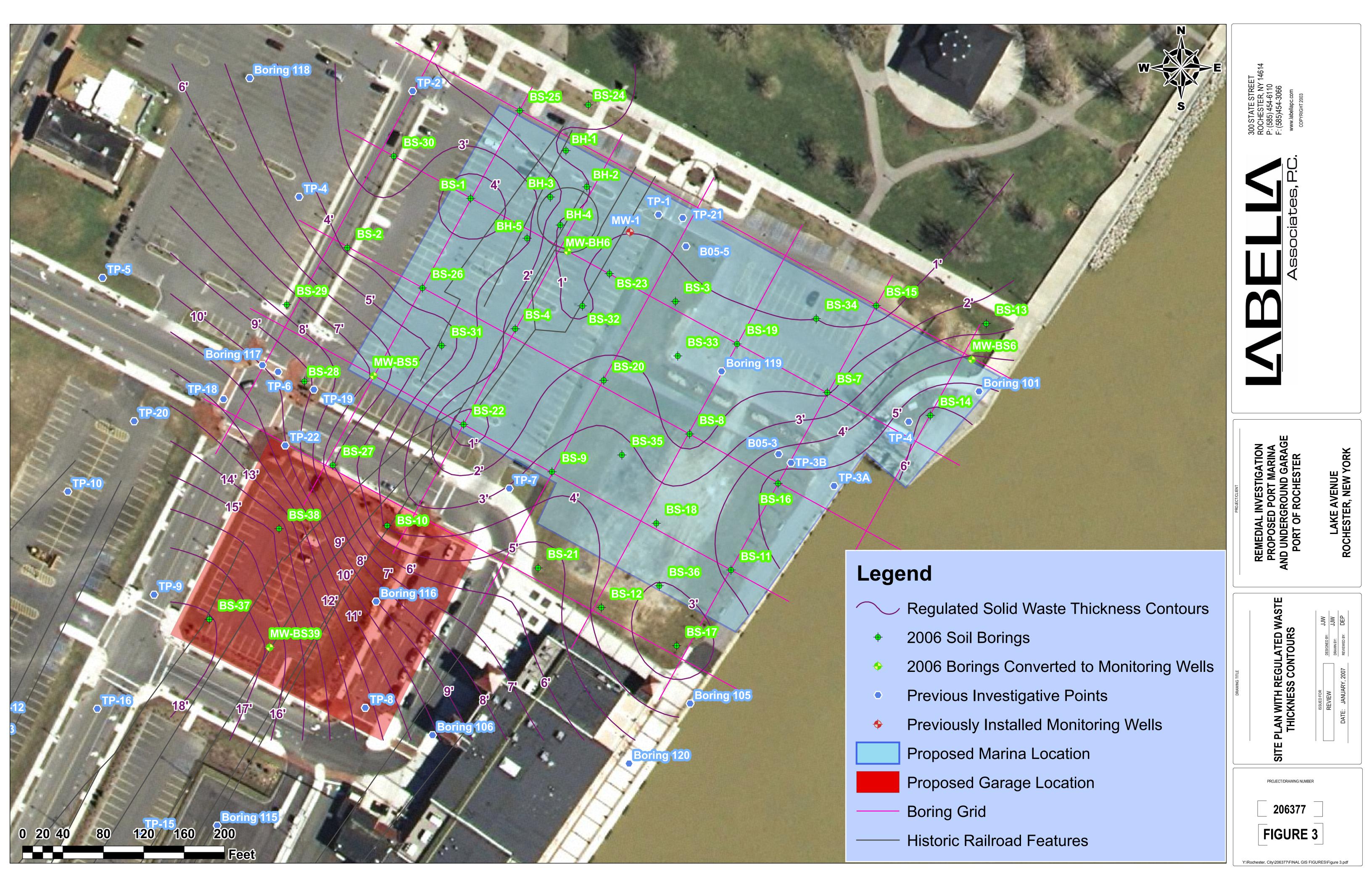
FIGURE 1 SITE LOCATION MAP

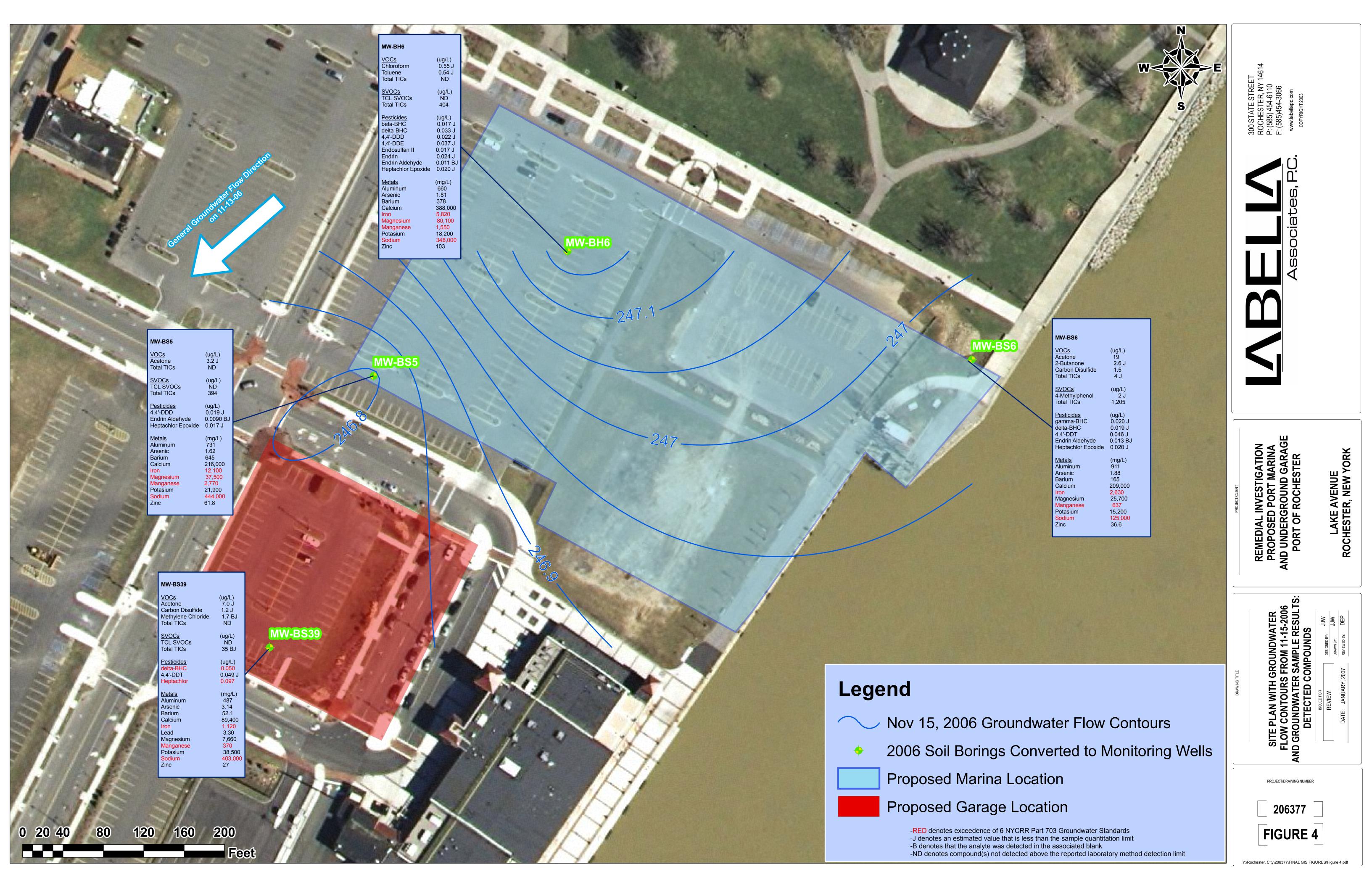
Remedial Investigation Proposed Marina & Underground Garage Port of Rochester Rochester, New York

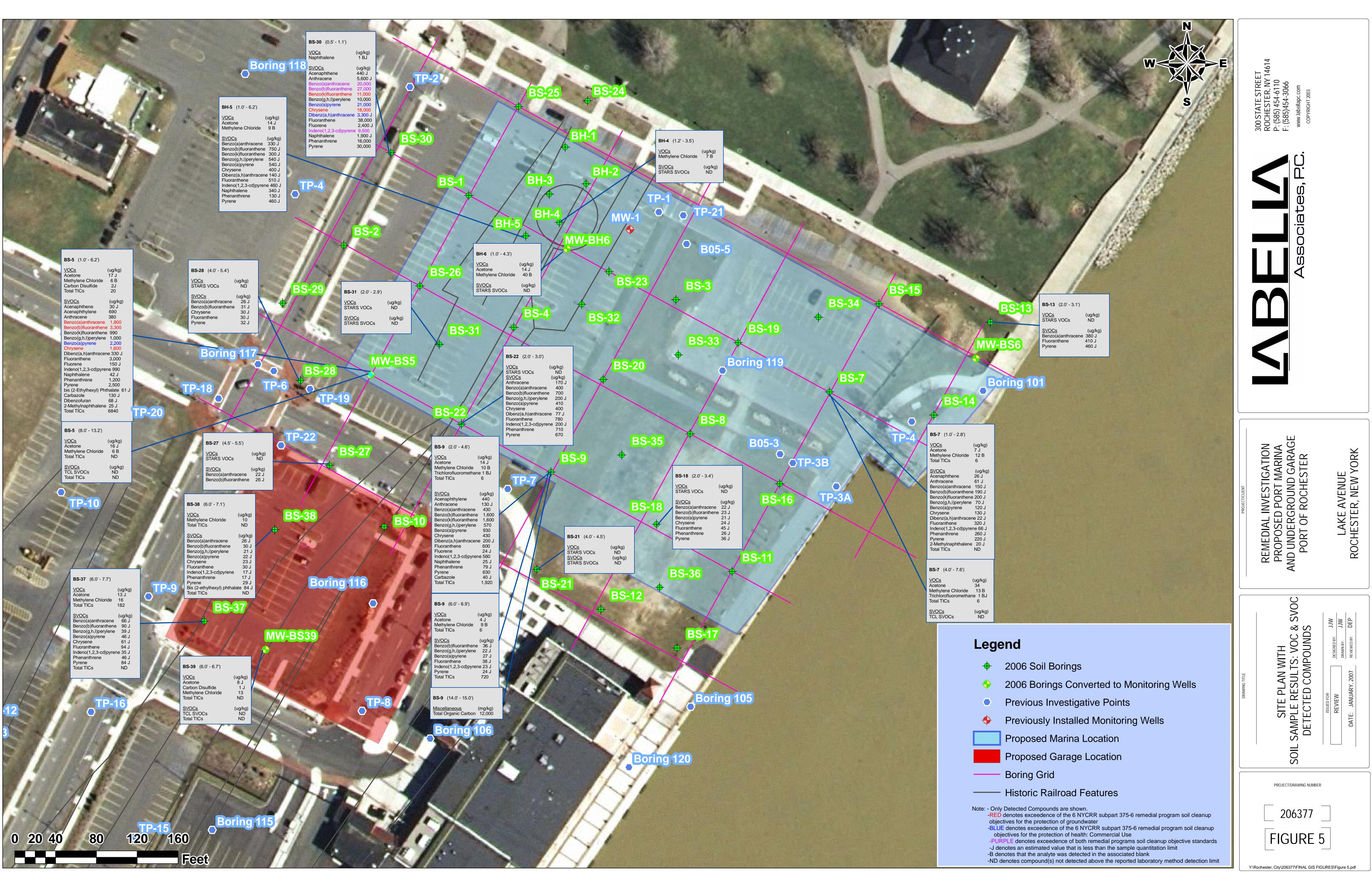
MBELL

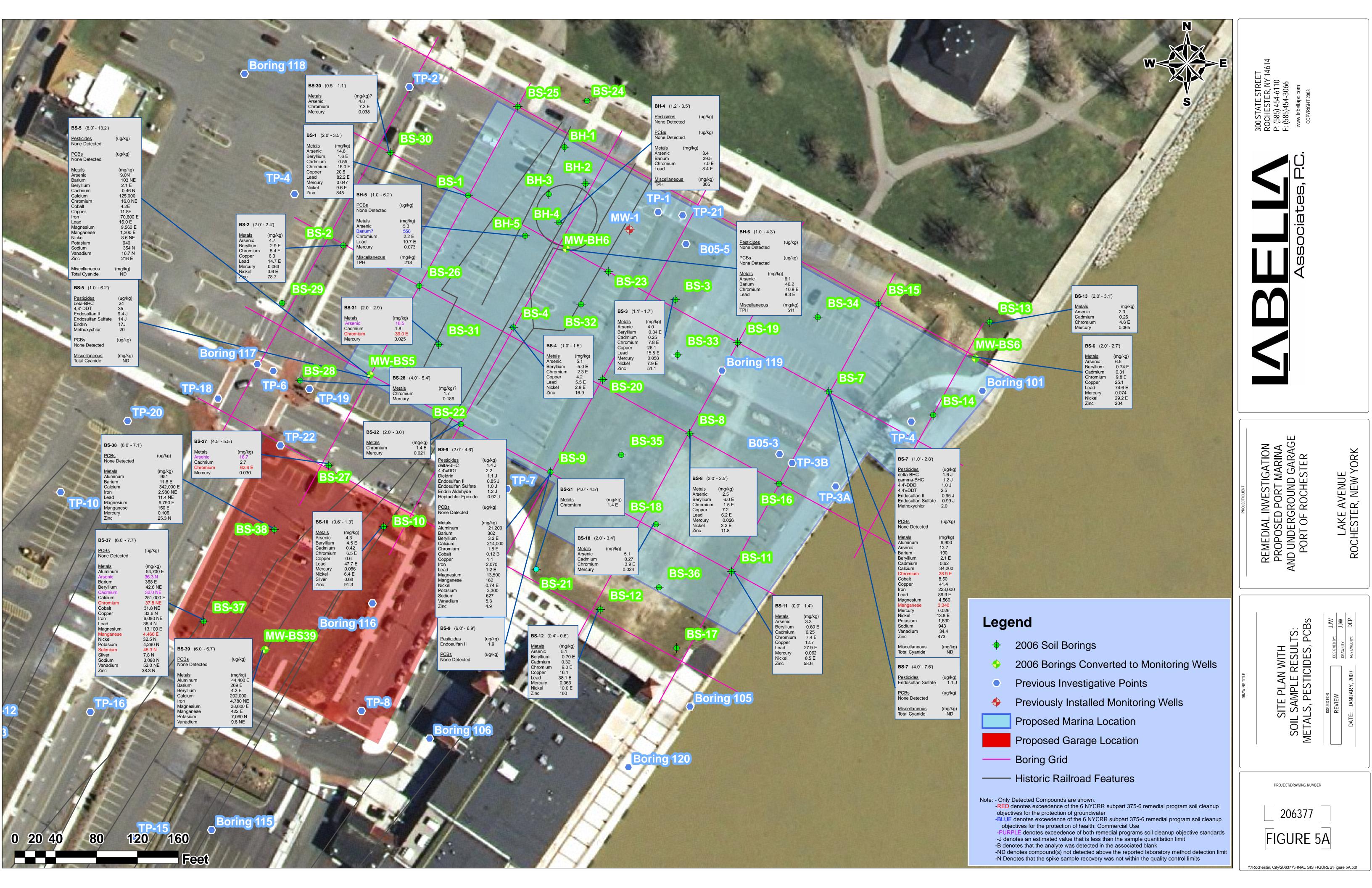
PROJECT NO. 206377













View of blue-green slag collected from boring BS-21 [4.0' to 4.5'].



View of gray and blue-green slag collected from soil boring BS-20 [0.0' to 1.5'].



View of foundry sand and gray and black metallic slag encountered in fill material collected from soil boring BS-27 [4.0' to 5.5'].



View of ash, cinders and black metallic slag encountered in fill material collected from boring BS-25 [2.0' to 3.2'].

Remedial Investigation





View of the purge water from well MW-BH6 at the time of sampling.

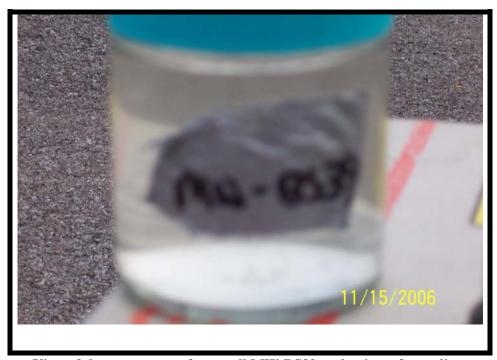


View of the purge water from well MW-BS5 at the time of sampling.





View of the purge water from well MW-BS6 at the time of sampling.



View of the purge water from well MW-BS39 at the time of sampling.





View of partially fused ash with trace gray and black metallic slag encountered in fill material collected from boring BS-37 [8.0' to 8.4'].



View of foundry sand with trace gray, white, black metallic and blue-green slag encountered in fill material collected from boring BS-39 [4.0' to 5.7'].

Remedial Investigation

Proposed Marina and Underground Garage Study Areas Port of Rochester 4810 Lake Avenue & 1000 North River Street City of Rochester, New York 14612



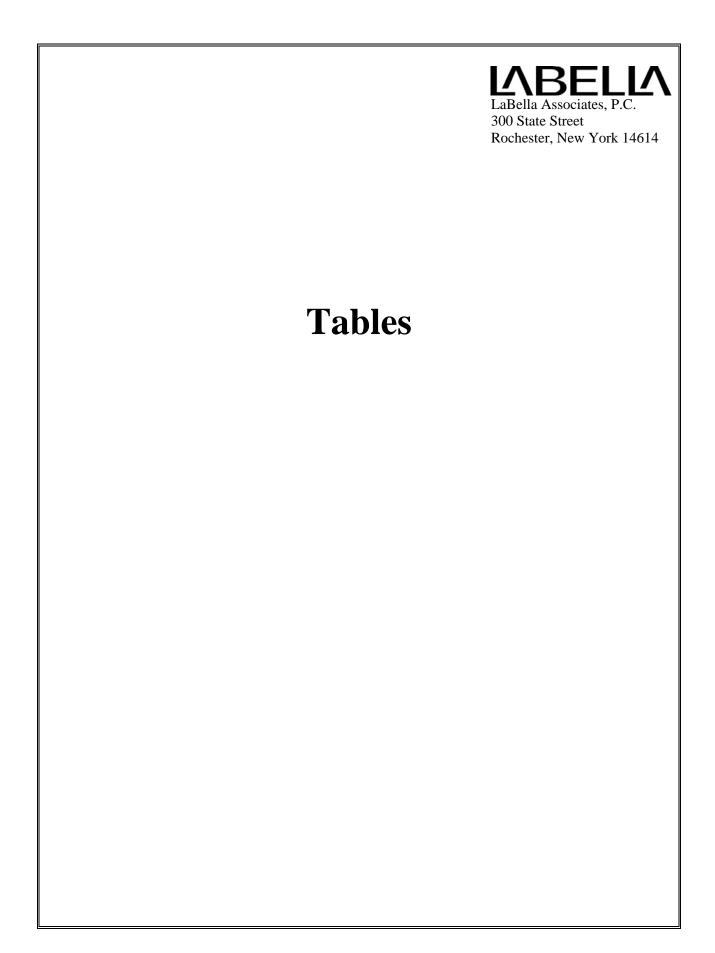


Table 1A **Soil Sample PID Readings**

Project Round No. 1

Proposed Marina Development Port of Rochester, Rochester, New York

Remedial Investigation

(All PID Readings Listed in Parts Per Million (ppm))

| Test Boring | | | | | Depth of San | nple Analyzed | | | | | Interval | |
|---|-------|-------|---------|---------|--------------|-----------------|-------------------|---------------|---------------|---------------|---------------------------|--|
| I.D. | 0'-2' | 2'-4' | 4' - 6' | 6' - 8' | 8' – 10' | 10' – 12' | 12' – 14' | 14' – 16' | 16' – 18' | 18' – 20' | Submitted for Analysis | Analytical Method |
| | | | | | Former Rou | ndhouse Area Bo | orings within the | Proposed Mari | na Study Area | | | |
| BH-1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | Not Applicable | Not Applicable |
| BH-2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | | | Not Applicable | Not Applicable |
| BH-3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | Not Applicable | Not Applicable |
| BH-4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | I.R. | 0.0 | 0.0 | 1.2' to 3.5' | VOCs-TCL+STARS, SVOCs-STARS, RCRA Metals, PCBs & TPH |
| BH-5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | 1.0' to 4.2' | VOCs-TCL+STARS, SVOCs-STARS, RCRA Metals, PCBs & TPH |
| ВН-6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0' to 4.3' | VOCs-TCL+STARS, SVOCs-STARS, RCRA Metals, PCBs & TPH |
| General Borings to Confirm the Presence of Regulated Solid Waste within the Proposed Ma | | | | | | | | | Proposed Mari | na Study Area | | |
| BS-1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | 2.0' - 3.5' | PPL Metals |
| BS-2 | 0.0 | 0.0 | 0.0 | I.R. | 0.0 | 0.0 | 0.0 | 0.0 | | | 2.0' - 2.4' | PPL Metals |
| BS-3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | 1.1' – 1.7' | PPL Metals |
| BS-4 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0' - 1.5' | PPL Metals |
| BS-5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0' - 6.2' | VOCs -TCL+TICs, SVOC-TCL+TICs, TAL Metals, PCBs, Pesticides & Cyanide |
| B3-3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0' – 13.2' | VOCs-TCL, SVOCs-TCL, PCBs, Pesticides, Cyanide & TOC |
| BS-6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0' - 2.7' | PPL Metals |
| | | | | | | | | | | | 1.0' – 2.8' | VOCs-TCL+TICs, SVOCs-TCL+TICs, TAL Metals, PCBs, Pesticides & Cyanide |
| BS-7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | 4.0' – 7.6' | VOCs-TCL, SVOCs-TCL, PCBs, Pesticides & Cyanide |
| | | | | | | | | | | | 8.0' - 9.2' | TOC |
| BS-8 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | 2.0' - 2.5' | PPL Metals |
| | | | | | | | | | | | 2.0' – 4.6' | VOCs-TCL+TICs, SVOCs-TCL+TICs, TAL Metals, PCBs, Pesticides & Cyanide |
| BS-9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.0' - 6.9' | VOCs-TCL, SVOCs-TCL, PCBs, Pesticides & Cyanide |
| | | | | | | | | | | | 14.0' – 15.0' | TOC |
| BS-10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6' - 1.3' | PPL Metals |
| BS-11 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | 0.0' - 1.4' | PPL Metals |
| BS-12 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | 0.4' - 0.6' | PPL Metals |

Note: All PID readings were collected utilizing a MiniRae 2000 photoionization detector and are representative of ppm VOC

VOCs-TCL denotes sample analyzed for VOCs by USEPA Method 8260B TCL

VOCs-TCL+TICs denotes sample analyzed for VOCs by USEPA Method 8260B TCL plus 20 TICs

VOCs-TCL+STARS denotes sample analyzed for VOCs by USEPA Method 8260B TCL plus NYSDEC STARS Constituents
SVOCs-TCL+TICs denotes sample analyzed for Semi-VOCs by USEPA Method 8270C TCL plus 20 TICS

SVOCs-STARS denotes sample analyzed for Semi-VOCs by USEPA Method 8270C NYSDEC STARS Constituents only RCRA Metals denotes sample analyzed for RCRA Metals by USEPA Methods 6010 and 7471

PPL Metals denotes sample analyzed for Priority Pollutant Metals by USEPA Methods 6010 and 7471

TAL Metals denotes sample analyzed for Target Analyte List Metals by USEPA Methods 6010 and 7471

PCBs denotes sample analyzed for PCBs by USEPA Method 8082A **Pesticides** denotes sample analyzed for Pesticides by USEPA Method 8081B

Cyanide denotes sample analyzed for Total Cyanide by USEPA Method 9012A TOC denotes sample analyzed for Total Organic Carbon by the KAHN Method

TPH denotes sample analyzed for Total Petroleum Hydrocarbons bu USEPA Method 310.13

I.R. denotes insufficient recovery for this interval

--- denotes that no soil sample was collected as the interval was below the bottom of the soil boring

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Table 1B **Soil Sample PID Readings**

Project Rounds No. 2 and 3

Proposed Marina Development Port of Rochester, Rochester, New York

Remedial Investigation

(All PID Readings Listed in Parts Per Million (ppm))

| | | | | | Dep | pth of Sample Ar | alyzed | | | | | Interval | |
|------------------|-------|-------|---------|---------|------------------|------------------|-------------------|------------------|------------------|----------------|-----------|---------------------------|--|
| Test Boring I.D. | 0'-2' | 2'-4' | 4' - 6' | 6' - 8' | 8' – 10' | 10' – 12' | 12' – 14' | 14' – 16' | 16' – 18' | 18' – 20' | 20' – 22' | Submitted for Analysis | Analytical Method |
| | | | | Gen | eral Borings to | Confirm the Pre | sence of Regulat | ed Solid Waste | within the Propo | sed Marina Stu | dy Area | | |
| BS-13 | 0.0 | 0.5 | 0.0 | I.R. | I.R. | 0.0 | 0.1 | 0.1 | | | | 2.0' - 3.1' | VOCs-STARS, SVOCs-STARS & Metals |
| BS-14 | 0.4 | 0.1 | 0.1 | 4.3 | 3.7 | 0.2 | 0.2 | 0.0 | | | | Not Applicable | Not Applicable |
| BS-15 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | Not Applicable | Not Applicable |
| BS-16 | 0.0 | I.R. | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | Not Applicable | Not Applicable |
| BS-17 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | | | | Not Applicable | Not Applicable |
| BS-18 | 0.4 | 1.7 | 0.4 | 0.0 | 3.2 | 2.7 | 0.0 | 0.0 | | | | 2.0' - 3.4' | VOCs-STARS, SVOCs-STARS & Metals |
| BS-19 | 0.2 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | Not Applicable | Not Applicable |
| BS-20 | 1.8 | 0.1 | 0.0 | 0.4 | 0.1 | 1.3 | 0.1 | 0.1 | | | | Not Applicable | Not Applicable |
| BS-21 | 5.2 | 0.3 | 0.2 | 0.4 | 0.0 | 0.2 | 0.0 | 0.0 | | | | 4.0' - 4.5' | VOCs-STARS, SVOCs-STARS & Metals |
| BS-22 | 0.6 | 8.2 | I.R. | 0.2 | 0.3 | 4.7 | 0.4 | 0.0 | | | | 2.0' - 3.0' | VOCs-STARS, SVOCs-STARS & Metals |
| BS-23 | 3.1 | 2.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | | | | Not Applicable | Not Applicable |
| BS-24 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | Not Applicable | Not Applicable |
| BS-25 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | Not Applicable | Not Applicable |
| BS-26 | 0.6 | 0.2 | 0.1 | 0.0 | 0.0 | I.R. | 0.0 | 0.0 | | | | Not Applicable | Not Applicable |
| BS-27 | 0.0 | 5.7 | 11.5 | 15.9 | 3.1 | 1.6 | 2.2 | 0.9 | | | | 4.5' - 5.5' | VOCs-STARS, SVOCs-STARS & Metals |
| BS-28 | 0.1 | 0.9 | 2.1 | 0.8 | 0.5 | 32.2 | I.R. | 0.3 | | | | 4.0' - 5.4' | VOCs-STARS, SVOCs-STARS & Metals |
| BS-29 | 0.3 | 1.2 | 2.6 | 0.6 | 8.4 | 0.9 | 0.0 | 0.0 | | | | Not Applicable | Not Applicable |
| BS-30 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | 0.5' - 1.1' | VOCs-STARS, SVOCs-STARS & Metals |
| BS-31 | 0.1 | 0.2 | 0.3 | 0.2 | 0.2 | 0.4 | 0.3 | 0.1 | | | | 2.0' - 2.9' | VOCs-STARS, SVOCs-STARS & Metals |
| BS-32 | 0.4 | 0.2 | I.R. | 0.0 | 0.2 | 0.0 | 0.0 | I.R. | | | | Not Applicable | Not Applicable |
| BS-33 | 1.9 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | | | | Not Applicable | Not Applicable |
| BS-34 | 0.5 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.0 | | | | Not Applicable | Not Applicable |
| BS-35 | 0.4 | 0.1 | 0.0 | 0.1 | 0.2 | 0.5 | 0.1 | | | | | Not Applicable | Not Applicable |
| BS-36 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | Not Applicable | Not Applicable |
| | | | | G | eneral Borings t | to Confirm the P | resence of Slag v | vithin the Propo | sed Undergroun | d Garage Study | Area | | |
| BS-37 | 0.2 | 0.1 | 3.2 | 0.4 | 0.1 | 0.1 | 0.9 | 0.4 | 0.3 | 0.1 | 0.0 | 6.0' – 7.7' | VOCs-TCL, SVOCs-TCL, PCBs, Pesticides & TAL Metals |
| BS-38 | 0.9 | 0.1 | 0.0 | 5.3 | 0.3 | 0.0 | 0.1 | I.R. | 0.0 | | | 6.0' - 7.1' | VOCs-TCL, SVOCs-TCL, PCBs, Pesticides & TAL Metals |
| BS-39 | 4.5 | 0.1 | 7.6 | 0.1 | 0.5 | 1.4 | 0.5 | 0.9 | 0.3 | 0.2 | | 6.0' - 6.7' | VOCs-TCL, SVOCs-TCL, PCBs, Pesticides & TAL Metals |

Note: All PID readings were collected utilizing a MiniRae 2000 photoionization detector and are representative of ppm VOC VOCs- STARS denotes sample analyzed for VOCs by USEPA Method 8260B NYSDEC STARS Constituents Only VOCs-TCL denotes sample analyzed for VOCs by USEPA Method 8260B TCL

SVOCs-TCL denotes sample analyzed for Semi-VOCs by USEPA Method 8270C TCL
SVOCs-STARS denotes sample analyzed for Semi-VOCs by USEPA Method 8270C NYSDEC STARS Constituents only

PCBs denotes sample analyzed for PCBs by USEPA Method 8082A

Pesticides denotes sample analyzed for Pesticides by USEPA Method 8081B

TAL Metals denotes sample analyzed for Target Analyte List Metals by USEPA Methods 6010 and 7471

Metals denotes sample analyzed for the Metals Arsenic, Cadmium, Chromium and Mercury by USEPA Methods 6010 and 7471

I.R. denotes insufficient recovery for this interval

--- denotes that no soil sample was collected as the interval was below the bottom of the soil boring

Remedial Investigation Report Proposed Port of Rochester Marina and Garage 4810 Lake Avenue and 1000 North River Street, Rochester, New York LaBella Project No. 206377

Table 2A

Soil Sample Analytical Results Summary

Project Round No. 1

Proposed Marina Development

Port of Rochester, Rochester, New York

Remedial Investigation

Detected Volatile Organic Compounds

(USEPA Methods 8260B Target Compound List and NYSDEC STARS List Compounds)

| | BH-4 (1.2' to 3.5') Composite | BH-5 (1.0' to 4.2') Composite | BH-6 (1.0' to 4.3') Composite | BS-5 (1.0' to 6.2') Composite | BS-5 (8.0' to 13.2') Composite | BS-5 (8.0' to 13.2') Composite | BS-7 (1.0' to 2.8') Composite | BS-7 (4.0' to 7.6') Composite | BS-9 (2.0' to 4.6') Composite | BS-9 (6.0' to 6.9') | Restricted Use Object | - |
|----------------------------|---|--|---|---|--------------------------------------|---|---|-------------------------------------|--|------------------------|---------------------------------|---------------|
| Parameter / Sample ID # | Fill & Native Material with Fill Containing Foundry Sand | Fill Material Containing Ash, Slag & Cinders | Fill Material Containing Slag & Cinders | Fill Material Containing Slag, Foundry Sand, Ash & Cinders | Native Material | Native Material | Fill Material Containing Foundry Sand & Slag | Native Material | Fill Material Containing Concrete, Cinders, Ash & Slag | Native Material | Protection of Public Health: | Protection of |
| | Hist | orical Turntable A | Area | Regulated Sol | id Waste Area | Regulated Solid Waste Area (QA/QC Duplicate) | | Regulated Soli | id Waste Area | | | Groundwater |
| Volatile Organic Compound | unds | | | | | | | | | | | |
| Acetone | ND <27 | 14 J | 14 J | 17 J | 16 J | 17 J | 7 J | 34 | 14 J | 14 J | 500,000 | 50 |
| Methylene Chloride | 7 B | 9 B | 40 B | 6 B | 6 B | 6 B | 12 B | 13 B | 10 B | 9 B | 500,000 | 50 |
| Trichlorofluoromethane | ND <5 | ND <6 | ND <11 | ND <5 | ND <6 | ND <6 | ND <6 | 1 BJ | 1 BJ | ND <5 | Not Listed | Not Listed |
| Carbon Disulfide | ND <4 | ND <6 | ND <11 | 2 J | ND <6 | ND <6 | ND <6 | ND <6 | ND <5 | ND <5 | Not Listed | Not Listed |
| Tentatively Identified Com | pounds - Volatile | Organic Compou | nds | | | | | | | | | |
| Propene | | | | 12 JN | | | | | | | | |
| Unknown | Not Tested for TICs | Not Tested for TICs | Not Tested for TICs | 8 J | None Detected | None Detected | | | | | Not Listed | Not Listed |
| Unknown Silanol | 1100 | 1100 | 1100 | | | | 6 J | 6 J | 6 J | 6 J | | |

⁻ **Bold Type** denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Groundwater.

⁻ Bold Type in a Shaded Cell denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Public Health: Commercial Use.

⁻ J denotes an estimated value where the result is less than the quantitation limit, but greater than zero.

⁻ N denotes a TIC where the identification is based on the Mass Spectral library search.

⁻ ND denotes compound not detected above the method detection limits.

⁻ B denotes that the analyte was detected in the associated blank.

⁻ All concentrations reported in ug/kg.

Table 2B

Soil Sample Analytical Results Summary

Project Rounds Nos. 2 & 3

Proposed Marina Development

Port of Rochester, Rochester, New York

Remedial Investigation

Detected Volatile Organic Compounds

(USEPA Methods 8260B Target Compound List and NYSDEC STARS List Compounds)

| | BS-13 (2.0' to 3.1') | BS-18 (2.0' to 3.4') | BS-21 (4.0' to 4.5') | BS-22 (2.0' to 3.0') | BS-27 (4.5' to 5.5') | BS-28 (4.0' to 5.4') | BS-30 (0.5' to 1.1') | BS-31 (2.0' to 2.9') | Restricted Use Object | _ |
|----------------------------|--|--|----------------------------------|---|---|--|---|----------------------------------|------------------------------|------------------------------|
| Parameter / Sample ID # | Fill Material Containing Slag, Ash & Asphalt | Fill Material Containing Slag, Ash & Cinders | Fill Material Containing Slag | Fill Material & Native Soil w/Fill Material Containing Foundry Sand and Slag | Fill Material Containing Foundry Sand & Slag | Fill Material Containing Foundry Sand, Slag, Cinders & Ash | Fill Material Containing Foundry Sand | Fill Material Containing Slag | Protection of Public Health: | Protection of Groundwater |
| | | | | Regulated Sol | id Waste Area | | | | Obje | |
| Volatile Organic Compounds | S | | | | | | | | | |
| Naphthalene | ND <5 | ND <6 | ND <5 | ND <5 | ND <6 | ND <5 | 1 BJ | ND <6 | 500,000 | 12,000 |

⁻ **Bold Type** denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Groundwater.

⁻ Bold Type in a Shaded Cell denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Public Health: Commercial Use.

⁻ J denotes an estimated value where the result is less than the quantitation limit, but greater than zero.

⁻ ND denotes compound not detected above the method detection limits.

⁻ B denotes that the analyte was detected in the associated blank.

⁻ All concentrations reported in ug/kg.

Table 3A

Soil Sample Analytical Results Summary

Project Round No. 1

Proposed Marina Development

Port of Rochester, Rochester, New York

Remedial Investigation

Detected Semi-Volatile Organic Compounds

(USEPA Methods 8270C NYSDEC STARS List Compounds)

| | | | (652111 | - IVICTIONS O | | | 5 List Comp | | | | | |
|---|---|--|---|---|--------------------------------------|--|--|-------------------------------------|--|------------------------|---------------------------------|------------------------------|
| | BH-4 (1.2' to 3.5') Composite | BH-5 (1.0' to 4.2') Composite | BH-6 (1.0' to 4.3') Composite | BS-5 (1.0' to 6.2') Composite | BS-5 (8.0' to 13.2') Composite | BS-5 (8.0' to 13.2') Composite | BS-7 (1.0' to 2.8') Composite | BS-7 (4.0' to 7.6') Composite | BS-9 (2.0' to 4.6') Composite | BS-9 (6.0' to 6.9') | Restricted Use Soil | Cleanup Objectives |
| Parameter / Sample ID # | Fill & Native Material with Fill Containing Foundry Sand | Fill Material Containing Ash, Slag & Cinders | Fill Material Containing Slag & Cinders | Fill Material Containing Slag, Foundry Sand, Ash & Cinders | Native Material | Native Material | Fill Material Containing Foundry Sand & Slag | Native Material | Fill Material Containing Concrete, Cinders, Ash & Slag | Native Material | Protection of Public Health: | Protection of Groundwater |
| | F | listorical Turntable Arc | ea | Regulated Sol | lid Waste Area | Regulated Solid Waste Area QA/QC Duplicate | | Regulated So | lid Waste Area | | Commercial Use | Groundwater |
| Semi-Volatile Organic Compounds | • | | | | | | | | | | | |
| Acenaphthene | ND <360 | ND <2,000 | ND <760 | 30 J | ND <400 | ND <390 | 26 J | ND <400 | ND <350 | ND <360 | 500,000 | 98,000 |
| Acenaphthylene | ND <360 | ND <2,000 | ND <760 | 690 | ND <400 | ND <390 | ND <370 | ND <400 | 440 | ND <360 | 500,000 | 107,000 |
| Anthracene | ND <360 | ND <2,000 | ND <760 | 380 | ND <400 | ND <390 | 61 J | ND <400 | 130 J | ND <360 | 500,000 | 1,000,000 |
| Benzo(a)anthracene | ND <360 | 330 J | ND <760 | 1,800 | ND <400 | ND <390 | 150 J | ND <400 | 430 | ND <360 | 5,600 | 1,000 |
| Benzo(b)fluoranthene | ND <360 | 750 J | ND <760 | 3,300 | ND <400 | ND <390 | 190 J | ND <400 | 1,600 | 36 J | 5,600 | 1,700 |
| Benzo(k)fluoranthene | ND <360 | 300 J | ND <760 | 990 | ND <400 | ND <390 | 200 J | ND <400 | 1,600 | ND <360 | 56,000 | 1,700 |
| Benzo(g,h,I)perylene | ND <360 | 540 J | ND <760 | 1,000 | ND <400 | ND <390 | 70 J | ND <400 | 570 | 22 J | 500,000 | 1,000,000 |
| Benzo(a)pyrene | ND <360 | 540 J | ND <760 | 2,200 | ND <400 | ND <390 | 120 J | ND <400 | 930 | 27 J | 1,000 | 22,000 |
| Chrysene | ND <360 | 400 J | ND <760 | 1,600 | ND <400 | ND <390 | 130 J | ND <400 | 430 | ND <360 | 56,000 | 1,000 |
| Dibenz(a,h)anthracene | ND <360 | 140 J | ND <760 | 330 J | ND <400 | ND <390 | 22 J | ND <400 | 200 J | ND <360 | 560 | 1,000,000 |
| Fluoranthene | ND <360 | 510 J | ND <760 | 3,000 | ND <400 | ND <390 | 320 J | ND <400 | 600 | 38 J | 500,000 | 1,000,000 |
| Fluorene | ND <360 | ND <2,000 | ND <760 | 150 J | ND <400 | ND <390 | ND <370 | ND <400 | 24 J | ND <360 | 500,000 | 386,000 |
| Indeno(1,2,3-cd)pyrene | ND <360 | 460 J | ND <760 | 990 | ND <400 | ND <390 | 66 J | ND <400 | 560 | 23 J | 5,600 | 8,200 |
| Naphthalene | ND <360 | 340 J | ND <760 | 42 J | ND <400 | ND <390 | ND <370 | ND <400 | 25 J | ND <360 | 500,000 | 12,000 |
| Phenanthrene | ND <360 | 130 J | ND <760 | 1,200 | ND <400 | ND <390 | 260 J | ND <400 | 79 J | ND <360 | 500,000 | 1,000,000 |
| Pyrene | ND <360 | 460 J | ND <760 | 2,500 | ND <400 | ND <390 | 220 J | ND <400 | 630 | 24 J | 500,000 | 1,000,000 |
| bis (2-Ethylhexyl) Phthalate | Not Tested | Not Tested | Not Tested | 61 J | ND <400 | ND <390 | ND <370 | ND <400 | ND <350 | ND <360 | Not Listed | Not Listed |
| Carbazole | Not Tested | Not Tested | Not Tested | 130 J | ND <400 | ND <390 | ND <370 | ND <400 | 40 J | ND <360 | Not Listed | Not Listed |
| Dibenzofuran | Not Tested | Not Tested | Not Tested | 68 J | ND <400 | ND <390 | ND <370 | ND <400 | ND <350 | ND <360 | 350,000 | 210,000 |
| 2-Methylnaphthalene | Not Tested | Not Tested | Not Tested | 25 J | ND <400 | ND <390 | 20 J | ND <400 | ND <350 | ND <360 | Not Listed | Not Listed |
| Tentatively Identified Compounds - Semi | i-Volatile Organic Com | pounds | T | 1 | | 1 | 1 | | 1 | | | T |
| Cyclopenta (def) phenanthreno | | | | | | | | | 230 JN | | | |
| Heptadecane | _ | | | 150 JN | | | | | | | | |
| 1-Methylanthracene | 4 | 1 | | 270 JN | | | | | | | 4 | |
| Unknown PAH | 4 | 1 | | 380 J | | | | | 380 J | | 4 | |
| Unknown PAH | | | | 150 JN | • | | | | | | | |
| Unknown | - | 1 | | 530 J | | | | | 140 J | 310 J | - 1 | |
| Unknown | - | | | 200 J | | | | | 200 J | 410 J | - | |
| 9,10-Anthracenedione | - | | | 440 JN | | | | | | | - | |
| Unknown PAH | Not Tested for TICs | Not Tested for TICs | Not Tested for TICs | 260 J | None Detected | None Detected | None Detected | None Detected | 660 J | | Not Listed | Not Listed |
| Unknown | - | 1 | | 160 J | | | | | | | - | |
| 2,6,10,15-Tetramethylheptade | - | 1 | | 420 JN | | | | | | | - | |
| Unknown PAH | - | | | 160 J 190 J | | | | | 160 J 150 J | | - | |
| Unknown PAH | - | 1 | | | | | | | | | - | |
| Unknown PAH | - | 1 | | 170 J | | | | | | | - | |
| Unknown PAH | - | | | 400 J | | | | | | | - | |
| Unknown PAH | - | 1 | | 1100 J | | | | | | | - | |
| Unknown | - | 1 | | 870 J 990 J | | | | | | | - | |
| Unknown | | <u> </u> | | 990 J | | | | | | | | |

⁻ Bold Type denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Groundwater.

⁻ Bold Type in a Shaded Cell denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Public Health: Commercial Use.

⁻ N denotes presumptive evidence of a tentatively identified compound where the identification is based on the Mass Spectral library search

⁻ J denotes an estimated value where the result is less than the quantitation limit, but greater than zero.

⁻ ND denotes compound not detected above the method detection limits. ----- denotes a TIC not detected in that specific sample.

All concentrations reported in ug/kg.

Table 3B

Soil Sample Analytical Results Summary Project Rounds Nos. 2 & 3

Proposed Marina Development

Port of Rochester, Rochester, New York

Remedial Investigation

Detected Semi-Volatile Organic Compounds

(USEPA Methods 8270C NYSDEC STARS List Compounds)

| | BS-13 (2.0' to 3.1') | BS-18 (2.0' to 3.4') | BS-21 (4.0' to 4.5') | BS-22 (2.0' to 3.0') | BS-27 (4.5' to 5.5') | BS-28 (4.0' to 5.4') | BS-30 (0.5' to 1.1') | BS-31 (2.0' to 2.9') | Restricted Use Soil | Cleanup Objectives |
|---------------------------------|--|--|----------------------------------|--|--|---|---|----------------------------------|---|------------------------------|
| Parameter / Sample ID # | Fill Material Containing Slag, Ash & Asphalt | Fill Material Containing Slag, Ash & Asphalt | Fill Material Containing Slag | Fill Material & Native Soil w/Fill Material Containing Foundry Sand and Slag | Fill Material Containing Foundry Sand & Slag | Fill Material Containing Foundry Sand, Slag, Cinders & Ash | Fill Material Containing Foundry Sand | Fill Material Containing Slag | Protection of Public Health: Commercial Use | Protection of Groundwater |
| | | | | Regulated Sol | lid Waste Area | | | | | |
| Semi-Volatile Organic Compounds | | | | | | | | | | |
| Acenaphthene | ND <7,200 | ND <370 | ND <350 | ND <350 | ND <400 | ND <360 | 440 J | ND <1,900 | 500,000 | 98,000 |
| Anthracene | ND <7,200 | ND <370 | ND <350 | 170 J | ND <400 | ND <360 | 5,600 J | ND <1,900 | 500,000 | 1,000,000 |
| Benzo(a)anthracene | 380 J | 22 J | ND <350 | 400 | 22 J | 26 J | 20,000 | ND <1,900 | 5,600 | 1,000 |
| Benzo(b)fluoranthene | ND <7,200 | 23 J | ND <350 | 700 | 26 J | 31 J | 27,000 | ND <1,900 | 5,600 | 1,700 |
| Benzo(k)fluoranthene | ND <7,200 | ND <370 | ND <350 | ND <350 | ND <400 | ND <360 | 11,000 | ND <1,900 | 56,000 | 1,700 |
| Benzo(g,h,I)perylene | ND <7,200 | ND <370 | ND <350 | 200 J | ND <400 | ND <360 | 10,000 | ND <1,900 | 500,000 | 1,000,000 |
| Benzo(a)pyrene | ND <7,200 | 21 J | ND <350 | 410 | ND <400 | ND <360 | 21,000 | ND <1,900 | 1,000 | 22,000 |
| Chrysene | ND <7,200 | 24 J | ND <350 | 400 | ND <400 | 30 J | 18,000 | ND <1,900 | 56,000 | 1,000 |
| Dibenz(a,h)anthracene | ND <7,200 | ND <370 | ND <350 | 77 J | ND <400 | ND <360 | 3,300 J | ND <1,900 | 560 | 1,000,000 |
| Fluoranthene | 410 J | 45 J | ND <350 | 780 | ND <400 | 30 J | 38,000 | ND <1,900 | 500,000 | 1,000,000 |
| Fluorene | ND <7,200 | ND <370 | ND <350 | ND <350 | ND <400 | ND <360 | 2,400 J | ND <1,900 | 500,000 | 386,000 |
| Indeno(1,2,3-cd)pyrene | ND <7,200 | ND <370 | ND <350 | 200 J | ND <400 | ND <360 | 9,500 | ND <1,900 | 5,600 | 8,200 |
| Naphthalene | ND <7,200 | ND <370 | ND <350 | ND <350 | ND <400 | ND <360 | 1,900 J | ND <1,900 | 500,000 | 12,000 |
| Phenanthrene | ND <7,200 | 26 J | ND <350 | 710 | ND <400 | ND <360 | 16,000 | ND <1,900 | 500,000 | 1,000,000 |
| Pyrene | 460 J | 36 J | ND <350 | 670 | ND <400 | 32 J | 30,000 | ND <1,900 | 500,000 | 1,000,000 |

- Bold Type denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Groundwater.
- Bold Type in a Shaded Cell denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Public Health: Commercial Use.
- N denotes presumptive evidence of a tentatively identified compound where the identification is based on the Mass Spectral library search
- J denotes an estimated value where the result is less than the quantitation limit, but greater than zero.
- ND denotes compound not detected above the method detection limits.
- All concentrations reported in ug/kg.

Table 4 **Soil Sample Analytical Results Summary Project Round No. 1 Proposed Marina Development** Port of Rochester, Rochester, New York **Remedial Investigation Detected Pesticides** (USEPA Methods 8081B)

| | BS-5 (1.0' to 6.2') Composite | BS-5 (8.0' to 13.2') (8.0' to 13.2') Composite QA/QC Duplicate | | BS-7 (1.0' to 2.8') | BS-7 (4.0' to 7.6') Composite | BS-9 (2.0' to 4.6') Composite | BS-9 (6.0' to 6.9') | Restricted Use Object | - |
|-------------------------|---|---|-----------------|---|-------------------------------------|--|------------------------|---|------------------------------|
| Parameter / Sample ID # | Fill Material Containing Slag, Foundry Sand, Ash & Cinders | Native Material | Native Material | Fill Material Containing Foundry Sand & Slag | Native Material | Fill Material Containing Concrete, Cinders, Ash & Slag | Native Material | Protection of Public Health: Commercial Use | Protection of Groundwater |
| | | | Regu | lated Solid Waste | Area | | | | |
| beta-BHC | 24 | ND <2.0 | ND <2.0 | ND <1.9 | ND <2.1 | ND <1.8 | ND <1.8 | 3,000 | 90 |
| delta-BHC | ND <19 | ND <2.0 | ND <2.0 | 1.6 J | ND <2.1 | 1.4 J | ND <1.8 | 500,000 | 250 |
| gamma-BHC | ND <19 | ND <2.0 | ND <2.0 | 1.2 J | ND <2.1 | ND <1.8 | ND <1.8 | 9,200 | 100 |
| 4,4'-DDD | ND <19 | ND <2.0 | ND <2.0 | 1.0 J | ND <2.1 | ND <1.8 | ND <1.8 | 92,000 | 14,000 |
| 4,4'-DDT | 35 | ND <2.0 | ND <2.0 | 2.5 | ND <2.1 | 2.2 | ND <1.8 | 47,000 | 136,000 |
| Dieldrin | ND <19 | ND <2.0 | ND <2.0 | ND <1.9 | ND <2.1 | 1.1 J | ND <1.8 | 1,400 | 100 |
| Endosulfan II | 9.4 J | ND <2.0 | ND <2.0 | 0.95 J | ND <2.1 | 0.85 J | 1.9 | 200,000 | 102,000 |
| Endosulfan Sulfate | 14 J | ND <2.0 | ND <2.0 | 0.99 J | 1.1 J | 1.0 J | ND <1.8 | 200,000 | 1,000,000 |
| Endrin | 17 J | ND <2.0 | ND <2.0 | ND <1.9 | ND <2.1 | ND <1.8 | ND <1.8 | 89,000 | 60 |
| Endrin Aldehyde | ND <19 | ND <2.0 | ND <2.0 | ND <1.9 | ND <2.1 | 1.2 J | ND <1.8 | Not Listed | Not Listed |
| Heptachlor Epoxide | ND <19 | ND <2.0 | ND <2.0 | ND <1.9 | ND <2.1 | 0.92 J | ND <1.8 | Not Listed | Not Listed |
| Methoxychlor | 20 | ND <2.0 | ND <2.0 | 2.0 | ND <2.1 | ND <1.8 | ND <1.8 | Not Listed | Not Listed |

⁻ Bold Type denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Groundwater.

⁻ Bold Type in a Shaded Cell denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Public Health: Commercial Use.

⁻ J denotes an estimated value where the result is less than the quantitation limit, but greater than zero.

⁻ ND denotes analyte not detected above the method detection limits.

^{- *} denotes that the analysis is not within the quality control limits.

⁻ All concentrations reported in ug/kg.

Table 5A Soil Sample Analytical Results Summary Project Round #1 Proposed Marina Development Port of Rochester, Rochester, New York Remedial Investigation Detected Metals (USEPA Methods 6010 and 7471)

| | BH-4 (1.2' to 3.5') Composite | BH-5 (1.0' to 4.2') Composite | BH-6 (1.0' to 4.3') Composite | BS-1 (2.0' to 3.5') | BS-2 (2.0' to 2.4') | BS-3 (1.1' to 1.7') | BS-4 (1.0' to 1.5') | BS-5 (8.0' to 13.2') Composite | BS-6 (2.0' to 2.7') | BS-7 (1.0' to 2.8') Composite | BS-8 (2.0' to 2.5') | BS-9 (2.0' to 4.6') Composite | BS-10 (0.6' to 1.3') | BS-11 (0.0' to 1.4') | BS-12 (0.4' to 0.6') | | e Soil Cleanup ectives |
|-------------------------|-------------------------------------|---|-------------------------------------|---------------------------------|--|--|---|--------------------------------------|---|---|---|--|-------------------------|-------------------------|-------------------------|---------------------------------|------------------------------|
| Parameter / Sample ID # | Fill Contains Foundry Sand | Fill Contains Ash, Slag & Cinders | Fill Contains Slag & Cinders | Fill Contains Slag & Cinders | Fill Contains Foundry Sand, Slag & Cinders | Fill Contains Reworked Native Soil | Fill Contains Cinders & Refractory Sand | Native Material | Fill Contains Foundry Sand & Slag | Fill Contains Foundry Sand & Slag | Fill Contains Foundry Sand & Slag | Fill Contains Concrete, Cinders, Ash & Slag | Fill Contains Slag | Fill Contains Slag | Fill Contains Slag | Protection of Public Health: | Protection of Groundwater |
| | Histo | orical Turntable | Area | | | | | | Regulated Sol | id Waste Area | | | | | | Commercial Use | Ground water |
| Aluminum | N. T I | N . T . 1 | N (T) | Not Tested | Not Tested | Not Tested | Not Tested | 10,400 E* | Not Tested | 6,900 | Not Tested | 21,200 | Not Tested | Not Tested | Not Tested | Not Listed | Not Listed |
| Antimony | Not Tested | Not Tested | Not Tested | ND <16.9 | ND <16.3 | ND <16.9 | ND <17.7 | ND <14.7 N | ND <16.7 | ND <16.7 | ND <15.8 | ND <15.6 | ND <16.0 | ND <16.3 | ND <14.7 | Not Listed | Not Listed |
| Arsenic | 3.4 | 5.3 | 6.1 | 14.6 | 4.7 | 4.0 | 5.1 | 9.0 N | 6.5 | 13.7 | 2.5 | ND <2.1 | 4.3 | 3.3 | 5.1 | 16 | 16 |
| Barium | 39.5 | 558 | 46.2 | Not Tested | Not Tested | Not Tested | Not Tested | 103 NE* | Not Tested | 190 | Not Tested | 362 | Not Tested | Not Tested | Not Tested | 400 | 820 |
| Beryllium | Not Tested | Not Tested | Not Tested | 1.6 E | 2.9 E | 0.34 E | 5.0 E | 2.1 E | 0.74 E | 2.1 E | 6.0 E | 3.2 E | 4.5 E | 0.60 E | 0.70 E | 590 | 47 |
| Cadmium | ND <0.21 | ND <0.25 | ND <0.46 | 0.55 | ND <0.22 | 0.25 | ND <0.24 | 0.46 N | 0.31 | 0.62 | ND <0.21 | ND <0.21 | 0.42 | 0.25 | 0.32 | 9.3 | 7.5 |
| Calcium | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | 125,000 | Not Tested | 34,200 | Not Tested | 214,000 | Not Tested | Not Tested | Not Tested | Not Listed | Not Listed |
| Chromium | 7.0 E | 2.2 E | 10.9 E | 16.0 E | 5.4 E | 7.8 E | 2.3 E | 16.0 NE* | 9.8 E | 28.9 E | 1.5 E | 1.8 E | 6.5 E | 7.4 E | 9.0 E | 400 | 19 |
| Cobalt | | | | Not Tested | Not Tested | Not Tested | Not Tested | 4.2 E | Not Tested | 8.50 | Not Tested | 0.12 B | Not Tested | Not Tested | Not Tested | Not Listed | Not Listed |
| Copper | Not Tested | Not Tested | Not Tested | 20.5 | 6.3 | 26.1 | 4.2 | 11.8 E | 25.1 | 41.4 | 7.2 | 1.1 | 10.6 | 12.7 | 16.1 | 270 | 1,720 |
| Iron | | | | Not Tested | Not Tested | Not Tested | Not Tested | 70,600 E* | Not Tested | 223,000 | Not Tested | 2,070 | Not Tested | Not Tested | Not Tested | Not Listed | Not Listed |
| Lead | 8.4 E | 10.7 E | 9.3 E | 82.2 E | 14.7 E | 15.5 E | 5.5 E | 16.0 E | 74.6 E | 89.9 E | 6.2 E | 1.2 E | 47.7 E | 27.9 E | 38.1 E | 1,000 | 450 |
| Magnesium | Not Tooted | Not Tostad | Not Tooted | Not Tested | Not Tooted | Not Tooted | Not Tooted | 9,560 E* | Not Tosted | 4,560 | Not Tooted | 13,500 | Not Tested | Not Tooted | Not Tosted | Not Listed | Not Listed |
| Manganese | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | 1,300 E | Not Tested | 3,340 | Not Tested | 162 | Not Tested | Not Tested | Not Tested | 10,000 | 2,000 |
| Mercury | ND <0.019 | 0.073 | ND <0.041 | 0.047 | 0.063 | 0.058 | ND <0.020 | ND <0.019 | 0.074 | 0.026 | 0.026 | ND <0.017 | 0.066 | 0.062 | 0.063 | 2.8 | 0.73 |
| Nickel | Not Tested | Not Tested | Not Tested | 9.6 E | 3.6 E | 7.9 E | 2.9 E | 8.6 NE* | 29.2 E | 13.8 E | 3.2 E | 0.74 E | 6.4 E | 8.5 E | 10.0 E | 310 | 130 |
| Potasium | Not Tested | Not Tested | Not rested | Not Tested | Not Tested | Not Tested | Not Tested | 940 | Not Tested | 1,630 | Not Tested | 3,300 | Not Tested | Not Tested | Not Tested | Not Listed | Not Listed |
| Selenium | ND <4.1 | ND <5.0 | ND <9.2 | ND <4.5 | ND <4.3 | ND <4.5 | ND <4.7 | ND <3.9 N* | ND <4.4 | ND <4.4 | ND <4.2 | ND <4.2 | ND <4.3 | ND <4.4 | ND <3.9 | 1,500 | 4 |
| Silver | ND <0.52 | ND <0.63 | ND <1.1 | ND <0.56 | ND <0.57 | ND <0.56 | ND <0.57 | ND <0.49 | ND <0.55 | ND <0.55 | ND <0.54 | ND <0.56 | 0.68 | ND <0.55 | ND <0.53 | 1,500 | 8.3 |
| Sodium | | | | Not Tested | Not Tested | Not Tested | Not Tested | 354 N* | Not Tested | 943 | Not Tested | 627 | Not Tested | Not Tested | Not Tested | Not Listed | Not Listed |
| Thallium | Not Tastad | Not Tostad | Not Tastad | ND <6.7 | ND <6.5 | ND <6.8 | ND <7.1 | ND <5.9 N | ND <6.7 | ND <6.7 | ND <6.3 | ND <6.2 | ND <6.4 | ND <6.5 | ND <5.9 | Not Listed | Not Listed |
| Vanadium | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | 16.7 E | Not Tested | 34.4 | Not Tested | 5.3 | Not Tested | Not Tested | Not Tested | Not Listed | Not Listed |
| Zinc | | | | 845 | 78.7 | 51.1 | 16.9 | 216 E* | 204 | 473 | 11.8 | 4.9 | 91.3 | 58.6 | 160 | 10,000 | 2,480 |

- Bold Type denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Groundwater.
- Bold Type in a Shaded Cell denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Public Health: Commercial Use.
- ND denotes analyte not detected above the method detection limits.
- N denotes that the spike sample recovery was not within the quality control limits.
- E denotes an estimated value due to the presence of interferences.
- B denotes that the analyte was detected in the associated blank.
- SB denotes Site Background level.
- * denotes that the spike and/or duplicate analysis was not withion the quality control limits.
- All concentrations reported in mg/kg.

Table 5B
Soil Sample Analytical Results Summary
Project Rounds Nos. 2 & 3
Proposed Marina Development
Port of Rochester, Rochester, New York
Remedial Investigation
Detected Metals
(USEPA Methods 6010 and 7471)

| | BS-13 (2.0' to 3.1') | BS-18 (2.0' to 3.4') | BS-21 (4.0' to 4.5') | BS-22 (2.0' to 3.0') | BS-27 (4.5' to 5.5') | BS-28 (4.0' to 5.4') | BS-30 (0.5' to 1.1') | BS-31 (2.0' to 2.9') | Restricted Use Object | - |
|-------------------------|--|--|----------------------------------|--|--|---|---|----------------------------------|---|------------------------------|
| Parameter / Sample ID # | Fill Material Containing Slag, Ash & Asphalt | Fill Material Containing Slag, Ash & Cinders | Fill Material Containing Slag | Fill Material & Native Soil w/Fill Material Containing Foundry Sand and Slag | Fill Material Containing Foundry Sand & Slag | Fill Material Containing Foundry Sand, Slag, Cinders & Ash | Fill Material Containing Foundry Sand | Fill Material Containing Slag | Protection of Public Health: Commercial Use | Protection of Groundwater |
| | | | | Regulated Sol | id Waste Area | | | | | |
| Arsenic | 2.3 | 5.1 | ND <2.0 | ND <1.9 | 18.7 | ND <2.2 | 4.8 | 18.5 | 16 | 16 |
| Cadmium | 0.26 | 0.27 | ND <0.20 | ND <0.19 | 2.7 | ND <0.22 | ND <0.21 | 1.8 | 9.3 | 7.5 |
| Chromium | 4.6 E | 3.9 E | 1.4 E | 1.4 E | 62.6 E | 1.7 | 7.2 E | 39.0 E | 400 | 19 |
| Mercury | 0.065 | 0.024 | ND <0.019 | 0.021 | 0.030 | 0.186 | 0.038 | 0.025 | 2.8 | 0.73 |

- Bold Type denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Groundwater.
- Bold Type in a Shaded Cell denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Public Health: Commercial Use.
- ND denotes analyte not detected above the method detection limits.
- N denotes that the spike sample recovery was not within the quality control limits.
- E denotes an estimated value due to the presence of interferences.
- B denotes that the analyte was detected in the associated blank.
- SB denotes Site Background level.
- All concentrations reported in mg/kg.

Table 6 Soil Sample Analytical Results Summary Project Round No. 1 Proposed Marina Development Port of Rochester, Rochester, New York Remedial Investigation Miscellaneous Parameters

| | | | BH-4 (1.2' to 3.5') Composite | BH-5 (1.0' to 4.2') Composite | BH-6 (1.0' to 4.3') Composite | BS-5 (1.0' to 6.2') Composite | BS-5 (8.0' to 13.2') Composite | BS-5 (8.0' to 13.2') Composite | BS-7 (1.0' to 2.8') | BS-7 (4.0' to 7.6') Composite | BS-7 (8.0' to 9.2') | BS-9 (2.0' to 4.6') Composite | BS-9 (6.0' to 6.9') | BS-9 (14.0' to 15.0') |
|------------------------------|-------|-------------------|-------------------------------------|--|---|---|--------------------------------------|---|---|-------------------------------------|------------------------|--|------------------------|--------------------------|
| Parameter / Sample ID # | Units | Analytical Method | | Fill Material Containing Ash, Slag & Cinders | Fill Material Containing Slag & Cinders | Fill Material Containing Slag, Foundry Sand, Ash & Cinders | Native Material | Native Material | Fill Material Containing Foundry Sand & Slag | Native I | Material | Fill Material Containing Concrete, Cinders, Ash & Slag | Native N | Material |
| | | | Hist | orical Turntable A | Area | Regulated So | lid Waste Area | Regulated Solid Waste Area (QA/QC Duplicate) | | | Regulated Sol | id Waste Area | | |
| Total Petroleum Hydrocarbons | mg/kg | SW8463 9012 | 305 | 218 | 511 | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested | Not Tested |
| Total Cyanide | ug/kg | MCAWW 1664 SGT | Not Tested | Not Tested | Not Tested | ND <0.95 | ND <1.1 | ND <0.98 | ND <1.1 | ND <1.2 | Not rested | ND <1.1 | ND <1.1 | NOL LESIEU |
| Total Organic Carbon | mg/kg | KAHN | Not rested | Not rested | Not rested | Not Tested | 3,210 | Not Tested | Not Tested | Not Tested | ND <658 | Not Tested | Not Tested | 12,000 |

⁻ ND denotes compound not detected above the method detection limits.

Table 7 Groundwater Sample Analytical Results Summary Project Round No. 1

Proposed Marina Development Port of Rochester, Rochester, New York Remedial Investigation

Detected Volatile Organic Compounds

(USEPA Methods 8260B Target Compound List and NYSDEC STARS List Compounds)

| Parameter / Sample ID # | MW-BH6 | MW-BS5 | MW-BH5 (Duplicate of MW-BS5) | MW-BS6 | 6 NYCRR Part 703 |
|---------------------------------|---------------------------------|---------------|------------------------------------|---------|--------------------------|
| T arameter / Sample 15 # | Historical Turntable Area | Regul | ated Solid Waste | e Area | Groundwater Standards |
| Volatile Organic Compounds | | | | | |
| Acetone | ND <5.0 | 3.2 J | 2.8 J | 19 | 50 |
| 2-Butanone | ND <5.0 | ND <5.0 | ND <5.0 | 2.6 J | 50 |
| Carbon Disulfide | ND <1.0 | ND <1.0 | ND <1.0 | 1.5 | 50 |
| Chloroform | 0.55 J | ND <1.0 | ND <1.0 | ND <1.0 | 7 |
| Toluene | 0.54 J | ND <1.0 | ND <1.0 | ND <1.0 | 5 |
| Tentatively Identified Volatile | Organic Compou | ınds | | | |
| Alkybenzene Isomer | None Detected | None Detected | None Detected | 4 J | Not Applicable |

- **Bold Type** denotes that the detected value exceeds its associated 6 NYCRR Part 703 Groundwater Standards.
- N denotes a TIC where the identification is based on the Mass Spectral library search.
- J denotes an estimated value that is less than the sample quantitaion limit.
- ND denotes compound not detected above the method detection limits.
- All concentrations reported in ug/L.

Groundwater Sample Analytical Results Summary

Project Round No. 1

Proposed Marina Development

Port of Rochester, Rochester, New York Remedial Investigation

Detected Semi-Volatile Organic Compounds

(USEPA Methods 8270C NYSDEC STARS List Compounds)

| Parameter / Sample ID # | MW-BH | 6 | MW-BS | 5 | MW-BH (Duplicate MW-BS5 | of | MW-BS | 6 | 6 NYCRR Part 703 |
|--|--------------------------|-------|--------|------|-------------------------------|---------|-------|----|--------------------------|
| | Historica Turntable A | - | | Regu | ılated Solid W | Vaste A | Area | | Groundwater Standards |
| Semi-Volatile Organic Compounds | | | | | | | | | |
| 4-Methylphenol | ND <10 | | ND <10 | | ND <10 | | 2 | J | 50 |
| Tentatively Identified Semi-Volatile | Organic Compo | ounds | | | | | | | |
| Unknown | 12 | BJ | 13 | BJ | 18 | BJ | 18 | J | |
| Unknown | 6 | J | 6 | J | 5 | J | 110 | J | |
| Unknown | 9 | J | 9 | BJ | 8 | BJ | 210 | J | |
| Unknown | 15 | BJ | 6 | J | 5 | J | 16 | J | |
| Unknown | 6 | J | 24 | J | 21 | J | 17 | J | |
| Unknown | 26 | J | 15 | J | 26 | BJ | 81 | J | |
| Butyl Ether Hexadecanoic Acid | 16 | JN | 16 | JN | 14 | JN | 34 | J | |
| Unknown | 10 | BJ | 9 | BJ | 8 | BJ | 310 | J | |
| Unknown | 23 | BJ | 20 | BJ | 19 | BJ | 81 | J | |
| Unknown | 31 | BJ | 27 | BJ | 36 | BJ | 15 | J | |
| Butyl Ether Octadecanoic Acid | 30 | JN | 28 | JN | 25 | JN | 17 | J | |
| Unknown | 22 | BJ | 19 | BJ | 17 | BJ | 32 | BJ | |
| Unknown | 9 | BJ | 8 | BJ | 5 | BJ | 18 | BJ | Not Applicable |
| Unknown | 27 | BJ | 25 | BJ | 61 | BJ | 42 | J | |
| Unknown | 16 | BJ | 14 | BJ | 18 | BJ | 19 | BJ | |
| Unknown | 26 | BJ | 53 | BJ | 43 | BJ | 27 | BJ | |
| Unknown | 54 | BJ | 46 | BJ | 8 | BJ | 41 | BJ | |
| Unknown | 10 | BJ | 7 | BJ | 10 | BJ | | | |
| Unknown | 13 | BJ | 13 | BJ | | | | | |
| Unknown | 43 | BJ | 36 | BJ | | | | | |
| Unknown Naphthalene Derivative | | | | | | | 28 | J | |
| Unknown Naphthalene Derivative | | | | | | | 23 | J | |
| Unknown Naphthalene Derivative | | | | | | | 66 | J | |
| Total Semi-Volatile Organic Compounds | 404 | | 394 | | 347 | | 1,207 | | |

- Bold Type denotes that the detected value exceeds its associated 6 NYCRR Part 703 Groundwater Standards.
- N denotes a TIC where the identification is based on the Mass Spectral library search.
- J denotes an estimated value that is less than the sample quantitaion limit.
- B denotes that the analyte was detected in the associated blank.
- ND denotes compound not detected above the method detection limits.
- ---- denotes a TIC not detected in that specific sample.
- All concentrations reported in ug/L.

Table 9 Groundwater Sample Analytical Results Summary Project Round No. 1 Proposed Marina Development Port of Rochester, Rochester, New York Remedial Investigation Detected Pesticides (USEPA Method 8081B)

| Parameter / Sample ID # | MW-BH6 | | MW-BS5 | | MW-BH5 (Duplicate of MW-BS5) | ì | MW-BS6 | | 6 NYCRR Part 703 | |
|--------------------------|---------------------------|----|----------------------------|----|------------------------------------|----|------------|----|--------------------------|--|
| r drameter / Gample 15 # | Historical Turntable A | | Regulated Solid Waste Area | | | | | | Groundwater Standards | |
| beta-BHC | 0.017 | J | ND <0.050 | | ND <0.050 | | ND <0.050 | | 0.04 | |
| gamma-BHC | ND <0.050 | | ND < 0.050 | | ND < 0.050 | | 0.020 | J | 0.05 | |
| delta-BHC | 0.033 | J | ND < 0.050 | | ND < 0.050 | | 0.019 | J | 0.04 | |
| 4,4'-DDD | 0.022 | J | 0.019 | J | 0.020 | J | ND < 0.050 | | 0.3 | |
| 4,4'-DDE | 0.037 | J | ND < 0.050 | | ND < 0.050 | | ND < 0.050 | | 0.2 | |
| 4,4'-DDT | ND < 0.050 | | ND < 0.050 | | ND < 0.050 | | 0.046 | J | 0.2 | |
| Endosulfan II | 0.017 | J | ND < 0.050 | | ND < 0.050 | | ND < 0.050 | | Below MDL | |
| Endrin | 0.024 | J | ND <0.050 | | ND <0.050 | | ND < 0.050 | | Below MDL | |
| Endrin Aldehyde | 0.011 | BJ | 0.0090 | BJ | 0.0080 | BJ | 0.013 | BJ | 5 | |
| Heptachlor Epoxide | 0.020 | J | 0.017 | J | 0.017 | J | 0.020 | J | 0.03 | |

- Bold Type denotes that the detected value exceeds its associated 6 NYCRR Part 703 Groundwater Standards.
- J denotes an estimated value that is less than the sample quantitaion limit.
- B denotes that the analyte was detected in the associated blank.
- ND denotes compound not detected above the method detection limits.
- "NR-C" means the compound does not list a Guidance Value under the GA Water Classification.
- "NR" means Not Regulated because the compound is not detectable by the analytical tests specified or approved pursuant to Part 700 of this Title
- "MDL" denotes Method Detection Limit.
- All concentrations reported in ug/L.

Groundwater Sample Analytical Results Summary

Project Round No. 1

Proposed Marina Development

Port of Rochester, Rochester, New York

Remedial Investigation

Target Analyte Metals

(USEPA Methods 6010 and 7471)

| | MW-BH6 | MW-BS5 | MW-BH5 (Duplicate of MW-BS5) | MW-BS6 | 6 NYCRR Part 703 |
|-------------------------|------------------------------|------------|------------------------------------|-----------|------------------|
| Parameter / Sample ID # | Historical Turntable Area | Re | Groundwater Standards | | |
| Aluminum | 660 | 731 | 661 | 911 | Not Available |
| Antimony | ND <20.0 | ND <20.0 | ND <20.0 | ND <20.0 | 3 |
| Arsenic | 1.81 | 1.62 | 1.45 | 1.88 | 25 |
| Barium | 378 | 645 | 619 | 165 | 1,000 |
| Beryllium | ND <2.0 | ND <2.0 | ND <2.0 | ND <2.0 | 1,100 |
| Cadmium | ND <1.0 | ND <1.0 | ND <1.0 | ND <1.0 | 10 |
| Calcium | 388,000 | 216,000 | 210,000 | 209,000 | Not Available |
| Chromium | ND <4.0 | ND <4.0 | ND <4.0 | ND <4.0 | 50 |
| Cobalt | ND <4.0 | ND <4.0 | ND <4.0 | ND <4.0 | Not Available |
| Copper | ND <10.0 | ND <10.0 | ND <10.0 | ND <10.0 | 200 |
| Iron | 5,820 | 12,100 | 11,000 | 2,630 | 300 |
| Lead | ND <1.00 | ND <1.00 | ND <1.00 | ND <1.00 | 25 |
| Magnesium | 80,100 | 37,500 | 36,500 | 25,700 | 35,000 |
| Manganese | 1,550 | 2,770 | 2,690 | 637 | 300 |
| Mercury | ND <0.200 | ND < 0.200 | ND <0.200 | ND <0.200 | 0.7 |
| Nickel | ND <10.0 | ND <10.0 | ND <10.0 | ND <10.0 | 100 |
| Potasium | 18,200 | 21,900 | 21,100 | 15,200 | Not Available |
| Selenium | ND <15.0 | ND <15.0 | ND <15.0 | ND <15.0 | 10 |
| Silver | ND <3.0 | ND <3.0 | ND <3.0 | ND <3.0 | 50 |
| Sodium | 348,000 | 444,000 | 430,000 | 125,000 | 20,000 |
| Thallium | ND <20.0 | ND <20.0 | ND <20.0 | ND <20.0 | 0.5 |
| Vanadium | ND <5.0 | ND <5.0 | ND <5.0 | ND <5.0 | Not Available |
| Zinc | 103 | 61.8 | 59.0 | 36.6 | 2,000 |

⁻ Bold Type denotes that the detected value exceeds its associated 6 NYCRR Part 703 Groundwater Standard

⁻ ND denotes analyte not detected above the method detection limits.

⁻ All concentrations reported in ug/L.

Soil Sample Analytical Results Summary Proposed Underground Garage Area Port of Rochester, Rochester, New York

Remedial Investigation

Detected Volatile Organic Compounds

(USEPA Methods 8260B Target Compound List and NYSDEC STARS List Compounds)

| | BS-27 (4.5' to 5.5') | BS-37 (6.0' to 7.7') | | BS-38 (6.0' to 7.1') | BS-39 (6.0' to 6.7') | Restricted Use Soil Cleanup Objectives | | |
|--------------------------------|---|---|----------------|---|---|--|------------------------------|--|
| Parameter/ Sample ID # | Fill Material Containing Foundry Sand & Slag | Fill Mater Containing Foundry Sa Slag, & A | ng and, | Fill Material Containing Slag & Ash | Fill Material Containing Foundry Sand, Slag, & Ash | Protection of Public Health: | Protection of Groundwater | |
| | | Regulat | Commercial Use | | | | | |
| Volatile Organic Compounds | | | | | | | | |
| Acetone | ND <6 | 13 | J | ND <25 | 8 J | 500,000 | 50 | |
| Carbon Disulfide | ND <6 | ND <5 | | ND <5 | 1 J | Not Listed | Not Listed | |
| Methylene Chloride | ND <6 | 16 | | 10 | 13 | 500000 | 50 | |
| Total VOCs | Not Detected | 29 | | 10 | 22 | Not Listed | Not Listed | |
| Tentatively Identified Compour | nds - Volatile Organi | c Compounds | 1 | | | | | |
| Ethylnaphthalene Isomer | | 33 | J | | | | | |
| Dimethylnaphthalene Isomer | | 41 | J | | | | | |
| Dimethylnaphthalene Isomer | | 57 | J | None Detected | None Detected | Not Listed | Not Listed | |
| Dimethylnaphthalene Isomer | Not Tested | 15 | J | None Detected | None Detected | Not Listed | Not Listed | |
| Biphenylene | for TICs | 26 | JN | | | | | |
| Dimethylnaphthalene Isomer | | 10 J | | | | | | |
| Total VOC TICs | | 182 | | None Detected | None Detected | Not Listed | Not Listed | |
| Total VOCs Including TICs | | 211 | | 10 | 22 | NOT LISTED | Not Listed | |

- Bold Type denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Groundwater.
- Bold Type in a Shaded Cell denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Public Health: Commercial Use.
- J denotes an estimated value where the result is less than the quantitation limit, but greater than zero.
- N denotes a TIC where the identification is based on the Mass Spectral library search.
- ND denotes compound not detected above the method detection limits.
- B denotes that the analyte was detected in the associated blank.
- All concentrations reported in ug/kg.

Soil Sample Analytical Results Summary Proposed Underground Garage Area

Port of Rochester, Rochester, New York

Remedial Investigation

Detected Semi-Volatile Organic Compounds (USEPA Methods 8270C NYSDEC STARS List Compounds)

| | BS-27 (4.5' to 5.5') | | BS-37 (6.0' to 7.7') | BS- (6.0' to | | BS-39 (6.0' to 6.7') | Restricted Use Soil | Cleanup Objectives |
|--|--|-----|--|---|---------|--|---|------------------------------|
| Parameter / Sample ID # | Fill Material Containing Found Sand & Slag | ry | Fill Material Containing Foundry Sand, Slag, & Ash | Fill Material Containing Slag & Ash | | Fill Material Containing Foundry Sand, Slag, & Ash | Protection of Public Health: Commercial Use | Protection of Groundwater |
| | | | Regulated Sol | | | | | |
| Semi-Volatile Organic Compounds | | | | | | | | |
| Benzo(a)anthracene | 22 | J | 66 J | 26 | J | ND <340 | 5,600 | 1,000 |
| Benzo(b)fluoranthene | 26 | J | 90 J | 30 | J | ND <340 | 5,600 | 1,700 |
| Benzo(g,h,I)perylene | ND <400 | | 39 J | 21 | J | ND <340 | 500,000 | 1,000,000 |
| Benzo(a)pyrene | ND <400 | | 46 J | 22 | J | ND <340 | 1,000 | 22,000 |
| Chrysene | ND <400 | | 61 J | 23 | J | ND <340 | 56,000 | 1,000 |
| Fluoranthene | ND <400 | | 94 J | 30 | J | ND <340 | 500,000 | 1,000,000 |
| Indeno(1,2,3-cd)pyrene | ND <400 | | 35 J | 17 | J | ND <340 | 5,600 | 8,200 |
| Phenanthrene | ND <400 | | 46 J | 17 | J | ND <340 | 500,000 | 1,000,000 |
| Pyrene | ND <400 | | 84 J | 29 | J | ND <340 | 500,000 | 1,000,000 |
| Bis (2-ethylhexyl) phthalate | ND <400 | | ND <350 | 84 | J | ND <340 | Not Listed | Not Listed |
| Tentatively Identified Compounds - Semi- | Volatile Organic Co | omp | ounds | | | | | |
| | Not Tested for TIO | Cs | None Detected | None De | etected | None Detected | Not Listed | Not Listed |

- Bold Type denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Groundwater.
- Bold Type in a Shaded Cell denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Public Health: Commercial Use.
- N denotes presumptive evidence of a tentatively identified compound where the identification is based on the Mass Spectral library search
- $\,$ J denotes an estimated value $\,$ where the result is less than the quantitation limit, but greater than zero.
- ND denotes compound not detected above the method detection limits.
- All concentrations reported in ug/kg.

Table 13 Soil Sample Analytical Results Summary Proposed Underground Garage Area Port of Rochester, Rochester, New York Remedial Investigation Detected Metals

(USEPA Methods 6010 and 7471)

| | BS-10 (0.6' to 1.3') | | BS-27 (4.5' to 5.5') | BS-37 (6.0' to 7.7' |) | BS-38 (6.0' to 7.1' | ') | BS-39 (6.0' to 6.7' |) | Restricted Use Soil | Cleanup Objectives | |
|---------------------------|-------------------------|---|-------------------------|--|----|---|----|--|----|---------------------------------|------------------------------|--|
| Parameter/ Sample ID # | Fill Contains SI | | | Fill Material Containing Foundry Sand, Slag, & Ash | | Fill Material Containing Slag & Ash | | Fill Material Containing Foundry Sand, Slag, & Ash | | Protection of Public Health: | Protection of Groundwater | |
| | | | Commercial Use | 0104114 | | | | | | | | |
| Aluminum | Not Tested | | Not Tested | 54,700 | Е | 951 | | 44,400 | Е | Not Listed | Not Listed | |
| Antimony | ND <16.0 | | Not Tested | ND <147 | | ND <135 | | ND <151 | | Not Listed | Not Listed | |
| Arsenic | 4.3 | | 18.7 | 36.3 | N | ND <18.0 | | ND <20.1 | | 16 | 16 | |
| Barium | Not Tested | | Not Tested | 368 | Е | 11.6 | Е | 269 | Е | 400 | 820 | |
| Beryllium | 4.5 | Е | Not Tested | 42.6 | NE | ND <1.8 | | 4.2 | Е | 590 | 47 | |
| Cadmium | 0.42 | | 2.7 | 32.0 | NE | ND <1.8 | | ND <2.0 | | 9.3 | 7.5 | |
| Calcium | Not Tested | | Not Tested | 251,000 | Е | 342,000 | Е | 202,000 | | Not Listed | Not Listed | |
| Chromium | 6.5 | Е | 62.6 E | 37.8 | NE | ND <4.5 | | ND <5.0 | | 400 | 19 | |
| Cobalt | Not Tested | | Not Tested | 31.8 | NE | ND <4.5 | | ND <5.0 | | Not Listed | Not Listed | |
| Copper | 10.6 | | Not Tested | 33.6 | N | ND <9.0 | | ND <10.1 | | 270 | 1,720 | |
| Iron | Not Tested | | Not Tested | 6,080 | NE | 2,980 | NE | 4,780 | NE | Not Listed | Not Listed | |
| Lead | 47.7 | Е | Not Tested | 35.4 | N | 11.4 | NE | ND <10.1 | | 1,000 | 450 | |
| Magnesium | Not Tested | | Not Tested | 13,100 | Е | 6,790 | Е | 28,600 | Е | Not Listed | Not Listed | |
| Manganese | - Not rested | | Not Tested | 4,460 | Е | 150 | Е | 422 | Е | 10,000 | 2,000 | |
| Mercury | 0.066 | | 0.030 | ND <0.020 | | 0.106 | | ND <0.016 | | 2.8 | 0.73 | |
| Nickel | 6.4 | Е | Not Tested | 32.5 | N | ND <4.5 | | ND <5.0 | | 310 | 130 | |
| Potasium | Not Tested | | Not Tested | 4,260 | N | ND <271 | | 7,060 | N | Not Listed | Not Listed | |
| Selenium | ND <4.3 | | Not Tested | 45.3 | N | ND <36.1 | | ND <40.2 | | 1,500 | 4 | |
| Silver | 0.68 | | Not Tested | 7.8 | N | ND <4.5 | | ND <5.0 | | 1,500 | 8.3 | |
| Sodium | Not Tested | | Not Tested | 3,080 | N | ND <1,260 | | ND <1,410 | | Not Listed | Not Listed | |
| Thallium | ND <6.4 | | Not Tested | ND <58.6 | | ND <54.1 | | ND <60.4 | | Not Listed | Not Listed | |
| Vanadium | Not Tested | | Not Tested | 52.0 | NE | ND <4.5 | | 9.8 | NE | Not Listed | Not Listed | |
| Zinc | 91.3 | | Not Tested | 38.3 | N | 25.3 | N | ND <10.1 | | 10,000 | 2,480 | |

- Bold Type denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Groundwater.
- Bold Type in a Shaded Cell denotes that the detected value exceeds its associated 6 NYCRR Subpart 375-6 SCO for the Protection of Public Health: Commercial Use.
- ND denotes analyte not detected above the method detection limits.
- N denotes that the spike sample recovery was not within the quality control limits.
- E denotes an estimated value due to the presence of interferences.
- B denotes that the analyte was detected in the associated blank.
- SB denotes Site Background level.
- All concentatraions reported in mg/kg.

Table 14 Groundwater Sample Analytical Results Summary Proposed Underground Garage Area Port of Rochester, Rochester, New York Remedial Investigation Detected Volatile Organic Compounds

(USEPA Methods 8260B TCL & NYSDEC STARS Compounds)

| Parameter | MW-BS39 |) | 6 NYCRR Part 703 | | |
|-----------------------------------|------------------|----|-----------------------|--|--|
| Tarameter | Garage Arc | ea | Groundwater Standards | | |
| Volatile Organic Compounds | | | | | |
| Acetone | 7.0 | J | 50 | | |
| Carbon Disulfide | 1.2 | J | 50 | | |
| Methylene Chloride | 1.7 | BJ | 50 | | |
| Tentatively Identified Volatile (| Organic Compound | ls | | | |
| | None Detected | | Not Applicable | | |

- **Bold Type** denotes that the detected value exceeds its associated 6 NYCRR Part 703 Groundwater Standards.
- J denotes an estimated value that is less than the sample quantitaion limit.
- B denotes that the analyte was detected in the associated blank.
- All concentrations reported in ug/L.

Table 15 Groundwater Sample Analytical Results Summary Proposed Underground Garage Area Port of Rochester, Rochester, New York Remedial Investigation

Detected Semi-Volatile Organic Compounds (USEPA Method 8270C NYSDEC STARS List Compounds)

| Parameter | MW-BS39 | 6 NYCRR Part 703 |
|---|---------------|--------------------------|
| Tarameter | Garage Area | Groundwater Standards |
| Semi-Volatile Organic Compounds | None Detected | Not Applicable |
| Tentatively Identified Semi-Volatile Orga | nic Compounds | |
| Unknown | 9 I | 3J |
| Unknown | 10 I | BJ Not Applicable |
| Unknown | 16 | J |

- **Bold Type** denotes that the detected value exceeds its associated 6 NYCRR Part 703 Groundwater Standards.
- J denotes an estimated value that is less than the sample quantitaion limit.
- B denotes that the analyte was detected in the associated blank.
- ND denotes analyte not detected above the method detection limits.
- All concentrations reported in ug/L.

Table 16 Groundwater Sample Analytical Results Summary Proposed Underground Garage Area Port of Rochester, Rochester, New York Remedial Investigation Detected Pesticides (USEPA Method 8081B)

| Parameter | MW-BS39 | 6 NYCRR Part 703 | |
|-------------|-------------|--------------------------|--|
| i ai ametei | Garage Area | Groundwater Standards | |
| delta-BHC | 0.050 | 0.04 | |
| 4,4'-DDT | 0.049 J | 0.2 | |
| Heptachlor | 0.097 | 0.04 | |

- **Bold Type** denotes that the detected value exceeds its associated 6 NYCRR Part 703 Groundwater Standards.
- J denotes an estimated value that is less than the sample quantitaion limit.
- ND denotes analyte not detected above the method detection limits.
- All concentrations reported in ug/L.

Groundwater Sample Analytical Results Summary Proposed Underground Garage Area Port of Rochester, Rochester, New York Remedial Investigation

Target Analyte Metals

(USEPA Methods 6010 and 7471)

| Parameter/ | MW-BS39 | 6 NYCRR Part 703 | | | |
|-------------|-------------|-----------------------|--|--|--|
| Sample ID # | Garage Area | Groundwater Standards | | | |
| Aluminum | 487 | Not Available | | | |
| Antimony | ND <20.0 | 3 | | | |
| Arsenic | 3.14 | 25 | | | |
| Barium | 52.1 | 1,000 | | | |
| Beryllium | ND <2.0 | 1,100 | | | |
| Cadmium | ND <1.0 | 10 | | | |
| Calcium | 89,400 | Not Available | | | |
| Chromium | ND <4.0 | 50 | | | |
| Cobalt | ND <4.0 | Not Available | | | |
| Copper | ND <10.0 | 200 | | | |
| Iron | 1,120 | 300 | | | |
| Lead | 3.30 | 25 | | | |
| Magnesium | 7,660 | 35,000 | | | |
| Manganese | 370 | 300 | | | |
| Mercury | ND <0.200 | 0.7 | | | |
| Nickel | ND <10.0 | 100 | | | |
| Potasium | 38,500 | Not Available | | | |
| Selenium | ND <15.0 | 10 | | | |
| Silver | ND <3.0 | 50 | | | |
| Sodium | 403,000 | 20,000 | | | |
| Thallium | ND <20.0 | 0.5 | | | |
| Vanadium | ND <5.0 | Not Available | | | |
| Zinc | 27 | 2,000 | | | |

- **Bold Type** denotes that the detected value exceeds its associated 6 NYCRR Part 703 Groundwater Standards.
- ND denotes analyte not detected above the method detection limits.
- All concentrations reported in ug/L.



Appendix 1 Field Logs

300 STATE STREET, ROCHESTER, NEW YORK **ENVIRONMENTAL ENGINEERING CONSULTANTS**

PROJECT Remedial Investigation Proposed Port Marina: Port of Rochester Rochester, New York

BH-1 **BORING** SHEET JOB#

1 OF 1 206377 Phase 24 CHKD. BY:

REMARKS

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

WATER CASING

DATUM 31-Aug-06

LABELLA REPRESENTATIVE:

START DATE 31-Aug-06

END DATE

TIME

DATE

WATER LEVEL DATA

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

C. Stiles

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| ROC | K DRILI | _ING N | METHOD | Not Applicat | ble | | | | _ |
|-----|---------|--------|---|--------------|----------|-------|---|-----|---|
| D | | | | | | (| • | | N |
| Е | | | SA | MPLE | | eet | SAMPLE DESCRIPTION | PID | c |
| Р | | | SAMPLE SAMPLE DESCRIPTION O. DEPTH N-VALUE RECOVERY (FT.) /RQD(%) (FEET) | | | | | | |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | Ĭd | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | DE | | | s |
| | 76 | | | | | | FILL MATERIAL | 0.0 | |
| | 19 | | 01 01 | | 4.5.6 | 0.0' | Asphalt | 0.0 | |
| 1 | 13 | S-1 | 0' - 2' | 32 | 1.5-ft. | 0.7' | Gray cmf SAND and mf angular GRAVEL, moist, no odors. | | |
| _ | 14 | | | | | 1.3' | Brown mf ⁽⁺⁾ SAND, moist, no odors. | 0.0 | - |
| 2 | 8 | | | | | 2.0' | As above, moist, no odors. | | |
| _ | 6 | | <u>.</u> | 4.4 | | | Grading To | 0.0 | |
| 3 | 5 | S-2 | 2' - 4' | 11 | 1.7-ft. | | Brown f SAND, moist to damp, no odors. | | |
| | 4 | | | | | | FILL MATERIAL CONTAINING SLAG | 0.0 | |
| 4 | 5 | | | | | 3.4' | Dark gray c ⁽⁺⁾ mf SAND, little f angular to subangular Gravel (Incl. Cinders, Slag & | | 1 |
| | 4 | | | | | 0.1 | trace Ash), damp, no odors. | 0.0 | |
| 5 | 7 | S-3 | 4' - 6' | 11 | 1.0-ft. | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | |
| | 7 | | | | | 4.0' | Brown cm ⁽⁺⁾ f SAND, trace(-) Silt & Clay, wet, no odors. | | |
| 6 | 3 | | | | | 6.0 | Gray cm ⁽⁺⁾ f SAND, trace(-) Silt & Clay, wet, no odors. | | |
| | 6 | | | | | 0.0 | Grading To | 0.0 | |
| 7 | 6 | S-4 | 6' - 8' | 12 | 1.6-ft. | | Gray mf SAND w/ 1/2-in. layer of Peat @ 7.2-ft. BGS, wet to saturated @ 7.0-ft. | | |
| | 4 | | | | | | Total III of the William Layor of Four Green Land Book Hot to editard Green | 0.0 | |
| 8 | 9 | | | | | 8.0' | l As above, saturated, no odors. | | l |
| | 19 | | | | | 8.2' | Gray to reddish-brown cmf subrounded GRAVEL and cmf SAND, saturated, no | 0.0 | |
| 9 | 20 | S-5 | 8' - 10' | 39 | 0.9-ft. | 0.2 | odors. | | |
| | 20 | | | | | | | | |
| 10 | 8 | | | | | 10 0' | As above, saturated, no odors. | | 1 |
| | 16 | | | | | | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 11 | 17 | S-6 | 10' - 12' | 33 | 1.2-ft. | 10.4 | oray iii orate, catalated, ito odolo. | | |
| | 16 | | | | | | | 0.0 | |
| 12 | 17 | | | | | 12 0' | As above w/ interval of Gray cm ⁽⁺⁾ f SAND, some mf subrounded to subangular | | 1 |
| | | | | | | 12.0 | Gravel from 12.6 to 13.2-ft. BGS, saturated, no odors. | 0.0 | |
| 13 | 32 | S-7 | 12' - 14' | 56 | 1.5-ft. | | STATE OF THE POST SHARING AND | | |
| | 26 | | | | | | | 0.0 | |
| 14 | 14 | | | | | 14.0 | As above activisted no oders | | 1 |
| | | | | | | 14.0 | As above, saturated, no odors. | 0.0 | |
| 15 | 20 | S-8 | 14' - 16' | 41 | 1.4-ft. | 45.4 | Gray mf SAND, little mf subrounded to subangular Gravel, saturated, no odors. | | |
| | 21 | ĺ | | | | 15.1 | | 0.0 | |
| 16 | 19 | | . = 0 = : : - | | J | 1 | Bottom of Boring @ 16.0-ft. BGS | .l | |
| | | | <u>LEGEND</u> | | | ГОИ | FES: Native soil encountered between 3.7 & 4.0-ft. BGS | | |

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING # BH-1

300 STATE STREET, ROCHESTER, NEW YORK **ENVIRONMENTAL ENGINEERING CONSULTANTS**

PROJECT Remedial Investigation Proposed Port Marina: Port of Rochester

DATE

BORING SHEET

JOB#

CHKD. BY:

1 OF 1 206377 Phase 2

BH-2

REMARKS

Rochester, New York

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper)

GROUND SURFACE ELEVATION

TIME WATER CASING

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 29-Aug-06

BORING LOCATION

END DATE

29-Aug-06 WATER LEVEL DATA

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| BLOWS NO. DEPTH | PID READINGS |
|--|-----------------|
| | |
| | READINGS |
| | |
| | |
| THE SEATTONAL | |
| 15 FILL MATERIAL | 0.0 |
| 1 13 S-1 0'-2' 20 1.1-ft. 0.0' Asphalt | 0.0 |
| 7 0 - 2 20 1.1-1t. 0.4' Gray mf angular GRAVEL and cmf SAND, moist, no odors. | |
| 9 0.8' Deep brown cmf SAND, little f subangular Gravel, moist, no odors. | |
| 2 10 2.0' As above with piece of steel, moist, no odors. | 0.0 |
| 3 11 S-2 2'-4' 19 0.2-ft. | 0.0 |
| 3 S-2 2'-4' 19 0.2-ft. | |
| 5 | |
| 4 2 4.0' Brownish-gray mf SAND with Wood (Slight creosote odors - Apparent RR tie) | 0.0 |
| hotuson 42 8 46 ft PCS down to yest no odore | 0.0 |
| 5 3 S-3 4' - 6' 4 1.0-ft. between 4.2 & 4.0-it. BGS, damp to wet, no odols. | |
| | |
| 6 3 6.0' As above with Wood fragments @ 6.4-ft. BGS, saturated, no odors. | |
| Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.0 |
| 7 S-4 6' - 8' 16 1.3-ft. Gray c ⁽⁺⁾ mf SAND, some cmf subrounded to subangular Gravel, saturated, no | |
| 14 odors | 0.0 |
| 8 8 8 8 8 8 8 8 9 Gray mf subrounded to angular GRAVEL, some cmf ⁽⁺⁾ Sand, saturated, very | |
| alight westboard actes lower adag | 0.2 |
| 9 9 S-5 8' - 10' 18 1.2-ft. Silgnit weathered petroleum odor. Gray f SAND, saturated, very slight weathered petroleum odor. | |
| 8.9' Gray mf angular to subangular GRAVEL, some(+) mf SAND, saturated, very | |
| slight weathered petroleum odor. | |
| 9 10.01 Grow of SAND, gaturated, your slight weathered petroloum oder | 0.0 |
| 11 S-6 10' - 12' 22 0.9-ft. 10.0 Gray III SAND, Saturated, very slight weathered petitieum oddi. | |
| Gray mf ⁽⁺⁾ SAND, saturated, very slight weathered petroleum odor. | |
| 8 12.0' Gray f SAND, little cmf subrounded to subangular Gravel, saturated, no odors. | |
| | 0.0 |
| 13 - 10 S-7 12' - 14' 41 1 1-ff 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| 22 | |
| 4 17 Bottom of Boring @ 14.0-ft. BGS | |
| | |
| | |
| | |
| 16 | |
| LEGEND NOTES: Native soil encountered @ 6.7-ft. BGS | |

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING # BH-2

Associates, P.C. 300 STATE STREET, ROCHESTER, NEW YORK **ENVIRONMENTAL ENGINEERING CONSULTANTS**

PROJECT Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET

1 OF 1 206377 Phase 2a

JOB# CHKD. BY:

BH-3

REMARKS

CONTRACTOR: Nothnagle Drilling Co. **BORING LOCATION**

DRILLER Kevin Bush (Driller) & James Smith (Helper) LABELLA REPRESENTATIVE: C. Stiles

GROUND SURFACE ELEVATION START DATE 31-Aug-06

END DATE

DATUM 31-Aug-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

WATER LEVEL DATA

DATE

TIME WATER CASING

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| OC | K DRILL | ING M | 1ETHOD | Not Applicat | ble | | | 1 |
|----------|---------|--------|---------------|--------------|-----------|--------------|---|----------|
| D | | | | | | | | |
| Ε | | | SA | MPLE | | eet) | SAMPLE DESCRIPTION | PID |
| Ρ | | | | | | F) + | | READINGS |
| т . | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | Ĕ | | |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | DEPTH (Feet) | | |
| • | 45 | | (1 1.) | 71(45(70) | (, == , , | | FILL MATERIAL | |
| | 20 | | | | | 0.0' | Asphalt | 0.0 |
| 1 | | S-1 | 0' - 2' | 31 | 1.2-ft. | | • | |
| | 11 | | | | | 0.7' | Gray mf angular GRAVEL and cmf SAND, moist, no odors. FILL MATERIAL CONTAINING SLAG | |
| 2 | 10 | | | | | | | |
| | 8 | | | | | 2.0' | Brown and black cmf SAND, little cmf angular to subangular Gravel (Incl. Cinders | 0.0 |
| 3 | 11 | S-2 | 2' - 4' | 21 | 0.2-ft. | | and Slag), moist, no odors. | |
| • | 10 | | | | 0.2 | | | |
| 4 | 6 | | | | | | | |
| 4 | 5 | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.0 |
| | 3 | | | 1.0 | 0.05 | 4.0' | Gray mf SAND, little c ⁽⁺⁾ mf Gravel, wet, no odors. | 0.0 |
| 5 | 7 | S-3 | 4' - 6' | 10 | 0.3-ft. | | | |
| | 6 | | | | | | | |
| 6 | 5 | | | | | 6.01 | Crew and CANID west to activisated @ =7.2 ft no odore | |
| | | | | | | 6.0' | Gray mf SAND, wet to saturated @ ~7.2-ft., no odors. | 0.0 |
| 7 | 9 | S-4 | 6' - 8' | 22 | 1.7-ft. | | | |
| | 13 | | | | | | | 0.0 |
| 8 | 12 | | | | | | · | |
| - | 7 | | | | | 8.0' | As above, saturated, no odors. | 0.0 |
| 9 | 15 | S-5 | 8' - 10' | 35 | 0.3-ft. | | · | |
| 9 | 20 | 3-0 | 0 - 10 | 33 | 0.5-11. | | | |
| _ | 22 | | | | | | | |
|) | 7 | | | | | 10.0' | As above, saturated, no odors. | |
| | 8 | | | | | | | 0.0 |
| 1 | 13 | S-6 | 10' - 12' | 21 | 1.2-ft. | | | |
| | | | | | | | | 0.0 |
| 2 | 17 | | | | | | Gray mf SAND, some(+) cmf subrounded to subangular Gravel, saturated, no | |
| | 17 | | | | | 12.0 | | 0.0 |
| 3 | 22 | S-7 | 12' - 14' | 42 | 1.5-ft. | | odors. | |
| | 20 | | | | | 13.3' | Gray mf SAND, saturated, no odors. | 0.0 |
| 4 | 18 | | | | | | • | |
| _ | 11 | | | | | 14.0 | Gray mf SAND, some cmf subrounded to angular Gravel, saturated, no odors. | 0.0 |
| . ~ | 20 | | 441 461 | | 474 | | | 0.0 |
| 15 | 16 | S-8 | 14' - 16' | 36 | 1.7-ft. | 15.3 | Gray cmf SAND, some cmf subrounded to angular Gravel, saturated, no odors. | |
| 16 | 12 | | | | | | Bottom of Boring @ 16.0-ft. BGS | 0.0 |
| <u> </u> | 12 | 1 | LEOEND | 1 | 1 | NO | | |
| | | | <u>LEGEND</u> | | | INO | TES: Native soil encountered between 2.2 & 4.0-ft. BGS | |
| | S-SP | LIT SF | OON SOIL | SAMPLE | | | | |

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING # BH-3

300 STATE STREET, ROCHESTER, NEW YORK **ENVIRONMENTAL ENGINEERING CONSULTANTS** **PROJECT**

Remedial Investigation Proposed Port Marina: Port of Rochester

Rochester, New York

DATE

BORING SHEET

1 OF 2 206377 Phase 2a

BH-4

REMARKS

JOB#

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper) LABELLA REPRESENTATIVE:

BORING LOCATION

GROUND SURFACE ELEVATION

START DATE 29-Aug-06

END DATE

WATER LEVEL DATA

TIME WATER CASING

DATUM

29-Aug-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| | | | MPLING ME | | • | spoon v | v/140# Hammer | | | | | | | |
|-------------|-----------------|--|-----------|--------------|----------|--------------|--|---|----------|------------|--------------|-------|-----------------|-------------|
| | K DRILI | LING N | METHOD | Not Applicat | ble | | | | | | | | | |
| D E P | SAMPLE | | | | | DEPTH (Feet) | SAMPLE DESCRIPTION | | | | | | PID READINGS | N O T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | EPTH | | | | | | | | E S |
| H | / 6" | (FT.) /RQD(%) (FEET) $\overline{\Box}$ | | | | | | | | | 3 | | | |
| | 39 | | 0' - 2' | 24 | 1.5-ft. | 0.0' | Asphalt | LE MATERIA | <u> </u> | | | | 0.0 | |
| 1 | 14 10 | S-1 | | | | 0.0 | Gray cmf angular GRAVEL and cmf SAND, moist, no odors. | | | | | | | |
| | | | | | | | | rown cmf SAND, little(-) mf ⁽⁺⁾ subrounded to subangular Gravel, trace | | | | | 0.0 | |
| 2 | 7 | | | | | | • | | | | | | | |
| | 7 7 6 S-2 | | 2' - 4' | 13 | 1.5-ft. | 1.3' | Silt & Clay, moist to damp, no odor Black cm ⁽⁺⁾ f SAND (Foundry Sand) | | round | nd to cube | ngular Gr | ovol | 0.0 | |
| 3 | | S-2 | | | | | | , trace i subi | Tourius | eu io sube | ingular Gr | avei, | | |
| | 7 | | | | | | moist to damp, no odors. Mixed I acustrine (Rea | ch) & Alliu | ıvial / | Deltaic) | Denosite | 2 | 0.0 | |
| 4 | 12 | | | | | 2.0' | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Brown mf ⁽⁺⁾ SAND, trace(+) mf subrounded Gravel, damp, no odors. | | | | | | | |
| | 16 | | | | | 4.0' | WOOD (No saw marks or creosote | | 3 VOI, U | amp, no c | ,aois. | | 0.0 | |
| 5 | 6 | S-3 | 4' - 6' | 22 | 0.8-ft. | 4.0 | Gray mf SAND, wet, no odors. | | | | | | | |
| | - | | | | | 4.7 | Gray IIII SAND, wet, no odors. | | | | | | | |
| 6 | 5 | | | | | 6.0' | As above, wet, no odors. | | | | | | | |
| | - | | | | | 6.3 | WOOD (No saw marks or creosote | odor) | | | | | 0.0 | |
| 7 | 20 | S-4 | 6' - 8' | 51 | 1.6-ft. | 7.5' | ray mf SAND, wet, no odors. | | | | | | | |
| | | 1 | | | | 7.5 | Gray mi SAND, wet, no odors. | | | | | | 0.0 | |
| 8 | 19 | | | | | 8.0' | Gray mf ⁽⁺⁾ SAND, little cmf subroun | ded Gravel | eatur | ated no o | dore | | | |
| | | 1 | | | | 0.0 | Grading To | idea Olavoi, | Jatur | atou, no o | u015. | | 0.0 | |
| 9 | 7 | S-5 | 8' - 10' | 18 | 1.0-ft. | | Gray m ⁽⁺⁾ f SAND, saturated, no odors. | | | | | | | |
| | 10 | 1 | | | | | Saturated, no odd | Jis. | | | | | | |
| 10 | 2 | | | | | 10.0' | As above, saturated, no odors. | | | | | | | 1 |
| | 3 | - | | | | 10.0 | Grading To | | | | | | 0.0 | |
| 11 | 10 | S-6 | 10' - 12' | 13 | 0.8-ft. | | Gray mf ⁽⁺⁾ SAND, saturated, no ode | nre | | | | | | |
| | 7 | | | | | | Gray III GAND, Saturated, 110 out | J13., | | | | | | |
| 12 | 16 | | | | | 12.0' | Gray & maroon cmf subrounded to | eubangular | CDAY | /El som/ | v(+) cmf S | and | | 1 |
| | 16 | | | | | 12.0 | saturated, no odors. | Subangulai | GIVA | LL, SUITE | (') GIII G | anu, | 0.0 | |
| 13 | 19 | S-7 | 12' - 14' | 35 | 1.3-ft. | 12.6' | Gray mf ⁽⁺⁾ SAND, trace f subrounde | ed Gravel e | aturat | ad no ode | vre | | İ | |
| | 25 | 1 | | | | | Joray IIII OAND, Hace I subfound | ou Olavel, S | aturati | Ja, no oat | ,, J. | | 0.0 | |
| 14 | 13 | | | | | 14.01 | No Recovery | | | | | | Not | 1 |
| | | 1 | | | | 14.0 | INO NECOVERY | | | | | | Available | |
| 15 | 19 7 | S-8 | 14' - 16' | 26 | 0.0-ft. | | | | | | | | | |
| 1.40 | - | | | | | | | | | | | | | |
| 16 | 1 2 | 1 | I | I | ı | 1 | I | | | | | | 1 | 1 |

LEGEND

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

NOTES: Native soil encountered between 3.5 & 4.0-ft. BGS

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

BH-4

PROJECT Remedial Investigation

DATE

Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET JOB#

CHKD. BY:

2 OF 2 206377-2a

BH-4

REMARKS

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER Kevin Bush (Driller) & James Smith (Helper) **GROUND SURFACE ELEVATION**

DATUM 29-Aug-06

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 29-Aug-06 END DATE

WATER LEVEL DATA

TIME WATER CASING

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

| | | | | | | эроон и | 1/ 140# Hallimei | | | | | + | | | |
|--------|---------|-------|-----------|------------|----------|--------------|------------------------------|-------------|---------|------------|-------------|-------|-----|----------|-----|
| | I DRILL | ING N | ETHOD | Not Applic | able | | | | l | | | | • | | N |
| D E | | | S | AMPLE | | et) | SA | AMPLE DE | SCRIE | PTION | | | | PID | 0 |
| P | | | | 7 (17)17 | | DEPTH (Feet) | . , | | | | | | | READINGS | i i |
| | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | PTF | | | | | | | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | DE | | | | | | | | | S |
| | WOH | | | | | | Mixed Lacustrine (| | | | | | | 0.0 | |
| 17 | 1 | S-9 | 16' - 18' | 2 | 0.9-ft. | 16.0' | Gray SILT & CLAY to CLAY 8 | & SILI (Inc | a. ~ 5% | Peat), sat | turated, no | o oad | ors | | |
| | 2 | | | | | | | | | | | | | 0.0 | |
| 18 | 1 | | | | | 18.0' | As above with ~3% Peat, satu | urated, no | odors. | | | | | 0.0 | 1 |
| 19 | 1 | C 10 | 18' - 20' | 3 | 1.0-ft. | | | , | | | | | | 0.0 | |
| 19 | 2 | 3-10 | 16 - 20 | 3 | 1.0-11. | | | | | | | | | | |
| 20 | 2 | | | | | | | | | | | | | | - |
| | | | | | | | Botton | n of Boring | @ 20 | .0-ft. BGS | | | | | |
| 21 | | | | | | | | | | | | | | | |
| | | : | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | |
| | - | | | | | | | | | | | | | | |
| 24 | 7 | | | | | | | | | | | | | | |
| 0.5 | 8 | | | | | | | | | | | | | | |
| 25 | 9 | | | | | | | | | | | | | | |
| 26 | 88 | | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | | |
| 27 | 13 | | | | | | | | | | | | | | |
| | 14 | | | | | | | | | | | | | | |
| 28 | 2 | | | | | | | | | | | | | | |
| 29 | 8 | | | | | | | | | | | | | | |
| | 12 | | | | | | | | | | | | | | |
| 30 | 16 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 31 | - | | | | | | | | | | | | | | |
| | | | | | <u> </u> | | | | | | | | | | |
| | | | LEGEND | | | NOT | ES: | | | | | | | | |

<u>LEGEND</u>

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT Remedial Investigation Proposed Port Marina: Port of Rochester

Rochester, New York

BORING SHEET

1 OF 1

BH-5

REMARKS

JOB# CHKD. BY: 206377 Phase 2

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION START DATE 29-Aug-06

END DATE

DATE

WATER LEVEL DATA

TIME WATER CASING

DATUM 29-Aug-06

LABELLA REPRESENTATIVE:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

TYPE OF DRILL RIG: AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| ROC | K DRILL | _ING N | METHOD | Not Applical | ble | | | | |
|-----|---------|-------------------|-----------|--------------|----------|--------------|--|----------|---------|
| D | | | | | | _ | | | N |
| Ε | | | SA | MPLE | | eet) | SAMPLE DESCRIPTION | PID | О |
| Ρ | | | | | | I (F | | READINGS | Т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | | | | s |
| | 37 | | | | | | FILL MATERIAL | | |
| | 14 | | | 0.5 | | 0.0' | Asphalt | 0.0 | |
| 1 | 11 | S-1 | 0' - 2' | 25 | 1.5-ft. | 0.3' | Gray cmf angular GRAVEL, some(-) cmf Sand, moist, no odors. | | |
| | 6 | | | | | | FILL MATERIAL CONTAINING SLAG | 1.2 | |
| 2 | 5 | | | | | 0.9' | Brown, gray and white cmf SAND, little(+) mf angular to subrounded Gravel, | | |
| | 7 | | | | | | trace Silt (Incl. Ash w/ Cinders and Slag), moist, no odors. | 0.0 | |
| 3 | 5 | S-2 | 2' - 4' | 12 | 1.8-ft. | | FILL MATERIAL | | |
| | 8 | | | | | 2.0' | Brown mf ⁽⁺⁾ to f SAND, moist, no odors. | 0.0 | |
| 4 | - | | | | | | FILL MATERIAL CONTAINING SLAG | | |
| | | 2 2 52 41 51 4 12 | | | | | Black cmf SAND, little f angular Gravel (Incl. Slag w. trace Cinders and Ash), | 0.0 | |
| 5 | 2 | S-3 | 4' - 6' | 4 | 1.2-ft. | 3.5' | moist to damp, no odors. | | |
| | 2 | | | | | 4.0' | As above, damp, no odors. | | |
| 6 | 5 | | | | , | 7.0 | FILL MATERIAL | | |
| | 6 | | | | | 4.2' | Brown mf ⁽⁺⁾ SAND, damp, no odors. | 0.0 | |
| 7 | 9 | S-4 | 6' - 8' | 15 | 1.1-ft. | 7.2 | Grading To | | |
| | 17 | | | | | 6.0' | Gray mf SAND, wet, no odors. | | |
| 8 | 5 | | | | | 0.0 | Gray mf ⁽⁺⁾ SAND w. Wood (creosote odor) from 6.3 to 6.45-ft., wet to saturated | | |
| | 7 | | | | | | @ ~6.5-ft., no odors. | 0.0 | |
| 9 | 13 | S-5 | 8' - 10' | 20 | 1.3-ft. | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | |
| | 14 | | · | | | 8.0' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 10 | 15 | | | | | | As above, saturated, no odors. | | |
| | 16 | | | | | 10.0 | Grading To | 0.0 | |
| 11 | 18 | S-6 | 10' - 12' | 34 | 1.4-ft. | | Gray f SAND, saturated, no odors. | | |
| | 23 | | | | | 11 2 | Gray mf SAND and mf subrounded to subangular GRAVEL, saturated, no odors. | 0.0 | |
| 12 | 7 | | | | | | Gray mf SAND, trace(-) m subrounded Gravel, saturated, no odors. | | 1 |
| | 7 | | | | | 12.0 | January in Substitute States, Substitute States | 0.0 | |
| 13 | 6 | S-7 | 12' - 14' | 13 | 1.0-ft. | | | | |
| | 4 | | | | | | | | |
| 14 | 8 | | | | | 14.0' | Cray of SAND little/1) and angular to subrounded Crayal contrated no odera | | l |
| | | | | | | 14.0 | Gray mf SAND, little(+) cmf angular to subrounded Gravel, saturated, no odors Grading To | 0.0 | |
| 15 | 18 | S-8 | 14' - 16' | 24 | 1.1-ft. | | Gray cm ⁽⁺⁾ f SAND, saturated, no odors. | | |
| 4.0 | 6 | | | | | | | | |
| 16 | 11 | | LEGEND | 1 , | | NOT | Bottom of Boring @ 16.0-ft. BGS | | <u></u> |
| | | | LEGEND | | | INOI | ΓES: Native soil encountered between 7.1 & 8.0-ft. BGS | | |

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT

Rochester, New York

Remedial Investigation

Proposed Port Marina: Port of Rochester

BORING SHEET

1 OF 2

BH-6

JOB# CHKD. BY:

206377 Phase 2a

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

C. Stiles

START DATE 31-Aug-06 END DATE

31-Aug-06 WATER LEVEL DATA

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

LABELLA REPRESENTATIVE:

2" x 2' Split-spoon w/140# Hammer

TIME WATER CASING REMARKS DATE

| ROC | K DRILI | ING N | METHOD | Not Applical | ble | | | | |
|-----|---------|-------|---------------|--------------|----------|--------------|--|----------|---|
| D | | | | | | _ | | | Ν |
| E | | | SAI | MPLE | | eet) | SAMPLE DESCRIPTION | PID | 0 |
| P | | | | | | <u>r</u>) + | | READINGS | Т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | Е |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | DE | | | s |
| | 30 | | | | | | FILL MATERIAL | 0.0 | |
| 1 | 14 | S-1 | 0' - 2' | 24 | 1.5-ft. | 0.0' | Asphalt | 0.0 | |
| ' | 10 | 3-1 | 0-2 | 24 | 1.5-11. | 0.5' | Gray c ⁽⁺⁾ mf SAND and mf angular GRAVEL, moist, no odors. | 0.0 | |
| 2 | 7 | | | | | | FILL MATERIAL CONTAINING SLAG | 0.0 | |
| - | 5 | | | | | 1.0' | Black to brown cmf SAND, trace(+) f angular Gravel (Incl. Slag & Cinders), moist, | 0.0 | |
| 3 | 6. | S-2 | 2' - 4' | 12 | 1.8-ft. | | no odors. | 0.0 | |
| " | 6 | 0-2 | 2 - 4 | 12 | 1.0-11. | | FILL MATERIAL | 0.0 | |
| 4 | 8 | | | | | 1.4' | Brown mf ⁽⁺⁾ SAND, moist, no odors. | 0.0 | |
| - | 4 | | | | | 2.0' | Brown f SAND, trace(-) to trace Silt, moist to wet, no odors. | 0.0 | |
| 5 | 5 | S-3 | 4' - 6' | 12 | 0.3-ft. | 4.0' | Gray f SAND, trace Silt, saturated, no odors. | 0.0 | |
| | 7 | | -7 0 | 12 | 0.016. | 4.2' | Wood with very slight creosote odor. | | |
| 6 | 4 | | | | | | | | |
| " | 3 | | * | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.0 | |
| 7 | 3 | S-4 | 6' - 8' | 7 | 0.8-ft. | 6.0' | Gray mf ⁽⁺⁾ SAND, trace Silt (Incl. Wood (No noticeable creosote odor. saturated, | | |
| ' | 4 | | 0 0 | • | 0.0 16. | | no odors. | | |
| 8 | 10 | | # - L | | | | | | |
| | 10 | | | | | 8.0' | Gray mf SAND, some(+) mf subangular to subrounded Gravel, saturated, no | 0.0 | |
| . 9 | 18 | S-5 | 8' - 10' | 35 | 0.9-ft. | | odors. | | |
| | 17 | | 0 .0 | | 0.0 16. | | | | |
| 10 | 16 | | | | | | · | | |
| | 6 | | | | | 10.0' | Gray mf ⁽⁺⁾ SAND with interval of Gray mf SAND and mf subrounded Gravel from | 0.0 | |
| 11 | 11 | S-6 | 10' - 12' | 26 | 1.2-ft. | | 10.8 to 10.9-ft. BGS, saturated, no odors. | | |
| ''' | 15 | | | | | | | 0.0 | |
| 12 | 10 | | | | | | | | |
| '- | 7 | | | | | 12.0' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 13 | 14 | S-7 | 12' - 14' | 32 | 1.1-ft. | 12.8' | Gray cmf SAND some(+) cmf subrounded Gravel, saturated, no odors. | | |
| . | 18 | , | | 02 | | | | | |
| 14 | 15 | | | | | | | | 1 |
| ' | 7 | | | | | 1 | As above, saturated, no odors. | 0.0 | |
| 15 | 9 | S-8 | 14' - 16' | 13 | 0.4-ft. | 14.2' | Gray SILT & CLAY (Incl. ~30% Peat), saturated, no odors. | | |
| ' | 4 | | 1-7 10 | ' | U.T.IG | | | | |
| 16 | 2 | | | | | | | <u></u> | |
| | | | <u>LEGEND</u> | | | NO | TES: Native soil encountered between 4.3 & 6.0-ft. BGS | | |

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

Monitoring well MW-BH6 installed within borehole BH-6.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING#

PROJECT

Remedial Investigation Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET

BH-6 2 OF 2

REMARKS

JOB# CHKD. BY: 206377-2a

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER

Kevin Bush (Driller) & James Smith (Helper)

C. Stiles

GROUND SURFACE ELEVATION

DATE

DATUM

START DATE

END DATE 29-Aug-06

29-Aug-06

WATER LEVEL DATA TIME WATER CASING

TYPE OF DRILL RIG:

LABELLA REPRESENTATIVE:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

| AUGE | K SIZE | AND | TYPE | 4.25-Inch | ID | | | | |
|------|---------|-------|-----------|------------|----------------|--------------|--|----------|---|
| OVEF | RBURDE | EN SA | MPLING N | METHOD | 2" x 2' Split- | spoon v | ı/140# Hammer | | |
| ROCK | C DRILL | ING M | IETHOD | Not Applic | cable | | | | |
| D | | | | | | | | | N |
| E | | | S | SAMPLE | | eet | SAMPLE DESCRIPTION | PID | 0 |
| P | | | | r | | E E | | READINGS | T |
| T | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | <u> </u> | | | S |
| | 1 | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.0 | |
| 17 | 1 | S-9 | 16' - 18' | 2 | 0.4-ft. | 16.0' | Gray SILT & CLAY (Incl. ~15% Peat), saturated, no odors. | | |
| | 1 | | | | | | | | |
| 18 | 2 | | | | | | | | |
| | 1 | | | | | 18.0' | Gray SILT & CLAY (Incl. ~10% Peat), saturated, no odors. | 0.0 | |
| 19 | 1 | S-10 | 18' - 20' | 3 | 0.8-ft. | | | | |
| | 2 | | | | | | | | |
| 20 | 1 | | | | | | | | - |
| | | | | | | | Bottom of Boring @ 20.0-ft. BGS | | |
| 21 | | | | | | | | | |
| | | | | | | | | | |
| 22 | | | | | | | | | |
| | | | | | | | | | |
| 23 | | | | | | | · | | |
| | | | | | | | ' | | |
| 24 | | | | | | | | | |
| | 7 | | | | | | | | |
| 25 | 8 | | | | | | | | |
| | 9 | | | | | | | | |
| 26 | 8 | | | | | | | | |
| 1 | 8 | | | | | | | | |

LEGEND

NOTES:

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

8

13 14

2

12 16

27

28

29

30

31

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

DATE

BORING SHEET

BS-1 1 OF 1

JOB# CHKD. BY:

206377-2a

REMARKS

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper) LABELLA REPRESENTATIVE:

GROUND SURFACE ELEVATION START DATE 01-Sep-06

BORING LOCATION

END DATE

DATUM 01-Sep-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

WATER LEVEL DATA

TIME WATER CASING

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| ROC | K DRILL | ING N | 1ETHOD | Not Applicat | ole | | | | |
|-----|---------|------------------|-----------|--------------|----------|--------------|---|----------|---|
| D | | | | | | | | | N |
| Ε | | | SAI | MPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID | 0 |
| Р | | | | | | ₹ (F | | READINGS | T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | P | | | E |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | 吕 | | | s |
| | 37 | | | | | | Fill Material | 0.0 | |
| 1 | 14 | S-1 | 0' - 2' | 36 | 1.4-ft. | 0.0' | Asphalt | 0.0 | |
| ' | 22 | 3-1 | 0 - 2 | 30 | 1.4-16. | 0.5' | Gray cmf SAND and mf angular GRAVEL, moist, no odors. | 0.0 | |
| _ | 12 | | | | | 1.0' | Gray mf SAND, little mf subangular Gravel, trace(+) Silt, moist, no odors. | 0.0 |] |
| 2 | 7 | | • | | | | Fill Material Containing Slag | 0.0 | |
| 3 | 13 | S-2 | 2' - 4' | 23 | 1.5-ft. | 2.0' | Brown to tan mf SAND, trace(+) mf angular Gravel (Incl. blue-green Slag), moist, | 0.0 | |
| " | 10 | 3-2 | 2 - 4 | 23 | 1.5-11. | | no odors. | 0.0 | |
| 4 | 6 | | | | | 2.8' | Dark brown to black cmf ⁽⁺⁾ SAND, little mf ⁽⁺⁾ angular to subangular Gravel (Incl. | 0.0 |] |
| 4 | 2 | | | | | | Cinders & Slag), moist to damp, very slight weathered petroleum odor. | 0.0 | |
| 5 | 3 | S-3 | 4' - 6' | 12 | 0.9-ft. | | <u>Fill Material</u> | 0.0 | |
| " | 9 | 3-3 | 4-0 | 12 | 0.9-11. | 4.0' | Gray mf SAND, trace f Gravel, trace Silt, piece of wood with creosote odor, | | |
| 6 | 7 | | | | | | damp, very slight weathered petroleum odor. | | |
| " | 10 | | | | | 4.6' | Gray Clayey SILT, damp, no odors. | 0.0 | |
| 7 | 9 | S-4 | 6' - 8' | 21 | 1.3-ft. | | Fill Material Containing Slag | 0.0 | |
| ' | 12 | 3-4 | 0 - 0 | 21 | 1.5-11. | 6.0' | Gray Clayey SILT, little(+) mf Gravel (Incl. Slag), wet, no odors. | 0.0 | |
| 8 | 12 | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | . 0.0 | |
| ° | 23 | | | | | 6.5' | Gray mf SAND, saturated, no odors. | 0.0 | |
| 9 | 30 | S-5 | 8' - 10' | 54 | 1.0-ft. | | Grading To | 0.0 | |
| " | 24 | 3-3 | 0 - 10 | 34 | 1.0-10. | | Gray cm ⁽⁺⁾ f SAND, saturated, no odors. | | |
| 10 | 27 | | | | | 8.0' | Gray cm ⁽⁺⁾ f SAND, some(-) cmf angular to subrounded Gravel, satutrated, H ₂ S | | |
| '0 | 7 | | , | | | | odor. | 0.0 | |
| 11 | 9 | S-6 | 10' - 12' | 16 | 1.2-ft. | 10.0' | Gray mf SAND, saturated, no odors. | | |
| '' | 7 | 0-0 | 10 - 12 | '0 | 1.2.10. | | Grading To | 0.0 | |
| 12 | 6 | | | | | | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | | |
| '2 | 11 | | | | | 12.0' | Gray mf SAND, some(-) c subrounded to subangular Gravel, saturated, no odors. | 0.0 | |
| 13 | 27 | S-7 | 12' - 14' | 47 | 1.0-ft. | | | | |
| '3 | 20 | J ⁻ , | 12 - 17 | | 1.0 10. | | | | |
| 14 | 17 | | | | | | Gray mf ⁺⁾ SAND w/ 1.8-in. of Gray SILT @ 12.9-ft. BGS, saturated, no odors. | | |
| '* | 10 | | | | | 14.0' | As above, saturated, no odors. | 0.0 | |
| 15 | 26 | S-8 | 14' - 16' | 46 | 0.3-ft. | | | | |
| " | 20 | | 1-7-10 | - | 0.0-10. | | | | |
| 16 | 17 | | | | | | | | |
| | | | LEGEND | | | NO. | FES: Native soil encountered @ 6.5-ft. BGS | | |

<u>LEGEND</u>

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

NOTES: Native soil encountered @ 6.5-ft. BGS

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING # B\$-1

PROJECT Remedial Investigation Proposed Port Marina: Port of Rochester Rochester, New York

SHEET JOB#

1 OF 1 206377-2a

BS-2

CHKD. BY:

BORING

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper) LABELLA REPRESENTATIVE:

BORING LOCATION

START DATE

GROUND SURFACE ELEVATION

01-Sep-06

END DATE

DATUM 01-Sep-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| | WATE | R LEVEL [| DATA | | | | |
|------|----------|-----------|--------|---|---------|---|---|
| DATE | TIME | WATER | CASING | F | REMARKS | 3 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | • |
| | <u> </u> | | | | | | - |

| D E | | | SAI | MPLE | - | eet) | SAMPLE DESCRIPTION | PID | N O |
|--------|----------|-----|---------------|---------|-------------|--------------|--|------------|--------|
| P | | | | | | Ä, | | READINGS | т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | ЭO | | | s |
| | 2 | - | | | | 0.0' | Topsoil Dark brown f SAND, trace f angular to subrounded Gravel, trace(-) Silt, organics | 0.0 | |
| 1 | 4 | S-1 | 0' ~ 2' | 6 | 1.6-ft. | 0.0 | present (roots, root traces, humus, etc.), moist, no odors. | 0.0 | |
| 2 | 17 11 | | | | | 0.5' | Fill Material Deep brown mf ⁽⁺⁾ SAND, trace f subangular Gravel (Mostly Foundry Sand), moist, | 0.0 | |
| 3 | 13 16 | S-2 | 2' - 4' | 29 | 1.3-ft. | 1.2' | no odors. Asphalt. | | |
| 4 | 14 | | | | | 1.2 | Fill Material Containing Slag | 0.0 | |
| 5 | 9 7 | S-3 | 4' - 6' | 4.4 | 0.8-ft. | 2.0' | Gray, blue-green and brown cmf SAND, some mf angular Gravel (includes Cinders, Ash & Slag), moist, no odors. | 0.0 | |
| 5 | 7 | 5-3 | 4 - 0 | 14 | U.O-II. | 2.4' | Fill Material Gray cmf angular to subangular GRAVEL, some(-) cmf Sand (Mostly Concrete), | | |
| 6 | 7 | | | | | 2.4 | moist, no odors. | | |
| 7 | 5 | S-4 | 6' - 8' | 15 | 1.4-ft. | 3.2' | Brown and gray cmf ⁽⁺⁾ SAND, little(+) mf angular Gravel (incl. Concrete & Cinders) | 0.0 | |
| 8 | 10 11 | | | | | | moist, no odors. Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.0 | |
| ° | 4 | | | | | 4.3' | Gray f-vf SAND and SILT, trace(+) mf subrounded Gravel, wet, no odors. | Not | |
| 9 | 5 | S-5 | 8' - 10' | 9 | 0.0-ft. | 6.0' | As above with approximately 2% or less peat. | Applicable | |
| | 4 | | | _ | , , , , , , | 8.0' | No recovery | | |
| 10 | 2 | | | | | | (1) | | |
| | 8 | | | | | 10.0' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | ,0.0 | |
| 11 | 9 | S-6 | 10' - 12' | 19 | 0.7-ft. | | | | |
| | 10 | | | | | | | | |
| 12 | 7 | -+ | | | | 12.0' | | | |
| 13 | 15 | S-7 | 12' - 14' | 35 | 1.4-ft. | | odors. | 0.0 | |
| | 20 31 | | | | | 12.9' | Gray mf ⁽⁺⁾ SAND w/ 1.8-in. of Gray SILT @ 12.9-ft. BGS, saturated, no odors. | 0.0 | |
| 14 | 15 | | | | | 14.0' | Gray cmf angular to subrounded GRAVEL and cmf SAND, saturated, no odors. | 0.0 | |
| 15 | 20 | S-8 | 14' - 16' | 43 | 1.5-ft. | | | 0.0 | |
| 16 | 12 | | | | | | | | |
| | | | <u>LEGEND</u> | | | TON | FES: Native soil encountered @ 4.3-ft. BGS | | |

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING#

PROJECT Remedial Investigation Proposed Port Marina: Port of Rochester Rochester, New York

BS-3 **BORING** 1 OF 1 SHEET JOB#

206377-2a

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper) LABELLA REPRESENTATIVE:

BORING LOCATION

START DATE

GROUND SURFACE ELEVATION

29-Aug-06

END DATE

DATUM 30-Aug-06

CHKD. BY:

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

ROCK DRILLING METHOD

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

Not Applicable

WATER LEVEL DATA DATE TIME WATER CASING REMARKS

| D E P | | | SAI | MPLE | | (Feet) | SAMPLE DESCRIPTION | PID READINGS | N O T |
|-------------|---------------|--------|----------------|--------------------|--------------------|---------------|---|-----------------|-------------|
| Т Н | BLOWS | NO. | DEPTH (FT.) | N-VALUE /RQD(%) | RECOVERY (FEET) | DEPTH (Feet) | | 1.2,12,1100 | E S |
| 1 | 5 31 12 | S-1 | 0' - 2' | 43 | 1.7-ft. | 0.0' | Topsoil Dark brown f SAND, little(-) SILT, trace f subrounded Gravel, organics present (roots, root traces, humus, etc.), moist, no odors. | 0.0 | |
| 2 | 7 5 | | | | | 0.5' | Fill Material Asphalt. | 0.0 | |
| 3 | 6 | S-2 | 2' - 4' | 12 | 1.8-ft. | 0.8' 1.2' | Gray cmf SAND, some(+) mf ⁽⁺⁾ angular Gravel, moist, no odors. Brown cmf ⁽⁺⁾ SAND, little mf angular Gravel, moist, naphthalene odor. | 0.0 | |
| 4 | 5 | | | | | 2.0' | Black f SAND, moist to damp, very slight weathered petroleum odors. | 0.0 | |
| 5 | 4 | S-3 | 4' - 6' | 11 | 1.4-ft. | 2.4' | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray vf SAND, some(-) Silt, damp, no odors. | 0.0 | |
| 6 | 7 14 | | | | | 4.0' 4.75' | As above with 1/4-in. Peat layer @ 4.7-ft., BGS, wet, no odors. Gray cm ⁽⁺⁾ f SAND, little(-) to some mf ⁽⁺⁾ subrounded Gravel, wet, no odors. | 0.0 | |
| | 8 14 | S-4 | 01 01 | 20 | 474 | 6.0' 6.4' | As above, wet, no odors. Gray mf SAND, wet to saturated @ ~6.8-ft., no odors, | 0.0 | |
| 7 | 16 18 | 5-4 | 6' - 8' | 30 | 1.7-ft. | 6.9' 8.0' | Gray to dark gray cmf SAND and m(+)f subrounded GRAVEL, saturated, no odor As above, saturated, no odors. | 0.0 | |
| 8 | 10 35 | S-5 | 8' - 10' | 58 | 1.6-ft. | 8.1' 8.2' | Brown Clayey SILT, trace f Sand (Incl. ~20% Peat), saturated, no odors. Gray mf to mf(+) SAND with Red sandstone fragments from 8.7 to 9.1-ft. BGS, | 0.0 | |
| 10 | 23 19 | | | | 1.0 16. | 10.0' | saturated, no odors. As above with layers containing some mf(+) subrounded Gravel from 11.0 to | 0.0 | |
| | 4 9 | 0.0 | 401 401 | 00 | 105 | | 11.1-ft. and 11.3 to 11.4-ft., saturated, no odors. 11.1-ft. and 11.3 to 11.4-ft., saturated, no odors. | 0.0 | |
| 11 | 17 24 | S-6 | 10' - 12' | 26 | 1.6-ft. | | | 0.0 | |
| 12 | 10 | | | | | | Gray mf ⁽⁺⁾ SAND w/ 1.8-in. of Gray SILT @ 12.9-ft. BGS, saturated, no odors. Gray f SAND, saturated, no odors. | 0.0 | |
| 13 | 18 | S-7 | 12' - 14' | 35 | 1.4-ft. | 13.3 | John J., Saturated, 110 odors. | 0.0 | |
| 14 | 19 | | | | | 14.0' | Gray mf SAND, little m ⁽⁺⁾ f subrounded to angular Gravel, saturated, no odors. | 0.0 | |
| 15 | 17 25 | S-8 | 14' - 16' | 42 | 1.3-ft. | | | 0.0 | |
| 16 | 37 | LIT OF | LEGEND | CAMPLE | | NOT | I FES: Native soil encountered @ 2.4-ft. BGS | 1 | |

S - SPLIT SPOON SOIL SAMPLE

- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

MBELLA

300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT
Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York BORING SHEET

1 OF 2 206377-2a

BS-4

JOB # CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper)
LABELLA REPRESENTATIVE: C. Stiles

BORING LOCATION

START DATE

GROUND SURFACE ELEVATION

29-Aug-06

END DATE

DATUM 29-Aug-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| | | WATE | R LEVEL I | DAŢA | | | N |
|----|----------|--------|-----------|--------|---|---------|----|
| | DATE | TIME | WATER | CASING | F | REMARKS | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | N |
| ИP | LE DESCE | RIPTIO | N | | | PID | 10 |

| D E P | | | SA | MPLE | | (Feet) | SAMPLE DESCRIPTION | PID READINGS | N O T |
|-------------|----------------------|-----|----------------------|--------------------|--------------------|------------------------------|--|-----------------|-------------|
| Т | BLOWS | NO. | DEPTH (FT.) | N-VALUE /RQD(%) | RECOVERY (FEET) | DEPTH (Feet) | | 112/12/13/1 | E |
| 1 | 49 16 10 4 | S-1 | 0' - 2' | 26 | 1.4-ft. | 0.0' 0.5' | Fill Material Asphalt Gray cmf angular to subangular GRAVEL, some(+) cmf Sand w/geotextile fabric @ 1.0-ft., moist, no odors. | 0.2 1.5 | |
| 3 | 2 4 4 | S-2 | 2' - 4' | 8 | 1.3-ft. | 1.0' 1.3' 2.0' | Black cmf SAND, some f Gravel (Cinders), moist, very slight unknown odor. Tan cmf SAND (Refractory Sand), moist, very slight weathered petroleum odor. Black f SAND, moist to damp, very slight weathered petroleum odor. | 0.0 | |
| 5 | 2 2 3 7 | S-3 | 4' - 6' | 10 | 1.0-ft. | 2.6' | Dark brown to black cmf SAND, little mf angular Gravel, trace(-) Silt (Incl. Cinders and Ash), damp, very slight weathered petroleum odor. Dark brown mf SAND, damp, no odors. Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | |
| 7 | 11 18 18 18 | S-4 | 6' - 8' | 36 | 1.4-ft. | 4.0' 4.4' 4.8' 6.0' | Gray mf SAND, trace Silt & Clay, damp to wet, no odors. Tan mf SAND, trace f subrounded Gravel, wet, no odors. Tan mf SAND, some(-) mf subrounded Gravel, wet, no odors. Brownish-gray to reddish-brown cmf SAND, some cmf subrounded to sub- | 0.0 | |
| 9 | 8 46 56 42 | S-5 | 8' - 10' | 102 | 0.2-ft. | 8.0' | angular Gravel, saturated, no odors. Gray mf ⁽⁺⁾ SAND, some c subangular Gravel, saturated, no odors. | 0.0 | |
| 10 | 8 44 43 31 | S-6 | 10' - 12' | 87 | 0.7-ft. | 10.0' 10.5' | Gray cmf SAND, some cmf angular to subrounded Gravel, saturated, no odors. Gray f SAND, saturated, no odors. | 0.0 | |
| 13 | 12 15 13 | S-7 | 12' - 14' | 28 | 1.1-ft. | | Gray cm ⁽⁺⁾ f SAND and cmf subrounded to subangular GRAVEL, saturated, no odors. Gray mf(+) SAND, saturated, no odors. | 0.0 | |
| 15 | WOH 2 1 2 | S-8 | 14' - 16' | 3 | 1.1-ft. | | As above, saturated, no odors. Gray to brown SILT & CLAY (Incl. ~15 to 20% Peat), saturated, no odors. | 0.0 | |
| | | | LEGEND OON SOIL S | SAMPLE | | NOT | ES: Native soil encountered between 3.3 and 4.0-ft. BGS WOH = Weight of Hammer | | |

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT Remedial Investigation

Proposed Port Marina: Port of Rochester

BORING SHEET JOB#

CHKD. BY:

2 OF 2 206377-2a

BS-4

Rochester, New York

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER Kevin Bush (Driller) & James Smith (Helper) **GROUND SURFACE ELEVATION**

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE

29-Aug-06

END DATE

29-Aug-06 WATER LEVEL DATA

| TYF | E OF D | RILL R | IG: | Brainhard | Kilmar BK-8 | 1 Truck | mounted Rotary Drill Rig | DATE | TIME | WATER | CASING | R | EMARKS | |
|------|------------|---------------|-----------|------------|----------------|--------------|-------------------------------|-------------|----------|-------------|-------------|-------------|----------|-------------|
| AUG | SER SIZ | SIZE AND TYPE | | | | | | | | | · | | | |
| OVI | ERBURI | DEN SA | MPLING N | /ETHOD | 2" x 2' Split- | spoon v | //140# Hammer | | | | | | | |
| RO | CK DRIL | LING N | /ETHOD | Not Applic | able | | | | | | | | | |
| D | | | | | | | | | | | | | | N |
| E | | | 5 | SAMPLE | | eet | S | AMPLE DE | ESCRIF | PTION | | | PID | 0 |
| Р | | | | | | L + | | | | | | | READINGS | Т |
| T | BLOW | S NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | | | | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | H | | | | | | | | S |
| | WOH | 1 | | | | | Mixed Lacustrine | (Beach) a | & Allu | vial (Delta | iic) Depo | <u>sits</u> | 0.0 | |
| 1 | , WOH | S-9 | 16' - 18' | 1 | 1.2-ft. | 16.0' | Brownish-gray to gray Silty C | LAY (Incl. | ~ 2 to 4 | 4% Peat), s | aturated, n | o | 0.0 | |
| ' | 1 | | 10 10 | ' | 1.2 10 | | odors. | | | | | | | |
| 1 18 | 2 | | | | | | | | | | | | | |
| ' | ´ | | | | | | Bottor | m of Boring | g @ 18 | .0-ft. BGS | | | | |
| 19 | , L | 1 | | | | | | | | | | | | |
| | | _ | | | | | | | | | | | | $ \cdot $ |
| 20 | , L | _ | | | | | | | | | | | | |
| _ | <u> </u> | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| - | ` <u> </u> | _ | | | | | | | | | | | | |
| 2: | , 📖 | _ | | | | | | | | | | | | |
| - | | | | | | | | | | | | | | |
| 2 | 3 L | | | | | | | | | | | | | |
| ~ | | _ | | | | | | | | | | | | |

LEGEND

NOTES:

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

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BORING #

PROJECT Remedial Investigation

Proposed Port Marina: Port of Rochester

DATE

BORING SHEET

BS-5 1 OF 2

JOB# 206377-2a

Rochester, New York **BORING LOCATION**

GROUND SURFACE ELEVATION

DATUM

CHKD. BY:

DRILLER Kevin Bush (Driller) & James Smith (Helper) LABELLA REPRESENTATIVE:

START DATE 01-Sep-06

END DATE

01-Sep-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

WATER LEVEL DATA

TIME WATER CASING REMARKS

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

CONTRACTOR: Nothnagle Drilling Co.

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| RUC | N DRILL | JING I | IE I HOD | Not Applicat | bie | | | | |
|-----|---------------|--------|---------------|--------------|----------|--------------|---|----------|--------|
| D | | | | | | t) | | | N |
| E | | | SA | MPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID | 0 |
| P | | | | | T |) HI | · | READINGS | T |
| T | BLOWS / 6" | NO. | DEPTH | N-VALUE | RECOVERY | EP. | | | E S |
| Н | 43 | | (FT.) | /RQD(%) | (FEET) | | Fill Material | | 3 |
| | 13 | | | | | 0.0' | Asphalt | 0.0 | |
| 1 | 13 | S-1 | 0' - 2' | 26 | 1.8-ft. | 0.5' | Gray mf angular GRAVEL and mf SAND , moist, no odors w/geotextile fabric | | |
| _ | 10 | | | | | 0.0 | at 1.0-feet. | 0.0 | |
| 2 | 10 | | | | | | Fill Material Containing Slag | 0.0 | |
| 3 | 14 | S-2 | 2' - 4' | 35 | 0.7-ft. | 1.0' | Brown and gray cmf SAND, some mf angular Gravel (Incl. Slag w/ trace Cinders), | | |
| ا ا | 21 | 3-2 | 2 - 4 | 33 | 0.7-11. | | moist, no odors. | | |
| 4 | 11 | | | | | 2.0' | Deep brown and gray cm ⁽⁺⁾ f SAND, some(+) mf angular to subangular Gravel | | |
| | 4 | | | | | | (Incl. Foundry Sand w/ Slag & trace Ash), moist to damp, no odors. | 0.0 | |
| 5 | 8 | S-3 | 4' - 6' | 18 | 0.2-ft. | 4.0' | Brown mf ⁽⁺⁾ SAND (Mostly Foundry Sand w/trace Ash & Slag), damp, no odors | | |
| | 10 | | | | | 4.7' | Grayish-brown cmf SAND, trace(+) f angular Gravel (Incl. Slag & Ash), damp, no | 0.0 | |
| 6 | 10 | | | | | | odors. | | |
| | 12 | | | | | 6.0' | Bluish-gray cmf angular GRAVEL, some(-) cmf Sand (All Slag), damp, saturated, | 0.0 | |
| 7 | 10 | S-4 | 6' - 8' | 16 | 2.0-ft. | | no odors. | | |
| | 10 | | | | | | | | |
| 8 | 2 | | | , | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | |
| | 4 | | | | | 8.0' | Brownish-gray m ⁽⁺⁾ f subrounded to subangular GRAVEL and cmf SAND, | 0.0 | |
| 9 | 2 | S-5 | 8' - 10' | 6 | 0.9-ft. | 0.0 | saturated, no odors. | | |
| 40 | 6 | | | | | | | | |
| 10 | 1 | | | | | 10.0' | Gray mf SAND, saturated, no odors. | 0.0 | |
| 11 | 4 | S-6 | 10' - 12' | 10 | 1.0-ft. | | | 0.0 | |
| 11 | 6 | 3-0 | 10 - 12 | 10 | 1.0-11. | | | 0.0 | |
| 12 | 12 | | | | | | | | |
| '- | 14 | | | | | 12.0' | As above, saturated, no odors. | 0.0 | |
| 13 | 24 | S-7 | 12' - 14' | 38 | 1.0-ft. | 12.2' | Gray cmf subrounded to subangular GRAVEL and cmf SAND, saturated, no odor | | |
| | 14 | | | | | | | 0.0 | |
| 14 | 10 | | | | | | (4) | | |
| | 1 | | | | | 14.0' | | 0.0 | |
| 15 | 4 | S-8 | 14' - 16' | 10 | 1.1-ft. | 14.2' | Gray mf SAND, saturated, no odors. | | |
| 10 | 9 | | | | | | Grading To Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 16 | <u> </u> | | LECEND | | | NO | FES: Native soil encountered between 6.2 and 8.0-ft. BGS | <u> </u> | |
| I | | | <u>LEGEND</u> | | | INOI | E.S. Mative soil efficultiefed between 0.2 and 0.0-it. DGS | | 1 |

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

Monitoring well MW-BS5 installed within borehole BS-5.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET

BS-5 2 OF 2

JOB# CHKD. BY:

206377-2a

REMARKS

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

Kevin Bush (Driller) & James Smith (Helper) DRILLER

GROUND SURFACE ELEVATION START DATE

DATE

WATER CASING

DATUM

TYPE OF DRILL RIG:

LABELLA REPRESENTATIVE:

01-Sep-06

END DATE

TIME

01-Sep-06 WATER LEVEL DATA

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

C. Stiles

ROCK DRILLING METHOD Not Applicable

| ROC | OCK DRILLING METHOD Not Applicable | | | | | | | | | | | | r | , |
|-----|------------------------------------|------|-----------|-----------|----------|--------------|--|-----------|----------|---------------|-----------|------|----------|---|
| D | | | | | | | | | | | | | | N |
| E | | | s | AMPLE | | et) | SA | MPLE DE | SCRIF | PTION | | | PID | 0 |
| P | | | · · | | | DEPTH (Feet) | | | | | | | READINGS | Т |
| Т. | BLOWS | NO. | DEPTH | N-V/ALLIE | RECOVERY | T | | | | | | | | E |
| Н | / 6" | 140. | (FT.) | /RQD(%) | (FEET) |)EP | | | | | | | | s |
| | 3 | | (1.1.) | /1\QD(70) | (1 221) | ш | Mixed Lacustrine (F | Beach) 8 | k Allu | vial (Delt | aic) Depo | sits | | Ť |
| | 2 | | | | | 16 0' | Gray mf ⁽⁺⁾ SAND, saturated, no | | | | | | 0.0 | |
| 17 | 2 | S-9 | 16' - 18' | 4 | 1.1-ft. | | Brown peat, saturated, no odo | | | | | | | |
| | 3 | | | | | | Gray Clayey SILT (Incl. approx | | at) cot | urated no | odoro | | 0.0 | |
| 18 | | | | | | | Gray CLAY & SILT (Incl. appro | | | | | | | |
| | WOH | | | | | 10.0 | Gray CEAT & SIET (IIIG. appic |)X 10% FE | eat), So | aturateu, rit | ouors. | | 0.0 | |
| 19 | 2 | S-10 | 18' - 20' | 4 | 1.3-ft. | | | | | | | | | |
| | 2 | | | | | | • | | | | | | 0.0 | |
| 20 | 2 | | | | | | D # | | 0.00 | 0 % 000 | | | | |
| | <u> </u> | | | | | | Bottom | of Boring | @ 20 | .0-ft. BGS | | | | |
| 21 | | | | | | | , | | | | | | | |
| | | | | | | | , | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 23 | ļ | | | | | | | | | | | | | |
| | | | | | | | | | | | | | . | |
| 24 | | | | | | | | | | | | | | |
| | 7 | | | | | | | | | | | | | |
| 25 | 8 | | | | | | | | | | | | | |
| - | 9 | | | | | | | | | | | | | |
| 26 | 8 | | | | | | | | | | | | | |
| | 8 | | | | | | | | | | | | | |
| 27 | 8 | | | | | | | | | | | | | |
| " | 13 | | | | | | | | | | | | | |
| 28 | 14 | | | | | | | | | | | | | |
| 20 | 2 | | | | | | | | | | | | | |
| 29 | 8 | | | | | | | | | | | | | |
| 29 | 12 | | | | | | | | | | | | | |
| 30 | 16 | | , | | | | | | | | | | | |
| 30 | |] | | | | | | | | | | | | |
| 1 | |] | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| | | 1 | | | | | | | | | | | | |
| | | · | LEGEND | | | TON | FS. | | | | | | | |

<u>LEGEND</u>

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT

Remedial Investigation Proposed Port Marina: Port of Rochester

Rochester, New York

BORING SHEET

BS-6 1 OF 2

JOB# CHKD. BY: 206377-2a

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

START DATE 05-Sep-06 **END DATE**

DATE

05-Sep-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

WATER LEVEL DATA TIME WATER CASING REMARKS

4.25-Inch ID

AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| ROC | K DRILL | ING N | 1ETHOD | Not Applical | ble | | | | |
|-----|---------|-------|-----------|--------------|----------|--------------|---|----------|---|
| D | | | | | | | | | N |
| Ε | | | SAI | MPLE | | eet | SAMPLE DESCRIPTION | PID | 0 |
| Ρ | | | | | | DEPTH (Feet) | · | READINGS | Т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | 出 | | | s |
| | 4 | | | | | | <u>Topsoil</u> | 0.0 | |
| 1 | 8 | S-1 | 0' - 2' | 16 | 1.8-ft. | 0.0' | Brown f-vf SAND, little Silt, trace mf angular to subangular Gravel, organics | 0.0 | |
| ' | 8 | 3-1 | 0-2 | 10 | 1.0-11. | | present (roots, root traces, humus, etc.), moist, no odors. | 0.0 | |
| 2 | 9 | | | | | | <u>Fill Material</u> | 0.0 | |
| _ | 7 | | | | | 0.5' | Brown to grayish-brown cmf ⁽⁺⁾ SAND, little(-) mf angular to subangular Gravel, | 0.0 | |
| 3 | 6 | S-2 | 2' - 4' | 12 | 0.7-ft. | | trace(+) Silt (Incl. Asphalt and Brick fragments), moist, no odors. | 0.0 | |
| 0 | 6 | 0-2 | 2 - 4 | 12 | 0.7-10. | | Fill Material Containing Slag | 0.0 | |
| 4 | 4 | | | | | 2.0' | Deep brown m ⁽⁺⁾ f SAND, little(-) m angular Gravel (Incl. Foundry Sand & Slag), | 0.0 | |
| 7 | 2 | | | | | | moist, no odors. | 0.0 | |
| 5 | 6 | S-3 | 4' - 6' | 11 | 0.2-ft. | 4.0' | Gray to brownish-gray cmf angular GRAVEL, some cmf ⁽⁺⁾ Sand, trace Silt (Incl. | | |
| Ŭ | 5 | | , , | | 0.2 11. | | Slag & Ash), damp to wet, no odors. | | |
| 6 | 8 | | | | | | <u>Fill Material</u> | | |
| · | 12 | | | | | 6.0' | Wood (sawn, but without creosote odor), saturated, no odors. | 0.0 | |
| 7 | 14 | S-4 | 6' - 8' | 32 | 2.0-ft. | | | | |
| · | 18 | • | | 02 | 2.0 16. | | | 0.0 | |
| 8 | 17 | | | | | | | | - |
| | 9 | | | | | 8.0' | As above, saturated, no odors. | 0.0 | |
| 9 | 6 | S-5 | 8' - 10' | 11 | 0.9-ft. | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | |
| | 5 | | | | | 8.2' | Gray f SAND, trace(-) Silt with occasional thin peat layers (~1/16 to 3/16 inches | | |
| 10 | 9 | | | | | | thick), saturated, no odors. | | |
| | 7 | | | | | 10.0' | As above, saturated, no odors. | 0.0 | |
| 11 | 9 | S-6 | 10' - 12' | 18 | 1.0-ft. | | | | |
| | 9 | | | | | | | | |
| 12 | 13 | | | | | | | | - |
| | 11 | | | | | 12.0' | As above, saturated, no odors. | 0.0 | |
| 13 | 12 | S-7 | 12' - 14' | 25 | 1.0-ft. | | | | |
| | 13 | | | | | | | 0.0 | |
| 14 | 13 | | | | | | | | - |
| | 7 | | | | | ŀ | As above, saturated, no odors. | 0.0 | |
| 15 | 6 | S-8 | 14' - 16' | 22 | 1.1-ft. | 14.7' | Gray mf ⁽⁺⁾ SAND, some(+) cmf subangular to subrounded Gravel, saturated, no | | |
| | 16 | | | | | | odors. | 0.0 | |
| 16 | 16 | | | | | | | | 上 |
| | | | LECEND | | | | FES: Native soil encountered @ 8.2-ft RGS | | |

LEGEND

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

NOTES: Native soil encountered @ 8.2-ft. BGS

Monitoring well MW-BS6 installed within borehole BS-6.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET

BS-6 2 OF 2 206377-2a

REMARKS

JOB# CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER

Kevin Bush (Driller) & James Smith (Helper)

GROUND SURFACE ELEVATION START DATE

05-Sep-06

DATUM

TIME WATER CASING

LABELLA REPRESENTATIVE:

C. Stiles

END DATE

05-Sep-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

DATE

WATER LEVEL DATA

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| D | | | | | | t) | | | N |
|--------|---------|-------|-----------|---------|----------|--|--|-----------------|--------|
| E P | | | S | AMPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID READINGS | O T |
| T | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | ΗL | | READINGS | E |
| Н | / 6" | ,,,,, | (FT.) | /RQD(%) | (FEET) | DEF | | | s |
| | 8 | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.0 | |
| 17 | 7 | S-9 | 16' - 18' | 15 | 1.3-ft. | 16.0' | Gray cmf subrounded to subangular GRAVEL, some(+) mf Sand, saturated | | |
| | 8 11 | | | | | 16.4' | no odors. Gray mf SAND, saturated, no odors. | 0.0 | |
| 18 | 1 | | | | | | Gray mf SAND, trace f subrounded Gravel, saturated, no odors. | 0.0 | 1 |
| 19 | 4 | S-10 | 18' - 20' | 9 | 1.0-ft. | | | 0.0 | |
| " | 5 | 0 10 | 10, 20 | | 7.0 16. | | | | |
| 20 | 9 | | | | | | Dettern of Device © 2004 DCC | | 1 |
| | | | | | | | Bottom of Boring @ 20.0-ft. BGS | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 24 | 7 | | | | | | | | |
| 25 | 8 | | | | | | | | |
| | 9 8 | | | | | | | | |
| 26 | 8 | | | | | | • | | |
| 27 | 8 | | | | | | | | |
| " | 13 | | | | | | | | |
| 28 | 14 | | | | | | · | | |
| | 8 | | | | | | | | |
| 29 | 12 | | | | | | | | |
| 30 | 16 | | | | | | | | |
| | | | | | | | | | |
| 31 | | | | | | | | | |
| | | | | | | | | | |
| | | | L | L | | | l | | - |

LEGEND ·

NOTES:

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET

BS-7 1 OF 1

JOB#

206377-2a

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

CHKD. BY:

LABELLA REPRESENTATIVE:

START DATE 30-Aug-06 END DATE

DATE

30-Aug-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

WATER LEVEL DATA

TIME WATER CASING REMARKS

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| | IN DIVILL | -1140 10 | IL THOO | 1401 Applicat | JIC | | | | |
|----------|---------------|----------|-------------|---------------|----------|---------------|---|----------|--------|
| D E | | | SAI | MPLE | | (Feet) | SAMPLE DESCRIPTION | PID | N O |
| | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | READINGS | E |
| Н | / 6" 40 | | (FT.) | /RQD(%) | (FEET) | | Fill Material | | S |
| 1 | 12 8 8 | S-1 | 0' - 2' | 20 | 1.4-ft. | 0.0' 0.5' | Asphalt Gray cmf angular to subangular GRAVEL, some(+) cmf Sand, moist, no odors. Fill Material Containing Slag | 0.0 | |
| 3 | 4 5 11 | S-2 | 2' - 4' | 16 | 1.4-ft. | 1.0' | Deep brown m SAND (Foundry Sand), little(+) cmf angular Gravel (Slag), moist, no odors. As above, moist, no odors. | 0.0 | |
| 4 | 9 | | | | | 2.0 | Fill Material | 0.0 | |
| 4 | 4 | | | | | 2.8' | Gray to brown f SAND, little Silt, trace(+) mf angular Gravel (Concrete), damp, no odors. | 0.0 | |
| 5 | 3 | S-3 | 4' - 6' | 7 | 1.5-ft. | 4.0' | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray f-vf SAND, little(-) Clayey Silt, damp, no odors. | 0.0 | |
| 6 7 | 6 20 | S-4 | 6' - 8' | 37 | 1.6-ft. | 4.9' 6.0' | Gray c ⁽⁺⁾ mf SAND, damp to wet, no odors. As above, wet, no odors. | 0.0 | |
| _ | 17 15 | | | | | 6.4' 7.2' | Wood (no saw cuts or creosote odors), saturated, no odors. Gray c ⁽⁺⁾ mf SAND, wet, no odors. | 0.0 | |
| 8 9 | 6 13 | S-5 | 8' - 10' | 30 | 1.2-ft. | 8.0' | Gray mf SAND, some(-) mf ⁽⁺⁾ subrounded to subangular Gravel, saturated, no odors. | 0.0 | |
| 40 | 17 15 | | | | | 8.4' | Gray mf ⁽⁺⁾ SAND, saturated, no odors Grades To | 0.0 | |
| 10 11 | 4 15 | S-6 | 10' - 12' | 34 | 1.3-ft. | 8.4' 10.0' | Gray f SAND, saturated, no odors. Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 40 | 19 24 | | | | | | | 0.0 | |
| 12 13 | 8 12 21 | S-7 | 12' - 14' | 33 | 0.5-ft. | 12.0' | As above, saturated, no odors. | 0.0 | |
| 14 15 | 22 5 18 | S-8 | 14' - 16' | 37 | 1.4-ft. | 14.0' | Gray cm ⁽⁺⁾ f SAND, some(-) mf subrounded to subangular GRAVEL, saturated, no odors. | 0.0 | |
| 16 | 19 25 | | · · · · · · | | | | | 0.0 | |
| 10 | | | | l | I | | | | 1 |

LEGEND

NOTES: Native soil between 3.4 & 4.0-ft. BGS

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT Remedial Investigation Proposed Port Marina: Port of Rochester Rochester, New York

BS-8 BORING SHEET 1 OF 1 JOB# 206377-2a

REMARKS

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper)

LABELLA REPRESENTATIVE:

BORING LOCATION

GROUND SURFACE ELEVATION

START DATE 30-Aug-06 END DATE

DATE

WATER LEVEL DATA

TIME WATER CASING

DATUM

CHKD. BY:

30-Aug-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| DOOK DOLLING MET | IOD Net Assissable | |
|--------------------|--------------------|--|
| ROCK DRILLING METH | IOD Not Applicable | |

| ROC | K DRILL | ING N | METHOD | Not Applicat | ole | | | | |
|-----|---------|-------|-----------|--------------|----------|--------------|--|----------|---|
| D | | | | | | (| | | N |
| E | | | SA | MPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID | 0 |
| Р | | | | | | ⊢ ⊢ | | READINGS | Т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | PT | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | DE | | | s |
| | 7 | | | | | | <u>Fill Material</u> | 0.0 | |
| 1 | 5 | S-1 | 0' - 2' | 10 | 1.5-ft. | 0.0' | Milled asphalt. | 0.0 | |
| ' | 5 | ٠, ا | 0 - 2 | 10 | 1.0-10. | 0.4' | Tan vf SAND, trace Silt, moist to damp, no odors. | 0.1 | 1 |
| 2 | 13 | | | | | 1.1' | Reddish-brown m SAND (Foundry Sand), damp, no odors. | 0.1 | |
| - | 8 | | | | | 2.0' | As above, damp, no odors. | 0.1 | |
| 3 | 8 | S-2 | 2' - 4' | 16 | 1.6-ft. | * | Fill Material Containing Slag | | |
| | 8 | 0 2 | 2 , | 10 | 1.016 | 2.3' | Gray, green and brown m ⁽⁺⁾ f angular GRAVEL (Gray & green Slag), some(+) cmf | 0.0 | |
| 4 | 8 | | | | | | odors. | |] |
| | 4 | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.0 | |
| 5 | 3 | S-3 | 4' - 6' | 7 | 1.4-ft. | 2.5' | Brown f-vf SAND, trace Silt, damp, no odors. | | |
| | 4 | | | • | '''' | | Grades To | 0.0 | |
| 6 | 6 | | | | | | Brown vf SAND, some Silt, damp, no odors. | | |
| | 8 | | | | | 4.0' | As above, wet, no odors. | 0.0 | |
| 7 | 12 | S-4 | 6' - 8' | 26 | 1.4-ft. | | Grades To | | |
| | 14 | | | | | | Brown vf SAND, some Clayey Silt, with thin Peat layer (<0.01-ft. thick) @ 5.3-ft. | 0.0 | |
| 8 | 18 | | | | | | wet to saturated @ 5.2-ft., no odors. | | . |
| | 6 | | | | | 6.0' | Gray cmf SAND, little(+) mf subrounded to subangular Gravel, saturated, no | 0.0 | |
| 9 | 19 | S-5 | 8' - 10' | 41 | 1.5-ft. | | odors. | | |
| | 22 | | | | | 8.0' | Gray mf ⁽⁺⁾ subrounded to subangular GRAVEL, some(+) cm Sand, saturated, | 0.0 | |
| 10 | 16 | | | | | | no odors. | | |
| | 3 | | | | | 9.0' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 11 | 6 | S-6 | 10' - 12' | 14 | 1.5-ft. | 10.0' | As above, saturated, no odors. | | |
| | 8 | | | | | | | 0.0 | |
| 12 | 20 | | | | | | (4) | | - |
| | 6 | | | | | 12.0' | As above with layers of Brown cm ⁽⁺⁾ f SAND, some(+) f subrounded Gravel from | 0.0 | |
| 13 | 13 | S-7 | 12' - 14' | 27 | 1.3-ft. | | 12.6 to 12.7-ft. and 13.0 to 13.1-ft., saturated, no odors. | | |
| | 14 | | | | | | | 0.0 | |
| 14 | 12 | | | - | | | (+) | | - |
| | 4 | | | | | 14.0' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 15 | 5 | S-8 | 14' - 16' | 11 | 1.0-ft. | | Grades To | | |
| , | 6 | | | | | | Gray f SAND, little Silt w/ several thin (<0.01-ft.) Peat layers, saturated, no odors. | | |
| 16 | 4 | | _ | | | | | | |
| 1 | | | LEGEND | | | I NOT | 「FS: Native soil encountered @ 2.5-ft BGS | | |

LEGEND

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

NOTES: Native soil encountered @ 2.5-ft. BGS

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING#

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET

BS-9 1 OF 2

JOB#

CHKD. BY:

206377-2a

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper)

LABELLA REPRESENTATIVE:

BORING LOCATION

START DATE

GROUND SURFACE ELEVATION

30-Aug-06

END DATE

DATUM

30-Aug-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

C. Stiles

ROCK DRILLING METHOD Not Applicable

| | WATE | ER LEVEL I | DATA | |
|------|------|------------|--------|---------|
| DATE | TIME | WATER | CASING | REMARKS |
| | | | | ŧ |
| | | | | |

| D | | | | | | _ | · | | N |
|----------------|------------------------|--------|------------|---------|----------|----------------|---|----------|---|
| E | | | SAI | MPLE | | eet | SAMPLE DESCRIPTION | PID | 0 |
| P | | | | | | DEPTH (Feet) | | READINGS | Т |
| T | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | ΡŢ | | | E |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | 띰 | | | s |
| 1 | 9 15 32 | S-1 | 0' - 2' | 24 | 1.2-ft. | 0.0' | Topsoil Dark brown f SAND, little(+) cmf angular Gravel, little(-) Silt (Incl. Concrete), organics present (roots, root traces, humus, etc.), damp, no odors. Fill Material | 0.0 | |
| 3 | 19 26 30 | S-2 | 2' - 4' | 56 | 1.2-ft. | 0.7' 2.0' | Dark brown f SAND and cmf(+) angular Gravel, little(-) Silt (Incl. Concrete), damp, no odors. Concrete fragments. | 0.0 | |
| 5 | 25 5 5 5 7 | S-3 | 4' - 6' | 10 | 0.6-ft. | 2.3' 4.0' | Fill Material Containing Slag Orange-brown to gray cmf(+) SAND, some(+) cmf angular to subangular Gravel, trace Silt (Incl. Cinders, Concrete, Ash & Slag), moist, no odors. Bluish-gray to brown cm(+)f angular GRAVEL and cmf SAND (Incl. Concrete, Cinders, & 1-piece Slag), moist to wet, no odors. | 0.0 | |
| 7 | 6 5 3 | S-4 | 6' - 8' | 8 | 0.9-ft. | 6.0' | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Grayish-brown $c^{(+)}$ mf SAND, some(-) $mf^{(+)}$ angular to subangular Gravel, wet to saturated, H_2S odor. | 0.0 | |
| 9 | 1 5 12 22 | S-5 | 8' - 10' | 17 | 1.0-ft. | 8.0' 8.4' | Brown to grayish-brown mf ⁽⁺⁾ SAND and Clayey SILT, organics present (Peaty wood fragments), saturated, H ₂ S odor. Gray cmf SAND, some(+) mf subrounded Gravel, saturated, no odors. | 0.0 | |
| 11 | 5 25 54 | S-6 | 10' - 12' | 79 | 1.4-ft. | 10.0' 10.8' | As above, saturated, no odors. Gray cm ⁽⁺⁾ f SAND, saturated, no odors. | 0.0 | |
| 12 | 10 13 14 | S-7 | 12' - 14' | 27 | 1.5-ft. | 12.0' | Gray mf ⁽⁺⁾ SAND, trace(-) m subrounded Gravel, saturated, no odors Grades To Gray f SAND, saturated, no odors. | 0.0 | |
| 14 15 16 | 5 | S-8 | 14' - 16' | 8 | 1.0-ft. | 14.0' | As above, saturated, no odors Grades To Gray cm ⁽⁺⁾ f SAND with 3/16-in. thick Peat layer @ 14.7-ft. BGS, saturated, no odors. | 0.0 | |
| | | | LEGEND | | | ГОИ | ES: Native soil between 4.6 & 6.0-ft. BGS | | |
| | S-SP | LIT SP | OON SOIL S | SAMPLE | | | | | |
| | U - UN | DISTU | RBED SOIL | SAMPLE | | | | | |

C - ROCK CORE SAMPLE GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING#

PROJECT Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET JOB#

CHKD. BY:

2 OF 2 206377-2a

BS-9

REMARKS

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER Kevin Bush (Driller) & James Smith (Helper) **GROUND SURFACE ELEVATION**

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE

DATE

END DATE

WATER LEVEL DATA

TIME WATER CASING

30-Aug-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| D E | | | S | SAMPLE | | et) | SAMPLE DESCRIPTION | PID | N O |
|--------|-----------------|------|-----------|---------|----------|--------------|--|---------------------------------------|---|
| P | | | | | | DEPTH (Feet) | | READINGS | T |
| 1 | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | ∓TT | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | E | | ' | S |
| 17 | 2 WOH WOH | S-9 | 16' - 18' | <1 | 1.3-ft. | 16.0' | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Gray f SAND, trace Clayey Silt (Incl. ~2% Peat), saturated, no odors. Grades To | 0.0 | |
| 18 | 2 | | | | | | Gray to brownish-gray SILT & CLAY (Incl. ~30% Peat), saturated, no | 0.0 | |
| | WOH 1 | 0.40 | 101 001 | | | 18.0' | odors. As above,, but only contains ~10% Peat, saturated, no odors. | 0.0 | |
| 19 | 1 | S-10 | 18' - 20' | 2 | 1.1-ft. | | Gray f SAND, trace(-) Silt, saturated, no odors. | 0.0 | |
| 20 | | | | | | | Bottom of Boring @ 20.0-ft. BGS | | |
| 21 | | | | | | | | | *************************************** |
| 22 | | | | | | | | | |
| | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | 7 | | | | | | | | |
| 25 | 8 | | | | | | | | |
| | 9 8 | | | | | | | | |
| 26 | 8 | | | | | | | | |
| 27 | 13 | | | | | | | | |
| 28 | 14 | | | | | | | | |
| 29 | 8 | | | | | | | | |
| | 12 16 | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| | | | | | | | | | |
| | 1 | · | LEGEND | 1 | 1 | NOT | TC· | · · · · · · · · · · · · · · · · · · · | • |

LEGEND

NOTES:

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE

LBA

BORING #

PROJECT

Remedial Investigation Proposed Port Marina: Port of Rochester

Rochester, New York

BORING SHEET

CHKD. BY:

BS-10

REMARKS

1 OF 2

JOB# 206377-2a

BORING LOCATION

DRILLER Kevin Bush (Driller) & James Smith (Helper)

GROUND SURFACE ELEVATION

DATUM

WATER LEVEL DATA TIME WATER CASING

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 01-Sep-06

END DATE

DATE

01-Sep-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

CONTRACTOR: Nothnagle Drilling Co.

| OVE | RBURD | EN SA | AMPLING ME | ETHOD | 2" x 2' Split- | spoon | w/140# Hammer | | | | | | | |
|-----|---------|--------|------------|-------------|----------------|--------------|--|---------------|---------|------------|-------------|----------|----------|-----|
| ROC | K DRILI | LING I | METHOD | Not Applica | ble | | | | | | | | | |
| D | | | | | | | | | | | | | | N |
| E | | | SA | MPLE | | et) | SAMP | LE DESCRIF | OIT | 1 | | | PID | |
| Р | | | | | | F) + | | | | | | | READINGS | T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | | | | | | E |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | DE | | | | | | <u> </u> | | s |
| | 2 | | | | | | | Topsoil\ | | | | | 0.0 | |
| 1 | 12 | S-1 | 0' - 2' | 23 | 1.3-ft. | 0.0' | Brown f SAND, little Silt, little(-) mf | angular Grav | vel (B | rick fragm | ents), orga | anics | | |
| | 11 | | | | | | present (roots, root traces & humu | ,, | | | | | 0.0 | |
| 2 | 10 | | | | | | | ial Contain | | | | | | . |
| | 8 | | | | | 0.6' | Gray, green and brown cmf angula | • | Gray | & green S | lag), some | (+) cmf | 0.0 | |
| 3 | 12 | S-2 | 2' - 4' | 25 | 0.4-ft. | | Sand (Cinders & Slag), moist, no c | | | | | | | |
| | 13 | | | | | 2.0' | Gray, green and brown m(+)f angul | | | & green S | Slag), some | e(+) cmf | | |
| 4 | 9 | | | | | | Sand (Cinders, Slag & trace Ash), | moist, no odo | ors. | | | | | - 1 |
| | 6 | | | | | 4.0' | As above, damp, no odors. | | | | | | 0.0 | |
| 5 | 5 | S-3 | 4' - 6' | 7 | 1.2-ft. | | Mixed Lacustrine (Bea | | vial | (Deltaic) | Deposit | <u>s</u> | | |
| | 2 | | | | | 4.3' | Tan to brown mf ⁽⁺⁾ SAND, damp, n | o odors. | | | | | 0.0 | |
| 6 | 2 | | ********** | | | | Grades To | | | | | | | - |
| 1 | 2 | | - | | | | Tan to brown cm ⁽⁺⁾ f SAND, wet, no | | | | | | 0.0 | |
| 7 | 2 | S-4 | 6' - 8' | 3 | 1.4-ft. | 6.0' | As above, saturated with slight H ₂ S | 3 odor. | | | | | | |
| | 1 | | | | | | Grades To | | | | | | 0.0 | |
| 8 | 1 | | | | | | Tan mf ⁽⁺⁾ SAND, trace Clayey Silt, | | | | | | | |
| | 2 | | - | | | 7.3' | Dark brown f SAND, little(+) Silt (In | | | | | dors. | 0.0 | |
| 9 | 7 | S-5 | 8' - 10' | 13 | 0.9-ft. | 8.0' | Gray cm ⁽⁺⁾ f SAND, little cmf subrou | ınded Gravel | l, satu | ırated, no | odors. | | | |
| | 6 | | | | | | | | | | | | | |
| 10 | 8 | | | | ļ | | | | | | | | | - |
| | 4 | | | | | 10.0' | As above, saturated, no odors. | | | | | | 0.0 | |
| 11 | 7 | S-6 | 10' - 12' | 15 | 1.1-ft. | | Grades To | | | | | | | |
| | 8 | | | | | | Gray mf ⁽⁺⁾ SAND, trace(+) mf subre | ounded Grave | el, sa | turated, n | o odors. | | 0.0 | |
| 12 | 8 | | | | | | (1) | | | | | | | - |
| 1 | 2 | | | | | 12.0' | Gray mf ⁽⁺⁾ SAND, saturated, no od | ors. | | | | | 0.0 | |
| 13 | 2 | S-7 | 12' - 14' | 4 | 1.1-ft. | | | | | | | | | |
| | 2 | | | | | | | | | | | | 0.0 | |
| 14 | 5 | | | | ļ | | | | | | | | | - |
| | 3 | | | | | 14.0' | As above, saturated, no odors. | | | | | | 0.0 | |
| 15 | | S-8 | 14' - 16' | 4 | 0.7-ft | | | | | | | | | |
| | 1 | | | | | | | | | | | | | |
| 16 | 2 | L | | 1 | | | | | | | | | <u> </u> | Щ |
| 1 | | | LEGEND | | | I NOT | FS: Native soil encountered @ | 0 4 3-ft RG | S | | | | | 1 |

LEGEND

NOTES: Native soil encountered @ 4.3-ft. BGS

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE
- GENERAL NOTES:
 - 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
 - 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING # **BS-10**

PROJECT Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET JOB#

CHKD. BY:

BS-10 2 OF 2 206377-2a

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER Kevin Bush (Driller) & James Smith (Helper)

GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

START DATE

END DATE

01-Sep-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

WATER LEVEL DATA

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

DATE TIME WATER CASING REMARKS

| D | } | | | • | | | | | N |
|-------------|---------------|--------|-----------|---------|----------|--------------|---|----------|---|
| E | | | S | AMPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID | 0 |
| P | | 1 | | | | E | | READINGS | T |
| T H | BLOWS / 6" | NO. | DEPTH | N-VALUE | RECOVERY | Ē | | | E |
| | WOH | | (FT.) | /RQD(%) | (FEET) | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | S |
| | 1 | | | | | 16.0' | Gray Silty CLAY with Peat layers @ 16.5-ft. BGS (~3/16-in. thick) and | 0.0 | |
| 17 | 2 | S-9 | 16' - 18' | 3 | 1.6-ft. | 10.0 | 16.6-ft. BGS (~1/4-in. thick), saturated, no odors. | | |
| l | 2 | | | | | | , , , , , , , , , , , , , , , , , , , | 0.0 | |
| 18 | WOH | | | | | 18.0' | As above, saturated, no odors. | | |
| 19 | 14/011 | 2 10 | 18' - 20' | >2 | 0.2-ft. | | | 0.0 | |
| 19 | 2 | 3-10 | 10 - 20 | -2 | U.Z-It. | | | | |
| 20 | 2 | | | | · | | | | |
| | | | | | | | Bottom of Boring @ 20.0-ft. BGS | | |
| 21 | | | | | | | | | |
| | | | | | | | | | |
| 22 | | | | | | | | | |
| | | | | | | | | | |
| 23 | | | | | | | | | |
| l | | | | | | | | | |
| 24 | 7 | | | | | | | | |
| 25 | 8 | | | | | | | | |
| 23 | 9 | | | | | | | | |
| 26 | 8 | | | | | | | | |
| | 8 | | | | | | | | |
| 27 | 8 | | | | | | | | |
| | 13 | | | | | | | | |
| 28 | 2 | | | | | | | | |
| | 8 | | | | | | | | |
| 29 | 12 | | | | | | | | |
| | 16 | | | | | | | | |
| 30 | | | | | | | | | |
| 31 | | | | | | | | | |
| 31 | | | | | | | | | |
| | | | | | | | | | |
| | | LEGEND | | | | NOT | ES: | | |

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING#

PROJECT Remedial Investigation Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET JOB#

CHKD. BY:

1 OF 1 206377 Phase 2

BS-11

REMARKS

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Kevin Bush (Driller) & James Smith (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

TIME WATER CASING

LABELLA REPRESENTATIVE:

START DATE 31-Aug-06

END DATE

DATE

31-Aug-06 WATER LEVEL DATA

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| ROC | K DRILL | ING N | METHOD | Not Applicat | ole | | | | |
|-----|----------|-------|-----------|--------------|----------|--------------|---|----------|----------|
| D | | | | | | | | | Z |
| E | | | SA | MPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID | 0 |
| Р | | | | | | F) + | | READINGS | т |
| Т . | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | Ę | | | Е |
| H | / 6" | | (FT.) | /RQD(%) | (FEET) | DEI | | | s |
| | 5 | | | | ` , | | Topsoil | 2.2 | |
| ١., | 10 | 0.4 | 01 01 | 40 | | 0.0' | Brown f SAND, little Silt, trace(+) mf subrounded Gravel, organics present (roots, | 0.0 | . |
| 1 | 9 | S-1 | 0' - 2' | 19 | 1.4-ft. | | root traces, humus, etc.), moist, no odors. | | . |
| | 10 | | | | | • | Fill Material Containing Slag | 0.0 | . |
| 2 | 6 | | | | | 0.4' | Tan to brown mf ⁽⁺⁾ SAND, little mf subrounded to angular Gravel (Incl. Slag), | | . |
| | 9 | | | 0.4 | | | moist, no odors. | 0.0 | l |
| 3 | 12 | S-2 | 2' - 4' | 21 | 1.5-ft. | 2.0' | Tan mf ⁽⁺⁾ SAND, little cmf angular Gravel (Incl Slag), moist, no odors. | | . |
| ١. | 15 | | | | | | Fill Material | 0.0 | 1 |
| 4 | 6 | | | | | 4.0' | Tan mf ⁽⁺⁾ SAND, trace Silt, trace mf subrounded to subangular Gravel, moist, no | | . |
| | 8 | | | | | | odors. | 0.0 | . |
| 5 | 8 | S-3 | 4' - 6' | 16 | 1.9-ft. | | Fill Material Containing Slag | | . |
| | 7 | | | | | 4.1' | Black cmf SAND, little f subangular Gravel, trace Silt (Incl. Cinders, Glass, Ash & | 0.0 | 1 |
| 6 | 4 | | | | | | trace Slag), damp, very slight waste oil odor. | | . |
| | 6 | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.0 | ı |
| 7 | 7 | S-4 | 6' - 8' | 13 | 1.2-ft. | 4.7' | Dark gray SILT, trace(+) vf Sand, damp to wet, no odors. | | 1 |
| | 6 | | | | | | As above, saturated, no odors. | 0.0 | 1 |
| 8 | 8 | | | | | 6.7' | Gray cmf SAND, little(+) mf subrounded to subangular Gravel, saturated, no | | í |
| | 9 | | | | | 0.1 | odors. | 0.0 | 1 |
| 9 | 11 | S-5 | 8' - 10' | 20 | 0.9-ft. | 8.0' | Wood, no creosote odor, saturated. | | . |
| | 14 | | | | | 8.3' | Gray c ⁽⁺⁾ mf SAND and f subrounded Gravel, saturated, no odors. | | |
| 10 | 9 | | | | | 10.0' | Gray mf SAND, some to some(+) cmf subrounded to subangular Gravel, | | |
| | 11 | | | | | 10.0 | saturated, no odors. | 0.0 | |
| 11 | 12 | S-6 | 10' - 12' | 23 | 1.0-ft. | | Suturation, no outro. | | |
| | 13 | | | | | | | | |
| 12 | 8 | | | | | 12 0' | Gray cmf SAND, little mf subrounded Gravel, saturated, no odors. | | 1 |
| | - | | | | | | Gray f SAND, saturated, no odors. | 0.0 | |
| 13 | 16 17 | S-7 | 12' - 14' | 33 | 1.1-ft. | 12.4 | Johan I Shind, saturated, no odors. | | 1 |
| | | | | | | | | | 1 |
| 14 | 17 | | | | | 14.01 | Crownt SAND trace() fourtrounded Crown activisted an adam | | |
| | 12 | | | | | 14.0 | Gray mf SAND, trace(-) f subrounded Gravel, saturated, no odors. | 0.0 | |
| 15 | 14 | S-8 | 14' - 16' | 27 | 1.2-ft. | | | | |
| | 13 | | | | | | Dettern of Device Q 40 0 G - 4 DOO | 0.0 | |
| 16 | 16 11 | | | | | NOT | Bottom of Boring @ 16.0-feet BGS | | \dashv |
| | | | LEGEND | | | TON | ES: Native soil encountered @ 4.7-ft. BGS. | | - 1 |

S - SPLIT SPOON SOIL SAMPLE

- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING#

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

BORING SHEET JOB#

BS-12 1 OF 1

206377 Phase 2a

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION DRILLER Kevin Bush (Driller) & James Smith (Helper)

GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 30-Aug-06

END DATE

30-Aug-06

TYPE OF DRILL RIG:

Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| | WATER LEVEL DATA | | | | | | | | | | | | | |
|----|--------------------------------|--------|----|--|--|-----|--|--|--|--|--|--|--|--|
| | DATE TIME WATER CASING REMARKS | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | l N | | | | | | | | | | | | | |
| MD | ו ב חבפרו | DIDTIO | NI | | | DID | | | | | | | | |

| 1100 | TOTAL | LIIVG | WETTIOD | тчот друшса | DIE | | | | |
|------|-------|-------|---------------|-------------|-------------|--------------|--|----------|---|
| D | | | | | | | | | N |
| E | | | SA | MPLE | | je (| SAMPLE DESCRIPTION | PID | 0 |
| Р | | | | | | I I | | READINGS | T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | 吕 | | | s |
| | 8 | | | | | | Topsoil | 0.0 | |
| 1 | 46 | S-1 | 0' - 2' | 122 | 2.0-ft. | 0.0' | Brown f SAND, little Silt, trace(+) mf subrounded Gravel, moist, no odors. | 0.0 | |
| | 76 | | | , | 2.0 1 | | Fill Material Containing Slag | 0.0 | |
| 2 | 30 | | | | | 0.4' | Brownish-gray metallic SLAG. | 0.0 | |
| | 25 | | | | | | <u>Fill Material</u> | 0.0 | |
| 3 | 40 | S-2 | 2' - 4' | 85 | 1.2-ft. | 0.6' | Gray Concrete and Limestone fragments. | 0.0 | |
| | 45 | | | | '' | | Fill Material Containing Slag | 0.0 | |
| 4 | 26 | | | | | 2.0' | Gray and brown cmf angular GRAVEL and cmf ⁽⁺⁾ SAND, little(-) Silt (Incl. | 0.0 | |
| | 4 | | | | | | Concrete, Crushed Gravel and trace Slag), moist, no odors. | 0.0 | |
| 5 | 5 | S-3 | 4' - 6' | 8 | 1.7-ft. | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.0 | |
| • | 3 | | , , | | , , , , , , | 4.0' | Brown f SAND, little(-) Silt, damp, no odors. | 0.0 | |
| 6 | 5 | | 177 | | | | Grading To | 0.0 | |
| Ū | 5 | | | | | | Brown f SAND, little Clayey Silt, damp to wet, no odors. | 0.0 | |
| 7 | 8 | S-4 | 6' - 8' | 14 | 1.6-ft. | 6.0' | Brown f SAND, little(+) Silt, wet, no odors. | 0.0 | |
| • | 6 | | | 1-7 | 1.0 | 6.7' | Gray mf subangular to angular GRAVEL and cm SAND, wet, no odors. | 0.0 | |
| 8 | 6 | | | | | 6.9' | Gray mf SAND, wet, no odors. | 0.0 | |
| _ | 2 | | | | | 8.0' | Gray mf SAND, saturated, no odors. | 0.0 | |
| 9 | 1 | S-5 | 8' - 10' | 2 | 0.8-ft. | | | 0.0 | |
| | 1 | | | - | 0.0 11. | | | | |
| 10 | 2 | | | | | | | | |
| | 1 | | | | | 10.0' | As above with Wood fragment @ 10.4-ft. BGS, saturated, no odors. | 0.0 | İ |
| 11 | 2 | S-6 | 10' - 12' | 6 | 0.4-ft. | | | 0.0 | |
| | 4 | | | - | | | | | |
| 12 | 3 | | | | | | | | |
| - | 9 | | | | | | Wood, saturated, no odors. | 0.0 | ĺ |
| 13 | 14 | S-7 | 12' - 14' | 26 | 1.4-ft. | 12.3' | Gray mf SAND, some c ⁽⁺⁾ mf subrounded Gravel, saturated, no odors. | 3.0 | ĺ |
| - | 12 | | . = •• | | | | | 0.0 | ł |
| 14 | 10 | | | | | | | 0.0 | |
| | 19 | | | | | 14.0' | Gray mf ⁽⁺⁾ SAND, little cm ⁽⁺⁾ f subrounded to subangular Gravel, saturated, no | 0.0 | ĺ |
| 15 | 34 | S-8 | 14' - 16' | 71 | 0.6-ft. | | odors. | 0.0 | ĺ |
| .0 | 37 | ~ ~ | , , 10 | ′' | U.U-11. | | | | |
| 16 | 15 | | | | | | Bottom of Boring @ 16.0-feet BGS | | L |
| | | | <u>LEGEND</u> | | | NOT | ES: Native soil encountered between 3.2 & 4.0-ft. BGS. | | |

Native soil encountered between 3.2 & 4.0-ft. BGS.

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BS-12 BORING #

PROJECT Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET

BS-13 1 OF 1

REMARKS

JOB# CHKD. BY: 206377 Phase 21

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

GROUND SURFACE ELEVATION

DATUM

WATER CASING

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 07-Nov-06 END DATE

TIME

DATE

07-Nov-06 WATER LEVEL DATA

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| ROCK DRILLING METHOD N | ot Applicable |
|------------------------|---------------|
|------------------------|---------------|

| ROC | KUKILI | LING | METHOD | Not Applicat | ole | | | | |
|-----|--------|------|---------------|--------------|----------|--------------|--|-----------|---------|
| D | | | | | | | | | N |
| E | | | SA | MPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID | 0 |
| Р | | | | | | Ŧ, | | READINGS | Т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | 🛱 | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | | | | s |
| | 2 | | | | | 0.0' | Topsoil | 0.0 | |
| 1 | 5 6 | S-1 | 0' - 2' | 11 | 1.7-ft. | 0.0 | Brown f SAND, little Silt, little(-) mf ⁽⁺⁾ subangular Gravel, organics present (roots root traces, humus), damp, no odors. | 0.0 | |
| 2 | 15 | | | | | 0.01 | Fill Material | | |
| 3 | 12 | 0.0 | 01 41 | 40 | 4 4 4 | 0.6' | Brown f SAND, little(+) cmf subangular to subrounded Gravel, little Silt (Incl. Asphalt fragments), damp, no odors. | 0.5 | |
| 3 | 6 | S-2 | 2' - 4' | 16 | 1.4-ft. | | Fill Material Containing Slag | 0.1 | |
| 4 | 2 | | | | | 2.0' | Brown mf ⁽⁺⁾ SAND, some cmf sub angular to angular Gravel (Incl/ blue-green Slag and Ash), damp, no odors. | | |
| 5 | 3 | S-3 | 4' - 6' | 7 | 0.4-ft. | | <u>Fill Material</u> | 0.0 | |
| | 8 | | | | | ł | Brown mf ⁽⁺⁾ SAND, damp, no odors. Dark brown cmf SAND, little(-) mf angular to subangular Gravel (Incl. Ash), wet, | 0.0 | |
| 6 | 4 | | | | | | no odors. | Not | |
| 7 | 7 | S-4 | 6' - 8' | 10 | 0.0-ft. | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | Available | |
| • | 2 | | | | | 4.2' 6.0' | Brownish-gray mf ⁽⁺⁾ SAND, saturated, no odors. No recovery. | | |
| 8 | . 5 | | | | | 8.0' | No recovery. | Not | |
| 9 | 7 | S-5 | 8' - 10' | 14 | 0.0-ft. | | | Available | |
| 10 | 3 | | | | | | | | |
| 10 | 8 | | | | | 10.0' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 11 | 8 | S-6 | 10' - 12' | 14 | 1.2-ft. | | | | |
| 12 | 8 | | | | | | | 0.0 | |
| | 4 | | | | | 12.0' | As above, saturated, no odors. | 0.1 | |
| 13 | 6 4 | S-7 | 12' - 14' | 10 | 1.4-ft. | 12.3' | | | |
| 14 | 6 | | | | | | | 0.0 | |
| | 1 | | | | | 14.0' | Gray mf SAND, saturated, no odors. | 0.1 | |
| 15 | 2 | S-8 | 14' - 16' | 3 | 1.0-ft. | | | 0.0 | İ |
| 16 | 2 | | | | | | Bottom of Boring @ 16.0-feet BGS | . 0.0 | <u></u> |
| | | | <u>LEGEND</u> | | | TON | ES: Originally logged as boring PB-1 | | |

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

Native soil encountered @ 4.2-ft.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

DATE

BORING SHEET JOB#

1 OF 1 206377 Phase 2t

BS-14

REMARKS

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) LABELLA REPRESENTATIVE:

BORING LOCATION

GROUND SURFACE ELEVATION

WATER LEVEL DATA

TIME WATER CASING

DATUM

START DATE 07-Nov-06 END DATE

07-Nov-06

CHKD. BY:

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

| | l | | |
|--|-------|--|--|
| OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer | | | |
| ROCK DRILLING METHOD Not Applicable | | | |
| D | | | |

| D | | SAMPLE | | | | Feet) | SAMPLE DESCRIPTION | PID | N 0 |
|----------|---------------------------------|--------|------------------|---------|-------------------|--------------|---|------------|----------|
| P | BLOW | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | READINGS | E |
| H | 3 8 | S-1 | (FT.) 0' - 2' | /RQD(%) | (FEET) 1.1-ft. | | Topsoil Brown f SAND, little(-) Clayey Silt, trace f Gravel, organics present (roots, root | 0.4 | S |
| | 12 | | | | | 0.1' | traces, humus), wet, no odors. WOOD (Tree root). | 0.4 | |
| | 7 7 | S-2 | 2' - 4' | 15 | 1.0-ft. | 0.3' | Fill Material Containing Slag Dark to deep brown cmf SAND, some(+) cmf angular to subrounded Gravel (Incl. | 0.0 | |
| | 8 7 | _ | | | | | blue-green Slag, Ash and Foundry Sand), damp, no odors. <u>Fill Material</u> | 0.1 | |
| | 2 2 2 | S-3 | 4' - 6' | 4 | 0.4-ft. | 2.0' | Deep brown cm ⁽⁺⁾ f SAND, trace f subangular Gravel, (Incl. Foundry Sand w/ trace Ash), damp, no odors. Fill Material Containing Slag | 0.1 | |
| | 3 2 | | | | | 4.0' 6.0' | As above with trace blue-green Slag, wet to saturated @ 4.3-ft., no odors. As above, saturated, very slight H ₂ S odor. | | |
| | $7 \overline{\smash{\big }\ 2}$ | S-4 | 6' - 8' | 4 | 1.6-ft. | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Brown & gray mf ⁽⁺⁾ SAND, little Peat, trace Silt, saturated, very slight H ₂ S odor. | 0.2 | |
| ; | 3 4 | | | | | | | 4.3 | |
| , | 10 6 6 | S-5 | 8' - 10' | 12 | 1.4-ft. | 8.0' | Gray f SAND, trace(-) Silt, saturated, very slight H₂S odor. | 3.7 2.2 | |
| 10 | 6 | | | | | 10.0' | As above, saturated, no odors. | 0.2 | |
| 1 | 1 10 12 | S-6 | 10' - 12' | 22 | 1.4-ft. | | Grades To Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.2 | |
| 1: | 2 10 | | | | | 12.0' | As above with thin PEAT layers (~0.01-ft thick) @ 12.3 and 13.2-ft., saturated, no | 0.2 | |
| 1 | 5 | S-7 | 12' - 14' | 8 | 1.6-ft. | | odors. | 0.1 | |
| 1 | 1 | | - | | | 14.0' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 1: | 2 | S-8 | 14' - 16' | 3 | 1.2-ft. | | · Bottom of Boring @ 16.0-feet BGS | . 0.0 | |
| <u> </u> | 16 3 | | | | | | ES: Originally logged as boring PB-2 | <u> </u> | \dashv |

S - SPLIT SPOON SOIL SAMPLE `

Native soil encountered @ 6.7-ft.

Originally logged as boring PB-2

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT

Remedial Investigation

DATE

Proposed Port Marina: Port of Rochester

BORING SHEET

CHKD. BY:

JOB#

1 OF 1 206377 Phase 2t

BS-15

REMARKS

Rochester, New York

CONTRACTOR: Nothnagle Drilling Co.

LABELLA REPRESENTATIVE:

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) C. Stiles

BORING LOCATION

GROUND SURFACE ELEVATION 07-Nov-06 START DATE

END DATE

WATER LEVEL DATA

TIME WATER CASING

DATUM

07-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| ROC | K DRILL | .ING N | METHOD | Not Applicat | ble | | | | |
|-----|---------|--------|-----------|--------------|----------|-------------|---|----------|---|
| D | | | | | | | | | Ν |
| E | | | SA | MPLE | | EPTH (Feet) | SAMPLE DESCRIPTION | PID | 0 |
| P | | | | | | Ē. | | READINGS | Т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | Ė | | | Е |
| Н. | / 6" | | (FT.) | /RQD(%) | (FEET) | DE | | | s |
| | 36 | | | | | | Fill Material | 0.8 | |
| 1 | 16 | S-1 | 01 01 | 20 | 17# | 0.0' | Asphalt Pavement - Not sampled. | 0.6 | |
| ' | 14 | 5-1 | 0' - 2' | 30 | 1.7-ft. | 0.5' | Gray cm ⁽⁺⁾ f angular to subangular GRAVEL, some cmf ⁽⁺⁾ Sand, moist, no odors. | 0.4 | |
| 2 | 9 | | | | | 1.0' | Dark gray cm ⁽⁺⁾ f SAND, trace(+) f Gravel (Incl. Ash and Cinders), moist, no odors. | 0.4 | |
| 2 | 5 | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.0 | |
| 3 | 6 | S-2 | 2' - 4' | 12 | 1.4-ft. | 1.4' | Dark brown SILT and f SAND, trace(-) f Gravel, damp, no odors. | 0.0 | |
| 3 | 6 | 3-2 | 2 - 4 | 12 | 1.4-11. | 1.3' | Brown mf SAND, moist, no odors. | 0.0 | |
| .4 | 5 | | | | | 2.0' | Deep brown m ⁽⁺⁾ f SAND and cmf subrounded Gravel (Incl. Foundry sand), moist, | 0.0 | |
| " | 2 | | | | | | no odors. | 0.0 | |
| 5 | 2 | S-3 | 4' - 6' | 7 | 1.4-ft. | | Grades To | 0.0 | |
| 3 | 5 | 3-3 | 4-0 | / | 1.4-1(. | | Gray SILT, little(-) f-vf Sand (Incl. Peat fragments), damp, no odors. | 0.0 | |
| 6 | 3 | • | | | | 3.1' | Gray mf ⁽⁺⁾ SAND, damp, no odors. | 0.0 | |
| " | 3 | | | | | 4.0' | Gray to grayish-brown f SAND, trace(+) Peat, trace Silt, damp, no odors. | 0.0 | |
| 7 | 8 | S-4 | 6' - 8' | 19 | 1.2-ft. | 4.3' | Gray f SAND, wet to saturated @ ~4.5-ft., no odors. | 0.0 | |
| ' | 11 | 3-4 | 0-0 | 19 | 1.2-11. | 4.6' | Gray cmf SAND, little f subrounded Gravel, saturated, no odors. | 0.0 | |
| 8 | 11 | | | | | 5.2' | Gray mf ⁽⁺⁾ SAND, some(-) Peat, trace Silt, saturated, no odors. | 0.0 | |
| " | 9 | | | | | 6.0' | As above, saturated, no odors. | 0.0 | |
| 9 | 10 | S-5 | 8' - 10' | 24 | 1.5-ft. | 6.1' | Gray mf SAND, little(+) mf subrounded Gravel, saturated, no odors. | 0.0 | |
| " | 14 | 3-3 | 0 - 10 | 24 | 1.5-10. | 6.3' | Gray f SAND, saturated, no odors. | 0.0 | |
| 10 | - 15 | | | | | | Grades To | 0.0 |] |
| '0 | 6 | | | | | | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 11 | 6 | S-6 | 10' - 12' | 21 | 1.3-ft. | 10.0' | As above with trace f subrounded Gravel from 10.4-10.6-ft., saturated, no odors. | 0.0 | |
| '' | 15_ | 3-0 | 10 - 12 | 21 | 1.5-11. | 10.9' | Gray f SAND, saturated, no odors. | 0.0 | |
| 12 | 24 | | | | | | Grades To | 0.0 | |
| '2 | 2 | | | | | | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 13 | 7 | S-7 | 12' - 14' | 32 | 1.6-ft. | 12.0' | As above, saturated, no odors. | 0.0 | |
| ' | 25 | 0-, | 12 - 17 | J 22 | 1.0-16. | | Grades To | 0.0 | |
| 14 | 27 | | | | | | Gray mf ⁺⁾ SAND, saturated, no odors. | 0.0 | |
| '- | 2 | | | | | 12.6' | Gray c ⁽⁺⁾ mf to m ⁽⁺⁾ f SAND, some mf subrounded Gravel, saturated, no odors. | 0.0 | |
| 15 | 3 | S-8 | 14' - 16' | 6 | 1.1-ft. | 14.0' | Gray mf SAND, little(-) m ⁽⁺⁾ f subrounded to rounded Gravel, saturated, no odors. | 0.0 | |
| '3 | 3 | U-U | 14 - 10 | | 1.1-11. | | Grades To | 0.0 | |
| 16 | 2 | | | | | 14.8' | Gray f SAND, trace(+) Silt with trace Peat from 15.0-15.1-ft., saturated, no odors. | 0.0 | |
| | LEGEND | | | | | | Bottom of Boring @ 16.0-feet BGS | | |

<u>LEGEND</u>

S - SPLIT SPOON SOIL SAMPLE

C - ROCK CORE SAMPLE

U - UNDISTURBED SOIL SAMPLE

NOTES: Originally logged as boring PB-3

Native soil encountered @ 1.4-ft.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING # **BS-15**

PROJECT Remedial Investigation Proposed Port Marina: Port of Rochester Rochester, New York

BS-16 BORING SHEET JOB#

1 OF 1 206377 Phase 2t

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

C. Stiles

GROUND SURFACE ELEVATION START DATE 07-Nov-06

BORING LOCATION

END DATE

DATUM 07-Nov-06

CHKD. BY:

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

LABELLA REPRESENTATIVE:

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| | WATER LEVEL DATA | | | | | | | | | | | | |
|------|------------------|-------|--------|---------|--|--|--|--|--|--|--|--|--|
| DATE | TIME | WATER | CASING | REMARKS | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| E | = | | | SAM | MPLE | | (Feet) | SAMPLE DESCRIPTION | PID READINGS | N O T |
|---|------------------------------------|------------------|----|----------------|--------------------|--------------------|----------------------|--|------------------|-------------|
| 7 | 1 | OWS N | 0. | DEPTH (FT.) | N-VALUE /RQD(%) | RECOVERY (FEET) | DEPTH (Feet) | | | E S |
| | 1 | 3 6 9 9 | -1 | 0' - 2' | 15 | 1.4-ft. | 0.0' | Topsoil Dark brown f SAND, little(-) Silt, trace f subrounded Gravel, organics present (roots, root traces, humus), damp, no odors. Fill Material Containing Slag | 0.0 | |
| | 3 | 7 5 3 3 | -2 | 2' - 4' | 8 | <0.1-ft. | | Brown and grayish-green cmf ⁺ SAND, some cmf angular to subangular Gravel (Incl. Slag w/ trace Cinders), moist, no odors. 1-Piece blue-green Slag). | Not Available | |
| | 5 | 1 1 2 3 | -3 | 4' - 6' | 3 | 1.2-ft. | 4.0' | Light brown mf ⁽⁺⁾ SAND, trace(+) mf angular to subrounded Gravel (Incl. blue- green Slag (~2%)), damp to wet, no odors. | 0.1 | |
| | 7 | 2 | -4 | 6' - 8' | 4 | 1.4-ft. | 6.0' 6.7' 7.0' | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits Brown mf SAND, saturated, no odors. Grayish-brown Clayey SILT, trace vf Sand, trace(-) f Gravel, saturated, no odors. Grayish-brown cm ⁽⁺⁾ f SAND, saturated, no odors. | 0.0 | |
| | 9 | 1 | -5 | 8' - 10' | 4 | 0.8-ft. | 8.0' | Dark grayish-brown mf SAND, little(-) Clayey Silt, trace f subrounded Gravel, saturated, no odors. | 0.0 | |
| 1 | 1 | 2 3 4 5 | -6 | 10' - 12' | 7 | 0.9-ft. | 10.0' | Dark gray cm ⁽⁺⁾ f SAND, little(+) mf subrounded Gravel, trace Silt, trace(-) Peat, saturated, no odors. | 0.0 | |
| 1 | 3 | 4 8 9 9 | -7 | 12' - 14' | 17 | 1.0-ft. | 12.7' | Dark gray mf SAND, saturated, no odors. Dark gray cmf SAND, saturated, no odors. Dark gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 1 | 5 | 2 2 3 6 | -8 | 14' - 16' | 5 | 1.4-ft. | 14.0' | As above, saturated, no odors. Bottom of Boring @ 16.0-feet BGS | 0.0 | |
| | LEGEND S - SPLIT SPOON SOIL SAMPLE | | | | | | NOT | TES: Originally logged as boring PB-4 Native soil encountered between 6.9 & 8.0-ft. | 1 | |

- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT Remedial Investigation Proposed Port Marina: Port of Rochester Rochester, New York

BS-17 BORING SHEET 1 OF 1 JOB#

206377 Phase 2t

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

START DATE 06-Nov-06 END DATE

06-Nov-06 WATER LEVEL DATA

CHKD. BY:

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID

DATE TIME WATER CASING **REMARKS**

| | | | | | | | | | L | | | 1 | | |
|-----|---------|-------|------------|-------------|----------------|---------|--------------------------------------|--------------------|---------------|-------------------------|------------|-----|----------|-----|
| OVE | RBURD | EN SA | AMPLING ME | ETHOD | 2" x 2' Split- | spoon v | v/140# Hammer | | | | | | | |
| ROC | K DRILI | ING N | METHOD | Not Applica | ble | | | | | | | | , | |
| D | | | | | | | | | | | | | | N |
| E | | | SAI | MPLE | | eet) | SAMP | SAMPLE DESCRIPTION | | PID | 0 | | | |
| Р | | | | | | H) H | | | | | | | READINGS | Т |
| T | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | I L | | | | | | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | DEP | | | | | | | | s |
| | 7 | | | | | | | Topsoil | <u> </u> | | | | 0.2 | |
| 1 | 15 | S-1 | 0' - 2' | 28 | 1.5-ft. | 0.0' | Dark bown f SAND, little Silt, orgar | nics presen | ıt (root | s, root trace | es, humus) | , | 0.2 | |
| ' | 13 | • | ٠ <i>-</i> | 20 | 1.0 16. | | damp, no odors. | | | | | | 0.3 | |
| 2 | 39 | | | | | | Fill Mater | rial Conta | <u>aininc</u> | Slag | | | 0.5 | |
| - | 10 | | | | | 0.3' | Brown and gray cmf angular to sub | oangular G | RAVE | L and cm ⁽⁺⁾ | f SAND (In | cl. | 0.1 | |
| | | | | i | 1 | | 1 | | | | | | 1 0.1 | 1 1 |

| 1 | L | | | | | | _ | | KEADINGS | į I |
|---|-----|---------------------|-----|-----------|---------|----------|--------------|--|----------|-----|
| 1 | - | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH | | | E |
| H | 1 | / 6" | | (FT.) | /RQD(%) | (FEET) | DE | | | s |
| | 1 - | 7 15 13 39 | S-1 | 0' - 2' | 28 | 1.5-ft. | 0.0' | Topsoil Dark bown f SAND, little Silt, organics present (roots, root traces, humus), damp, no odors. Fill Material Containing Slag | 0.2 | |
| | 3 | 10 11 | S-2 | 2' - 4' | 24 | 1.4-ft. | | Brown and gray cmf angular to subangular GRAVEL and cm ⁽⁺⁾ f SAND (Incl. Foundry Sand and Slag w/ apparent Beach Sand), damp, no odors. | 0.1 | |
| | 4 | 13 13 | | | | | 2.0' | As above, damp, no odors. Fill Material | 0.0 | |
| | | 3 | 0.0 | | 40 | | 2.3' 3.1' | Brown mf ⁽⁺⁾ SAND, damp, no odors. Grades To | 0.0 | |
| | 5 - | 7 4 | S-3 | 4' - 6' | 10 | 1.1-ft. | 4.0' | Brown SILT, little(+) mf subrounded Gravel, trace cmf Sand, damp, no odors. Brown mf ⁽⁺⁾ SAND (Incl Brick fragments), damp to wet, no odors. | 0.1 | |
| | 7 | 2 | S-4 | 6' - 8' | 4 | 0.9-ft. | 4.6' | WOOD, very slight creosote odor. Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.0 | |
| | 8 | 2 | 0-4 | | 4 | 0.9-11. | 6.0' | Gray cmf SAND, wet to saturated @ ~6.4-ft., no odors Grades To | 0.0 | |
| | 9 | 2 2 2 2 | S-5 | 8' - 10' | 4 | 0.9-ft. | 8.0' 8.8' | Gray f SAND, trace(-) Silt, saturated, no odors. Gray mf ⁽⁻⁾ SAND, saturated, no odors. Gray SILT, trace vf Sand, saturated, no odors. | 0.0 | |
| 1 | 1 - | 3 5 7 8 | S-6 | 10' - 12' | 12 | 0.9-ft. | 10.0' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.1 | |
| 1 | 3 - | 9 17 19 20 | S-7 | 12' - 14' | 36 | 1.5-ft. | | As above, saturated, no odors. Gray mf SAND, little(+) cmf subrounded Gravel, saturated, no odors. | 0.1 | |
| | 5 | 2 2 5 | S-8 | 14' - 16' | 7 | 1.3-ft. | 14.0' | Gray f to vf SAND, trace Silt, trace(-) Peat fragments. | 0.0 | |
| 1 | 6 | -5 | | | | | | Bottom of Boring @ 16 0-feet BGS | 0.0 | |

LEGEND

NOTES: Originally logged as boring PB-5

Bottom of Boring @ 16.0-feet BGS

Native soil encountered between 3.4 & 4.0-ft.

S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

16 5

BORING #

PROJECT Remedial Investigation Proposed Port Marina: Port of Rochester

Rochester, New York

BORING SHEET JOB#

CHKD. BY:

1 OF 1 206377 Phase 2t

BS-18

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

START DATE 07-Nov-06 END DATE

07-Nov-06 WATER LEVEL DATA

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

ROCK DRILLING METHOD

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

Not Applicable

| DATE | TIME | WATER | CASING | REMARKS |
|------|------|-------|--------|---------|
| | | | | |
| | | | | |
| | | | | |

| D | | | | | | | | | N |
|----|------------------|-----|-----------|---|----------|--------------|--|----------|----------|
| E | | | SAI | MPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID | 0 |
| P | | | | | | <u> </u> | | READINGS | Т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | F | · | • | E |
| H | / 6" | | (FT.) | /RQD(%) | (FEET) | | | | S |
| | 12 | | | | | | Fill Material | 0.1 | |
| 1 | 11 | S-1 | 0' - 2' | 21 | 1.5-ft. | 0.0' | Gray cmf angular to subangular GRAVEL and cm ⁽⁺⁾ f SAND (Incl. Milled Asphalt), | | |
| | 10 | | | | | | moist, no odors. | 0.4 | |
| 2 | 25 | | | | | 0 71 | Fill Material Containing Slag | | |
| | 25 | | | | | 0.7' | Deep brown mf ⁺⁾ SAND, little(-) mf angular Gravel (Incl. Foundry Sand and blue- | 1.3 | |
| 3 | 30 | S-2 | 2' - 4' | 52 | 1.4-ft. | | green Slag), moist to damp, no odors. | | |
| | 22 | | | | | 2.0' | Greenish-gray and brown cmf subangular to angular GRAVEL, some(-) cmf Sand, | 1.7 | |
| 4 | 20 | | | -,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | trace Silt (Incl. greenish-gray Slag, with Ash & Cinders), slight H ₂ S odor. | | |
| | 4 | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.4 | |
| 5 | 6 | S-3 | 4' - 6' | 10 | 1.3-ft. | 4.0' | Grayish-brown to gray SILT, some(-) vf Sand, wet to saturated @ ~4.7-ft., slight | | |
| | 4 | | | | | | H ₂ S Odor. | 0.0 | |
| 6 | 3 | | | | | 0.01 | A | | |
| | 3 | | | | | 6.0' | As above, saturated, no odors. | 0.0 | |
| 7 | 4 | S-4 | 6' - 8' | 9 | 1.2-ft. | 6.2' | Gray cmf SAND, trace(+) mf subrounded Gravel, saturated, no odors. | | |
| | 5 | | | | | | Grades To | 0.0 | |
| 8 | 6 | | | | | 0.01 | Gray mf SAND, saturated, no odors. | | |
| | 2 | | | | | 8.0' | Gray mf SAND, trace(-) f subrounded Gravel, saturated, very slight H ₂ S odor. | 3.2 | |
| 9 | 5 | S-5 | 8' - 10' | 15 | 1.0-ft. | | | | |
| | 10 | | | | | | | 2.1 | |
| 10 | 11 | | | | | 40.01 | (t) 24 NP (1 1 N 1 5 2 2 2 4 1 N 2 4 2 4 4 1 N 2 4 2 4 4 1 N 2 4 2 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 1 N 2 4 4 4 1 N 2 4 4 4 1 N 2 4 4 1 | | |
| | 13 | | | | | 10.0 | Gray mf ⁽⁺⁾ SAND (Incl. Wood fragments), saturated, H ₂ S odor. | 2.7 | - |
| 11 | 10 | S-6 | 10' - 12' | 23 | 0.9-ft. | | · | | |
| | 13 15 | | | | | | | 2.3 | |
| 12 | 5 | | | | <u> </u> | 12.0 | As above, saturated, no odors. | | |
| | | | | | | 12.0 | Grades To | 0.0 | |
| 13 | 6 | S-7 | 12' - 14' | 12 | 0.7-ft. | c | Gray f SAND, trace(-) Silt, saturated, no odors. | | |
| | 6 | | | | | | Olay 1 Onive, trace(-) oiit, saturated, no odols. | | |
| 14 | 12 5 | | | | | 14.0' | Gray f-vf SAND, trace Silt, saturated, no odors. | | |
| | 0 | | | | | | Gray Clayey SILT, trace(-) Peat, saturated, no odors. | 0.0 | |
| 15 | 2 | S-8 | 14' - 16' | 3 | 1.1-ft. | 14.9 | John Salvey Oil 1, Hadel-71 earl Salurated, 110 outris. | | |
| 16 | | | | | | | | 0.0 | |
| 10 | | | LEGEND | | <u> </u> | | Bottom of Boring @ 16.0-feet BGS | | \vdash |
| 1 | | | FFREIND | | | l | BULLUTTI OF BUTTING WE TO U-FEEL BUS | | - 1 |

Native soil encountered between 3.4 & 4.0-ft.

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

NOTES: Originally logged as boring PB-6

C - ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET JOB#

1 OF 1 206377 Phase 2t

BS-19

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co. DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) **BORING LOCATION**

GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 07-Nov-06 END DATE

07-Nov-06

TYPE OF DRILL RIG: AUGER SIZE AND TYPE CME Model 75 Truck-mounted Rotary Drill Rig

4.25-Inch ID

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

OVERBURDEN SAMPLING METHOD

| | WATE | ER LEVEL I | DATA | |
|------|------|------------|--------|---------|
| DATE | TIME | WATER | CASING | REMARKS |
| | | | | |
| | | | | |

| D | | | | | | | | | N |
|-----|---------|-------|------------|---------|----------|--------------|--|----------|-----|
| E | | | SAI | MPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID | 0 |
| P | | | | | , | H.) | | READINGS | Т |
| T | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | FPT | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | <u> </u> | | | S |
| | 60 | | | | | | <u>Fill Material</u> | 0.2 | |
| 1 | 27 | S-1 | 0' - 2' | 47 | 1.6-ft. | 0.0' | Asphalt Pavement - Not sampled. | | |
| | 20 | | | | | 0.5' | Gray cm ⁽⁺⁾ f angular to subangular GRAVEL and cmf ⁽⁺⁾ SAND, slightly moist, no | 0.2 | |
| 2 | 20 | | | | | | odors. | | |
| | 14 | | | | | 4.01 | Fill Material Containing Slag | 0.0 | |
| 3 | - 8 | S-2 | 2' - 4' | 16 | 1.2-ft. | 1.0' | Dark brown mf GRAVEL and SILT, trace f Sand (incl. blue-green Slag), moist, no | | |
| | 8 | | | | | | odors. Fill Material | 0.0 | |
| 4 | 8 | | | | | 1.3' | | | |
| | 2 | | | | | | Brown mf SAND, moist, no odors. Deep brown m ⁽⁺⁾ f SAND and cmf subrounded Gravel (Incl. Foundry Sand), moist, | 0.0 | |
| 5 | 3 | S-3 | 4' - 6' | 5 | 1.5-ft. | 2.0 | no odors. | | |
| | 3 | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.0 | |
| 6 | 2 | | | | | 2.4' | Dark brownish-gray SILT, little(-) mf ⁽⁺⁾ subrounded Gravel, damp, no odors. | | |
| | 6 | | | | | 2.4 | Grades To | 1.0 | |
| 7 | 10 | S-4 | 6' - 8' | 16 | 1.2-ft. | | Brown SILT, trace vf Sand, damp, no odors. | | |
| | 10 | | | | | 4.0' | As above, wet, H ₂ S odor. | 0.3 | |
| 8 | 3 | | | | | 7.0 | Grades To | | |
| | 9 | | | | | | Dark grayish-brown Clayey SILT, wet to saturated @ ~4.8-ft., H ₂ S odor. | 0.0 | |
| 9 | 10 | S-5 | 8' - 10' | 19 | 1.1-ft. | 6.0' | Gray mf SAND, saturated, no odors. | | |
| | 12 | | | | | 6.4' | Gray mf SAND, some(-) mf subrounded Gravel, saturated, no odors. | 0.0 | |
| 10 | 1 | | | | | 6.7' | Gray mf SAND, saturated, no odors. | | |
| | 3 | | | | | 8.0' | As above, saturated, no odors. | 0.0 | |
| 11 | 13 | S-6 | 10' - 12' | 16 | 1.2-ft. | | Gray mf ⁽⁺⁾ SAND, trace f subrounded Gravel, saturated, very slight H ₂ S odor. | | |
| 1 | 16 | | | | | | | 0.0 | |
| 12 | 1 | | | | | 12.0' | As above, saturated, no odors. | | 1 1 |
| 1 | 2 | 0 7 | 401 441 | _ | 0.05 | 12.5' | Gray mf SAND, little(+) f subrounded to subangular Gravel, saturated, no odors. | 0.0 | |
| 13 | 3 | S-7 | 12' - 14' | 5 | 0.8-ft. | | | | |
| ۱., | 5 | | | | | | | 0.0 | |
| 14 | 1 | | | | | 14.0' | As above, saturated, no odors. | | |
| 1,5 | 2 | 0.0 | 4.41 4.61 | _ | 4 4 6 | 14.5' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | 1 1 |
| 15 | 3 | S-8 | 14' - 16' | 5 | 1.4-ft. | | Gray Clayey SILT, trace(+) vf Sand, saturated, no odors. | | |
| 16 | 2 | | | | | | | 0.0 | |
| | | | LEGEND | | | | Bottom of Boring @ 16.0-feet BGS | | |
| | S - SPI | | OON SOIL S | SAMPLE | | NOT | ES: Originally logged as boring PB-7 | | |
| | | | IRBED SOIL | | | | Native soil encountered @ 2.4-ft. | | |
| | C-RO | ск сс | ORE SAMPLI | Ē | | | • | | |
| GEN | EDAL N | OTES | | | | | | | |

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

BORING

BS-20 1 OF 1

SHEET JOB#

206377 Phase 2t

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 07-Nov-06

END DATE

07-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| | | WATE | R LEVEL I | DATA | |
|---|------|--|-----------|--------|---------|
| İ | DATE | TIME | WATER | CASING | REMARKS |
| | | | | | |
| | | | | | |
| İ | | | | | |

| ROC | K DRILI | ING I | METHOD | Not Applica | ble | · | T | | | | | | | \blacksquare |
|-----|---------|-------|-----------|-------------|----------|--------------|---|----------------|---------|--------------|-----------------|-----------|----------|----------------|
| D | | | | | | | | | | | | | | N |
| E | | | SA | MPLE | | et) | SAMP | LE DESCF | RIPTIO | N | | | PID | 0 |
| Р | | | | | | F) | | | | | | | READINGS | T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | | | | | | E |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | DE | | | | | | | | s |
| | 6 | | | | | | | <u>Topsoil</u> | l | | | | 0.2 | |
| 1 | 15 | S-1 | 0' - 2' | 27 | 1.5-ft. | 0.0' | Dark brown f SAND, little Silt, trace | e(+) f subro | ounded | to subang | gular Grave | əl, | V.E | |
| ' | 12 | 0-1 | 0 - 2 | 21 | 1.5-11. | | organics present (roots, root traces | s, humus), | damp, | no odors. | | | 1.8 | |
| 2 | 12 | | <u>.</u> | | | | Fill Mater | ial Conta | aining | Slag | | | | |
| - | 9 | | | | | 0.3' | Brown and gray cmf SAND, some(| -) cmf angı | ular to | subangula | ır Gravel, t | race(-) | 0.1 | |
| 3 | 4 | S-2 | 2' - 4' | 9 | 1.5-ft. | | Silt (Incl. blue-green and gray Slag | ı, Asphalt a | and Asi | n), moist, r | no odors. | | | |
| | 5 | 02 | | | 1.5 11. | 2.0' | Dark brown to brown cmf SAND, li | ttle(+) mf s | ubang | ular to sub | rounded G | iravel, | 0.1 | |
| 4 | 4 | | | | | | (Incl. Slag, Cinders, Ash and Foun | dry Sand), | damp | to wet, no | odors. | | | |
| • | 2 | | | | | | Mixed Lacustrine (Bea | ich) & All | luvial | (Deltaic) | <u>Deposi</u> i | <u>ts</u> | 0.0 | |
| 5 | 3 | S-3 | 4' - 6' | 5 | 1.0-ft. | 3.0' | Dark gray SILT, trace(-) vf Sand, tr | ace(-) f Gr | avel, w | et no odo | rs. | | | |
| | 2 | | , , | | 1.0 1 | | Grades To | | | | | | | |
| 6 | 2 | | | | | | Gray SILT, trace(+) vf Sand, wet, r | no odors. | | | | | | |
| " | 2 | | | : | | 4.0' | Grayish-brown Clayey SILT, wet to | saturated | @ ~4. | 5-ft., no o | dors. | | 0.4 | |
| 7 | 3 | S-4 | 6' - 8' | 6 | 1.3-ft. | 4.9' | Gray cmf SAND, saturated, no odd | ors. | | | | | | |
| ' | 3 | 0 1 | | | 1.0 1 | 6.0' | Gray cmf SAND, little(-) f subround | | | | | | 0.2 | |
| 8 | 4 | | ******* | | | 6.2' | Gray mf ⁽⁺⁾ to f SAND with thin laye | r of Peat (< | <0.01-f | t. thick) @ | 7.2-ft., sat | turated, | | |
| | 3 | | | | | | very slight H ² S odor. | | | | | | 0.1 | |
| 9 | 7 | S-5 | 8' - 10' | 19 | 1.1-ft. | 8.0' | As above, saturated, no odors. | | | | | | | |
| | 12 | | 0 .0 | | ''' ''' | 8.6' | Gray cmf SAND, some(+) cmf sub | rounded G | ravel, | saturated, | no odors. | | 0.1 | |
| 10 | 15 | | | | | | | | | | | | |] |
| | 12 | | | | | 10.0' | Gray mf ⁽⁺⁾ SAND, saturated, no od | | | | | | 1.3 | |
| 11 | 7 | S-6 | 10' - 12' | 27 | 1.4-ft. | 10.6' | Gray mf ⁽⁺⁾ SAND, some cmf subro | | vel, sa | turated, no | odors. | | | |
| | 20 | | | | | 11.0' | Gray mf ⁽⁺⁾ SAND, saturated, no od | ors. | | | | | 0.1 | |
| 12 | 20 | | | | | | | | | | | | | |
| - | 12 | | | | | 12.0' | Gray f SAND w/ layer of gray cmf s | SAND from | 13.11 | o 13.2-ft., | saturated, | no | 0.1 | |
| 13 | 17 | S-7 | 12' - 14' | 37 | 1.5-ft. | | odors. | | | | | | | |
| | 20 | | | • | | | Grades To | | | | | | 0.0 | |
| 14 | 21 | | | | | | Gray mf ⁽⁺⁾ SAND, saturated, no od | ors. | | | | | | |
| '' | 2 | | | | | į. | As above, saturated, no odors. | | | | | | 0.0 | |
| 15 | 2 | S-8 | 14' - 16' | 11 | 1.2-ft. | 14.8' | Gray cmf SAND and cmf subround | I to subang | gular G | RAVEL, s | aturated, n | o odors. | | |
| | 9 | | | '' | | | | | | | | | 0.1 | |
| 16 | 12 | | | | | | | | | | | | | Щ |
| | | | LEGEND | | | | Bottom of E | Boring @ 10 | 6.0-fee | t BGS | | | | |

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-8

Native soil encountered @ 3.0-ft.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

BORING

1 OF 1

SHEET

206377 Phase 21 JOB# CHKD. BY:

BS-21

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

WATER LEVEL DATA

LABELLA REPRESENTATIVE:

C. Stiles

CME Model 75 Truck-mounted Rotary Drill Rig

START DATE 08-Nov-06 END DATE

08-Nov-06

TYPE OF DRILL RIG:

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| DATE | TIME | WATER | CASING | REMARKS |
|------|------|-------|--------|---------|
| | | | | |
| | | | | |
| | | | | |

| 111 | | | | | 1 | | | T | \Box |
|-----|--------------|-----|-----------|---------|----------|--------------|--|----------|--------|
| D | | | | | | _ | | | N |
| E | | | SAI | MPLE | | eet) | SAMPLE DESCRIPTION | PID | 0 |
| Р | <u> </u> | | | 1 | | T. | | READINGS | T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | DE | AND THE RESERVE OF THE PROPERTY OF THE PROPERT | | s |
| | 13 | | | | | | Topsoil | 5.2 | |
| 1 | 15 | S-1 | 0' - 2' | 72 | 1.5-ft. | 0.0' | Brown f SAND, little Silt, trace mf ⁽⁺⁾ subrounded Gravel, organics present (roots, | | |
| | 57 | | | | | | root traces, humus, etc.), damp, no odors. | 3.9 | |
| 2 | 60 | | | | | | Fill Material | | |
| | 100/5" | | | | | 0.4' | Gray to black cmf angular GRAVEL, some(+) cmf Sand (Incl. Cinders and Ash), | 0.3 | |
| 3 | | S-2 | 2' - 4' | 0 | <0.1-ft. | | damp, no odors. | | |
| | | | | | | 2.0' | As above, damp, no odors. | | |
| 4 | | | | | | | Fill Material Containing Slag | | |
| | 4 | | | | | 4.0' | Blue-green cmf angular Gravel, some cmf Sand (All blue-green Slag), moist, no | 0.2 | |
| 5 | 7 | S-3 | 4' - 6' | 10 | 0.5-ft. | | | | |
| | 3 | | , , | ' | 0.0 1 | | | | |
| 6 | 10 | | | | | | | | |
| | 6 | | | | | 6.0' | As above, but now only ~80% Slag), damp to wet, no odors. | 0.4 | |
| 7 | 10 | S-4 | 6' - 8' | 21 | 0.4-ft. | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | |
| ' | 11 | 0 7 | | | 0.4 1 | 6.3' | Gray cmf SAND and mf subangular GRAVEL, saturated, no odors. | | |
| 8 | 11 | | | | | | | | |
| " | 3 | | | | | 8.0' | As above, saturated, no odors. | 0.0 | |
| 9 | 2 | S-5 | 8' - 10' | 3 | 0.25-ft. | | | | |
| ľ | 1 | | 0 10 | | 0.20 11. | | | | |
| 10 | 3 | | | | | | | | |
| " | 6 | | | | | 10.0' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.2 | |
| 11 | 8 | S-6 | 10' - 12' | 17 | 0.9-ft. | | | | |
| '' | 9 | 3-0 | 10 - 12 | '' | 0.5-11. | | | | |
| 12 | 8 | | | | | | | | |
| '* | 1 | | | | | 12.0' | As above, saturated, no odors. | 0.0 | |
| 13 | 4 | S-7 | 12' - 14' | 11 | 1.2-ft. | | | "" | |
| '3 | 7 | J-, | 12 " 14 | '' | 1.2-11. | | | | |
| 14 | 8 | | | | | | | | |
| '4 | 7 | | | | | 14.0' | Gray cmf subrounded to subangular GRAVEL and cmf SAND, saturated, no | 0.0 | |
| 15 | 26 | S-8 | 14' - 16' | 10 | 1.3-ft. | | odors. | 3.0 | |
| 15 | 14 | 3-0 | 14 - 10 | 40 | 1.3-11. | | | | |
| 16 | 8 | | | | | | Bottom of Boring @ 16.0-feet BGS | | |
| | | | LEGEND | | | NOT | ES: Originally logged as boring PB-9 | | |

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

Native soil encountered @ 6.3-ft.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BS-21 BORING #

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

BORING

JOB#

BS-22 1 OF 1

SHEET

206377 Phase 2t

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 06-Nov-06 END DATE

06-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| | WAIE | H LEVEL I | JAIA | |
|------|------|-----------|--------|---------|
| DATE | TIME | WATER | CASING | REMARKS |
| | | | | |
| | 1 1 | | | NEW |
| | | | | |

| ROO | N DRILL | JING I | /IETHUU | Not Applicat | Jie | | | | - |
|-----|---------|--------|---------------|--------------|----------|--------------|--|----------|---|
| D | | | | | | | | | N |
| E | | | SAI | MPLE | | et) | SAMPLE DESCRIPTION | PID | 0 |
| P | | | | | | Ē) | | READINGS | Т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | E |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | 8 | | | s |
| | 60 | | | | | | <u>Fill Material</u> | 0.1 | |
| 1 | 26 | S-1 | 0' - 2' | 42 | 1.5-ft. | 0.0' | Asphalt Pavement - Not sampled. | | |
| ' | 16 | ٠. | _ | | | 0.5' | Gray cmf angular GRAVEL and cmf SAND, trace Silt, slightly moist, no odors. | 0.6 | |
| 2 | 20 | | | | | | Fill Material Containing Slag | | |
| _ | 26 | | | | | 1.2' | Brown cmf SAND, little(-) f angular Gravel (Incl. Foundry Sand and Slag), moist, | 8.2 | |
| 3 | 14 | S-2 | 2' - 4' | 23 | 1.0-ft. | | no odors. | | |
| | 9 | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | |
| 4 | 9 | | | | | | Dark brown SILT and f SAND, trace(-) f Gravel, damp, no odors. | | |
| | 3 | | | | | | Brown mf SAND, moist, no odors. | | |
| 5 | 6 | S-3 | 4' - 6' | 9 | <0.1-ft. | 2.0' | Deep brown m ⁽⁺⁾ f SAND and cmf subrounded Gravel (Incl. Foundry Sand), moist, | | |
| | 3 | | | | | | no odors. | | |
| 6 | 4 | | | | | | Grades To | | |
| | 3 | | | | | | Gray SILT, little(-) f-vf Sand (Incl. Peat fragments), damp, no odors. | 0.2 | |
| 7 | 4 | S-4 | 6' - 8' | 11 | 1.0-ft. | | Gray mf ⁽⁺⁾ SAND, damp, no odors. | | |
| | 7 | | | | | 4.0' | Gray to grayish-brown f SAND, trace(+) Peat, trace Silt, damp, no odors. | | |
| 8 | 9 | | | | | 4.3' | Gray f SAND, wet to saturated @ ~4.5-ft., no odors. | | |
| | 2 | | | | | 4.6' | Gray cmf SAND, little f subrounded Gravel, saturated, no odors. | 0.3 | |
| 9 | 8 | S-5 | 8' - 10' | 17 | 0.7-ft. | 5.2' | Gray mf ⁽⁺⁾ SAND, some(-) Peat, trace Silt, saturated, no odors. | | : |
| | 9 | | | | | 6.1' | Gray mf SAND, little(+) mf subrounded Gravel, saturated, no odors. | | |
| 10 | 8 | | | | | 6.3' | Gray f SAND, saturated, no odors. | | |
| | 4 | | | | | | Grades To | 4.7 | |
| 11 | 4 | S-6 | 10' - 12' | 15 | 1.3-ft. | | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | | |
| | 11 | | | | | : | As above with trace f subrounded Gravel from 10.4-10.6-ft., saturated, no odors. | 1.9 | |
| 12 | 11 | | | | | 10.9' | Gray f SAND, saturated, no odors. | <u> </u> | ł |
| | 2 | | | | | | Grades To | 0.4 | |
| 13 | 6 | S-7 | 12' - 14' | 29 | 0.7-ft. | | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | | |
| | 23 | | | | | 12.6' | Gray c ⁽⁺⁾ mf to m ⁽⁺⁾ f SAND, some mf subrounded Gravel, saturated, no odors. | | |
| 14 | 9 | | | | | 4,00 | (1) | | 1 |
| | WOH | | | | | 14.0' | Gray mf SAND, little(-) m ⁽⁺⁾ f subrounded to rounded Gravel, saturated, no odors. | 0.0 | |
| 15 | WOH | S-8 | 14' - 16' | 1 | 0.8-ft. | 14.8' | Gray f SAND, trace(+) Silt with trace Peat from 15.0-15.1-ft., saturated, no odors. | | |
| | 1 | | | | | | | | |
| 16 | 1 | | | | <u> </u> | | D (D.) . 0 (100 () 1000 | | Щ |
|] | | | <u>LEGEND</u> | | | | Bottom of Boring @ 16.0-feet BGS | | |

S - SPLIT SPOON SOIL SAMPLE

C - ROCK CORE SAMPLE

U - UNDISTURBED SOIL SAMPLE

NOTES: Originally logged as boring PB-10

WOH denotes Weight of Hammer.

Native soil encountered @ 1.4-ft.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING #

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

DATE

BORING SHEET JOB#

1 OF 1

BS-23

REMARKS

206377 Phase 2t

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

GROUND SURFACE ELEVATION

DATUM

TIME WATER CASING

WATER LEVEL DATA

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 08-Nov-06 END DATE

08-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

4.25-inch ID

AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| | | | AMPLING MI | | • | spoon | w/140# Hammer | | | | | | | |
|----|---------|------|--------------|-------------|----------|--------------|---|---|---------|---------------|------------|-----------|----------|---|
| | K DRILI | LING | METHOD | Not Applica | ble | | | | | | <u> </u> | <u> </u> | T | - |
| D | | | | | | | | | | | | | | N |
| E | | | SA | MPLE | | eet) | SAMP | LE DESCRI | IPTIO | N | | | PID | 0 |
| Р | | | - | | T | <u>г</u> | | | | | | | READINGS | Т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | | | | | | E |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | ä | _ | | | | | | | S |
| | 40 | | | | | | - | ill Materia | al | | | | 0.2 | |
| 1 | 30 | S-1 | 0' - 2' | 45 | 1.5-ft. | 0.0' | Asphalt Pavement - Not sampled. | | | | | | | |
| 1 | 15 | | | - | | 0.5' | Gray cmf angular GRAVEL and cm | | | | | | 3.1 | |
| 2 | 17 | | | | | 4.00 | Fill Mater | | _ | _ | | | | |
| | 7 | | | | | 1.0' | Tan cmf SAND, little mf ⁽⁺⁾ angular (| 3ravel (Incl. | . Botto | om Ash w/ | trace Slag |), moist, | 2.1 | |
| 3 | 14 | S-2 | 2' - 4' | 24 | 1.2-ft. | 0.01 | no odors. | | | | | | | |
| | 10 | | | | | 2.0' | As above, damp, no odors. Blue-green c ⁽⁺⁾ mf SAND, little(+) m | r(+) | | -1 /11 1-1 | 01 | | 0.7 | |
| 4 | 10 | | | | | 2.3' | | n'' angular | Grave | el (Incl. blu | e-green Si | ag w/ | | |
| | 2 | | | | | | Bottom Ash), damp, no odors. Mixed Lacustrine (Bea | ob\ 9. Allı | nrial | (Doltaio) | Donocit | • | 0.0 | |
| 5 | 7 | S-3 | 4' - 6' | 21 | 1.1-ft. | 2.8' | Brown m ⁽⁺⁾ f Sand, trace(+) mf subre | - | | - | - | 5 | | |
| | 14 | | | | | 4.0' | Dark brown f-vf SAND, little Clayey | | | • | uors. | | 0.0 | |
| 6 | 3 | | | | | 4.1' | Gray mf SAND, some(-) cmf subro | | | | | | | |
| | 4 | | | | | 6.0' | Gray mf ⁽⁺⁾ SAND, saturated, no ode | | CI, W | st, 110 Ouois | ٠. | | 0.0 | |
| 7 | 3 | S-4 | 6' - 8' | 7 | 1.3-ft. | 6.7' | Gray mf ⁽⁺⁾ SAND, little(+) mf subro | | ol oo | turated no | odora | | | |
| | 3 | | | | | 7.1' | Gray mf ⁽⁺⁾ SAND, saturated, no ode | | ci, sa | iuraieu, no | ouois. | | 0.0 | |
| 8 | 4 | | | | | 8.0' | Gray mf SAND, little mf subrounder | | aturati | ed no odo | rs | | | |
| | 7 | | | | | 8.6' | Gray f SAND, saturated, no odors. | <i>a</i> G. G. G. G. G. G. G. G. G. G. G. G. G. | | ou, 110 ouc | .0. | | 0.0 | |
| 9 | 9 | S-5 | 8' - 10' | 16 | 1.0-ft. | 0.0 | Grades To | | | | | | | |
| | 12 | | | | | | Gray mf ⁽⁺⁾ SAND, saturated, no ode | ors | | | | | 0.1 | |
| 10 | 4 | | | | | | Gray f-vf SAND, saturated, no odor | | | | | | | |
| | 4 | | | | | 10.0' | As above, saturated, no odors. | | | | | | 0.0 | |
| 11 | 8 | S-6 | 10' - 12' | 12 | 1.1-ft. | | , | | | | | | | |
| | 11 | | | | | | | | | | | | 0.0 | |
| 12 | 15 | | | | | | | | | | | | | |
| | 27 | | | | | 12.5' | Gray f-vf SAND, saturated, no odor | s. | | | | | 0.0 | |
| 13 | 28 | S-7 | 12' - 14' | 55 | 1.3-ft. | | Gray cmf SAND, trace f subrounde | | aturat | ed, no odo | rs. | | | |
| | 30 | | | | | | Grades To | - | | | | | 0.0 | |
| 14 | 13 | | | | | | Gray cmf ⁽⁺⁾ SAND, some cmf subro | unded Gra | vel, s | aturated, n | o odors. | | | |
| | 16 | | | | | | , | | | , | | | 0.0 | |
| 15 | 17 | S-8 | 14' - 16' | 33 | 0.9-ft. | | | | | | | | | |
| 16 | 19 | | | | | | Bottom of B | oring @ 16. | .0-fee | t BGS | | | - | |
| | | | LEGEND | | | NOT | ES: Originally logged as boring PB | ·11 | | | | | • | |

LEGEND

NOTES: Originally logged as boring PB-11

S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE Native soil encountered @ 2.8-ft.

C - ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

Associates, PC 300 STATE STREET, ROCHESTER, NEW YORK **ENVIRONMENTAL ENGINEERING CONSULTANTS**

PROJECT

DATE

Remedial Investigation Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET

CHKD. BY:

BS-24

REMARKS

1 OF 1

206377 Phase 2t JOB#

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) **GROUND SURFACE ELEVATION** DATUM

LABELLA REPRESENTATIVE:

C. Stiles

07-Nov-06 START DATE

END DATE 07-Nov-06

WATER LEVEL DATA TIME WATER CASING

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID OVEDDI IDDEN CAMBLING METHOD

2" v 2' Split-encon w/1/0# Hammor

| OVE | RBURD | EN S | AMPLING ME | ETHOD | 2" x 2' Split- | spoon v | n/140# Hammer | | | | | | | |
|-----|--------------|--------|------------|--------------|----------------|--------------|--|---------------|--------|--------------|--------------|-----------|--|----------|
| ROC | K DRILI | LING I | METHOD | Not Applical | ble | | | | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| D | | | | | | | | | | | | | | N |
| E | | | SA | MPLE | | eet) | SAMPI | LE DESCRI | IPTIC | N | | | PID | 0 |
| Р | ļ | | yazza | , | ,, | DEPTH (Feet) | | | | | | | READINGS | T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | PT | | | | | | | | E |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | DE | | | | | | | | s |
| | 2 | | | | | | | Topsoil | | | | | 0.0 | |
| 1 | 2 | S-1 | 0' - 2' | 4 | 1.3-ft. | 0.0' | Brown f SAND, little(-) Silt, trace f s | | Grav | el, organic | s present (| roots, | | |
| | 2 | | | | | | root traces, humus, etc.), damp, no | | | | | | 0.0 | |
| 2 | 4 | | | | | | | ill Materia | al | | | | | |
| | 6 | | | | | 0.2 | Tan mf ⁽⁺⁾ SAND, moist, no odors. | | | | | | 0.0 | |
| 3 | 5 | S-2 | 2' - 4' | 9 | 1.3-ft. | 0.5' | Dark brown cmf SAND, some(-) mg | | suba | ıngular Gra | vel (Incl. (| Cinders | | |
| | 4 | | | | | | with trace Ash), moist to damp, no | | | /m | | | 0.0 | |
| 4 | 4 | | | | | | Mixed Lacustrine (Bea | - | uvial | (Deltaic) | Deposit | <u>\$</u> | | |
| | 3 | | : | | | 2.0' | Tan mf ⁽⁺⁾ SAND, moist to damp, no | odors. | | | | | 0.0 | |
| 5 | 3 | S-3 | 4' - 6' | 5 | 1.0-ft. | | Grades To | | | | | | | |
| | 2 | | · | | | | Gray mf ⁽⁺⁾ SAND, damp, no odors v | with interva | l of G | ray f-vf SA | ND, trace S | Silt from | | |
| 6 | 5 | | | | | | 4.8 to 4.9-ft. BGS. | | | | | | | |
| | 9 | | | | | | As above, saturated, no odors. | | | | | | 0.0 | |
| 7 | 13 | S-4 | 6' - 8' | 26 | 1.4-ft. | 6.8' | Gray cmf SAND, some(+) cmf subr | ounded Gra | avei, | saturated, i | no odors. | | | |
| | 13 | | | | | | | | | | | | 0.0 | |
| 8 | 9 | | | | | 0.01 | (t) (24) (24) (24) | | | | | | | |
| | 2 | | | | | 8.0' | Gray mf ⁽⁺⁾ SAND thin Peat layer (~ | 0.01-π. tnici | к) @ | 8.9-π., sau | irated, no d | ogors. | 0.0 | |
| 9 | 6 | S-5 | 8' - 10' | 13 | 0.0-ft. | | : | | | | | | | |
| | 7 | | | | | | | | | | | | 0.0 | |
| 10 | 9 | | | | | 10.0' | As should partially an odoro | | | | | | | |
| | 5 | | | | | 10.0 | As above, saturated, no odors. | | | | | | 0.0 | |
| 11 | 6 9 | S-6 | 10' - 12' | 15 | 1.2-ft. | | Grades To | | | | | | | |
| | | | | | | | Grades 10 | | | | | | 0.0 | |
| 12 | 15 12 | | | | | | Gray f SAND, saturated, no odors. | | | | | | | |
| | | | | | | 12 01 | Gray cmf SAND, little(-) f subround | ed Gravel | eatur | ated no od | ore | | 0.0 | |
| 13 | 10 | S-7 | 12' - 14' | 20 | 1.0-ft. | | Gray f SAND with 1-piece of course | | | | | ıratod | | |
| | 7 | | | | | 13.2 | ino odors. | s Subiouilui | eu Gi | avei @ 14. | 7-leel, Sall | mateu, | 0.0 | |
| 14 | - | | | | | | no odois. | | | | | | | |
| | 1 12 | | | | | | | | | | | | 0.0 | |
| 15 | 12 10 | S-8 | 14' - 16' | 22 | 1.2-ft. | | | | | | | | | |
| 16 | 17 | | | | | | Bottom of B | orina @ 16 | O-fee | t BGS | | | 0.0 | |
| 10 | | | LEGEND | L | L | NOT | S: Originally logged as boring PB | | | | | | | <u> </u> |

LEGEND

NOTES: Originally logged as boring PB-12

S - SPLIT SPOON SOIL SAMPLE

Native soil encountered between 1.3 and 2.0-ft.

U - UNDISTURBED SOIL SAMPLE C - ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING # **BS-24**

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

DATE

BORING SHEET JOB#

1 OF 1

BS-25

REMARKS

206377 Phase 2t

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 08-Nov-06

END DATE

WATER LEVEL DATA TIME WATER CASING

08-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| | | | MPLING MI | | • | spoon v | v/140# Hammer | | | | | | | |
|-------------|--------------|--------|-----------|-------------|----------|--------------|---|--------------|-----------|------------|--------------|-----------|------------------|-------------|
| | K DRILL T | _ING I | METHOD | Not Applica | ble | · · · · · · | | | | | | l | Τ | Τ |
| D E P | | | SA | MPLE | | DEPTH (Feet) | SAMPI | LE DESCRI | PTION | ٧ | | | PID READINGS | N 0 T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | HTH | | | | | | | | Ε |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | <u> </u> | 11 - 14 - 14 - 15 - 10 - 10 - 10 - 10 - 10 - 10 - 10 | | | | | | | s |
| | 37 | | | | | | | ill Materia | al | | | | 0.3 | |
| 1 | 7 | S-1 | 0' - 2' | 21 | 1.5-ft. | 0.0 | Asphalt Pavement - Not sampled. | | | | | | | |
| i | 14 | | | | | 0.5' | Gray cmf angular GRAVEL, some(| | | | | | 0.6 | |
| 2 | 7 | | | | | 0.9' | Brown mf ⁽⁺⁾ SAND, some mf suban and Cinders), moist, no odors. | gular Grave | el (Incl. | . Foundry | sand, w/ tr | ace Ash | | |
| | 5 | | | | | | Fill Mater | ial Contair | nina | Slan | | | 0.2 | |
| 3 | 2 | S-2 | 2' - 4' | 6 | 1.2-ft. | 2.0' | Black and dark brown cmf SAND, I | | _ | _ | (Incl. Cind | ers Ash | | |
| | 2 | | | | | | and Slag), moist, no odors. | tuo(+) iii | angai | ai Giavei | (inci. Onia | cro, Adri | 0.1 | |
| 4 | 6 | | | | | | Mixed Lacustrine (Bea | ch) & Allu | ıvial (| (Deltaic) | Deposit | S. | | |
| _ | 8 | 0.0 | 41 01 | 40 | 440 | 2.3' | Brown mf ⁽⁺⁾ SAND, moist to damp, | | | , | • | | 0.1 | |
| 5 | 8 | S-3 | 4' - 6' | 16 | 1.1-ft. | 3.2' | Dark brown SILT, little(+) Peat, little | e f-vf Sand, | wet, n | o odors. | | | | |
| 6 | 7 | | | | | 4.0' | Gray cm ⁽⁺⁾ f SAND and cmf subrour | nded to suba | angula | ır GRAVEI | _, wet to sa | aturated | | |
| 0 | 6 | | | | | | @ ~7.0-ft., no odors. | | | | | | 0.0 | |
| 7 | 8 | S-4 | 6' - 8' | 14 | 1.3-ft. | 6.0' | As above, saturated, no odors. | | | | | | 0.0 | |
| • | 6 | ٠. | | 1.1 | 7.0 1 | | | | | | | | 0.0 | Ì |
| 8 | 10 | | | | | | 4.5 | | | | | | | |
| | 7 | | | | | 8.0' | Gray mf ⁽⁺⁾ SAND, saturated, no ode | ors. | | | | | 0.0 | |
| 9 | 18 | S-5 | 8' - 10' | 39 | 1.0-ft. | | | | | | | | | |
| | 21. | | | | | | | | | | | | | |
| 10 | 25 | | | | | 10.0' | No Recovery | | | | | | | ł |
| | 17 21 | | | | | 10.0 | No necovery | | | | | | Not Available | |
| 11 | 23 | S-6 | 10' - 12' | 44 | 1.1-ft. | | | | | | | | | |
| | 30 | | | | | | | | | | | | | |
| 12 | 15 | | | | | 12.0' | Gray cmf ⁽⁺⁾ SAND and cmf subrour | nded GRAVI | EL, sa | turated, n | o odors. | | | 1 |
| | 37 | | | | | | | | · | · | | | 0.0 | |
| 13 | 40 | S-7 | 12' - 14' | 77 | 1.3-ft. | | | | | | | | | |
| 4.4 | 42 | | | | | | | | | | | | | |
| 14 | 10 | | | | | 14.0' | Gray cmf ⁽⁺⁾ SAND, some(+) cmf su | brounded G | iravel, | saturated | , no odors. | | 0.0 | |
| 15 | 11 | S-8 | 14' - 16' | 24 | 0.9-ft. | | | | | | | | 0.0 | |
| 13 | 13 | Ų.0 | 17 10 | 24 | 0.3-11. | | | | | | | | 0.0 | |
| 16 | 5 | | | | | | Bottom of B | oring @ 16. | .0-feet | BGS | | | 0.0 | L |
| | | | LECEND | | | | Co. Originally language on basing DD | | | | | | | |

LEGEND

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-13

Native soil encountered @ 2.3-ft.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING # **BS-25**

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

DATE

BORING SHEET JOB#

CHKD. BY:

BS-26

1 OF 1

206377 Phase 2t

REMARKS

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

WATER LEVEL DATA

TIME WATER CASING

DATUM

START DATE 06-Nov-06 END DATE

06-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

C. Stiles

AUGER SIZE AND TYPE

LABELLA REPRESENTATIVE:

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| ROC | K DRILI | LING I | METHOD | Not Applicat | ole | | | | | | | | | | | |
|------------------|---------|---------------------------------|---|--------------|---------|--------------|--|--|----------|---------------------------|------|--------|---|----------|--|--|
| D Not Applicable | | | | | | | | | | | · | | t | | IN | |
| E | SAMPLE | | | | | | SAMPLE DI | DESCRIPTION | ON | | | | | PID | 0 | |
| P | | | | | | | | | | | | | | READINGS | з т | |
| Т | BLOWS | LOWS NO. DEPTH N-VALUE RECOVERY | | | | | | | | | | | | | E | |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | DEPTH (Feet) | | | | | | | | | s | |
| | 68 | | | | | | Fill M | Material | | | | | | 1.9 | | |
| 1 | 26 | S-1 | 0' - 2' | 48 | 1.4-ft | 0.0' 0.5' | Asphalt Pavement - Not sampled. | | | | 1.9 | | | | | |
| | 22 | | | | | | Gray cm ⁽⁺⁾ f angular to subangular GRA\ | GRAVEL, some(+) cmf Sand, slightly moist, no | | | 0.8 | | | | | |
| 2 | 20 |) | | | | | odors. | | | | | | | 0.0 |] | |
| - | 8 | | | | | | Fill Material C | Containin | g Slag | ļ | | | | 0.3 | | |
| 3 | 2 | 2 S-2 | 2' - 4' | 5 | 1.4-ft | 1.0' 2.0' | White crystalline Slag. | | | | | | | 0.0 | | |
| | 3 | 02 | | | | | | Material | | | | | | 0.2 | | |
| 4 | 8 | | | | | | Deep brown m ⁽⁺⁾ f SAND (Foundry Sand | | | | |] | | | | |
| | 12 | | | 9 | | | Fill Material C | | | | | | | 0.1 | | |
| 5 | 6 | S-3 | 4' - 6' | | 1.5-ft. | 2.9' | Brown mf ⁽⁺⁾ SAND, little (-) mf angular G | Gravel, (Inc | l. blue | olue green Slag), damp to | | | | | | |
| | 3 | | | | | | wet, no odors. | | | | | | | 0.1 | | |
| 6 | 3 | | | | | | Mixed Lacustrine (Beach) | & Alluvia | | | | | | 1 | | |
| | 3 | | | | | 4.0' | Gray SILT, little(-) vf Sand, wet, no odor | ors. | | | | | | 0.1 | | |
| 7 | 1 | S-4 | 6' - 8' | 2 | 1.2-ft. | 6.0' | Gray SILT & CLAY, wet, no odors. | | | | | | | | | |
| | 1 | | | | | 6.3' | PEAT, saturated, no odors. | | | | | | | 0.0 | | |
| 8 | 2 | | | • | | 6.9' | Gray mf SAND, saturated, no odors. | | | | | | | 4 | | |
| | 6 | |] | | | 8.0' | Gray cm ⁽⁺⁾ f SAND, some(+) cmf subrou | unded Grave | el, satu | rated | , no | odors. | • | 0.2 | | |
| 9 | 11 | S-5 | 8' - 10' | 22 | 0.9-ft. | 8.7' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | | | | | | | | | |
| | 11 | | | | | | | | | | | | | | | |
| 10 | 12 | | | | | | | | | | | | | | - | |
| | 3 | | | | | 10.0' | As above, saturated, no odors. | | | | | | | 0.1 | | |
| 11 | 3 | S-6 | 10' - 12' | 6 | 0.5-ft. | | Grades To | | | | | | | | | |
| | 3 | | | | | | Gray f SAND, trace Silt, saturated, no or | odors. | | | | | | | | |
| 12 | 3 | | | | | 40.01 | (4) | | | | | | | | - | |
| | 8 | | | | | 12.0 | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | od Orossol - | aturat- | d n | ~d~ | | | 0.0 | | |
| 13 | 8 | S-7 | 12' - 14' | 19 | 1.2-ft. | 12.7' | Gray mf SAND, some(+) mf subrounded | eu Gravei, Si | aturate | u, no | ouor | ა. | | | | |
| | 11 | | | | | | | | | | | | | 0.0 | | |
| 14 | 6 | | 14.0' Gray mf ⁽⁺⁾ SAND, saturated, no odors. | | | | - | | | | | | | | | |
| | 3 | | | 10 | 1.3-ft. | 14.0' | • | | | | | | | 0.0 | | |
| 15 | 4 | S-8 | 14' - 16' | | | | Grades To | no odero | | | | | | | | |
| 1.5 | 6 | | | | | | Gray vf SAND, trace(-) Silt, saturated, no Bottom of Boring | | ot PC | 2 | | | | 0.1 | | |
| 16 | 16 6 | | | | | | BOLLOTT OF BOTTING | | et DUC | , | | | | | ــــــــــــــــــــــــــــــــــــــ | |

LEGEND

NOTES: Originally logged as boring PB-14

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

Native soil encountered between 3.5 & 4.0-ft.

LBA

BS-26 BORING #

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

DATE

BORING SHEET

CHKD. BY:

1 OF 1

JOB#

206377 Phase 2t

BS-27

REMARKS

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 09-Nov-06

END DATE

WATER LEVEL DATA

TIME WATER CASING

09-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

4.25-Inch ID

AUGER SIZE AND TYPE

| OVE | RBURD | EN S | AMPLING ME | ETHOD | 2" x 2' Split- | spoon | w/140# Hammer | | |
|-------------------------------------|---------|---------------|---------------|-------------|----------------|--------------------------------|---|----------|---|
| ROCK DRILLING METHOD Not Applicable | | | | | | | | 1 | |
| D | | | | | | | | | N |
| E | | | SA | MPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID | |
| Р | | | | | T | Н (F | | READINGS | T |
| į. | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | ΞPΤ | | | E |
| H | / 6" | | (FT.) | /RQD(%) | (FEET) | <u>IO</u> | | | s |
| | 1 | | 0' - 2' | 6 | 1.4-ft | | Topsoil | 0.0 | |
| 1 | 2 | S-1 | | | | | Brown f SAND, trace(+) Silt, organics present (roots, root traces, humus), damp | | |
| | 4 | | | | | | to wet, no odors. | 0.0 | |
| 2 | 9 | | | | | | Fill Material Containing Slag Grayish-brown cmf ⁽⁺⁾ SAND, little mf angular Gravel, trace Silt (Incl. Slag, Ash | | ĺ |
| | | 11 12 9 | 2' - 4' | 21 | 1.4-ft | 2.0' | | 2.7 | |
| 3 | | | | | | | and Cinders), damp, no odors. As above, damp, no odors. | | |
| | | | | | | | As above, ualify, no odors. | 5.7 | |
| 4 | 3 | 12 | | | | 4.0' | As above, damp, no odors. | | |
| | 13 | | 3 4' - 6' | 21 | 1.5-ft. | | Deep brown m ⁽⁺⁾ f SAND, trace(+) mf angular to subangular Gravel (Incl. Foundry | 2.7 | |
| 5 | 8 | S-3 | | | | 7.7 | Sand & black metallic Slag), damp, no odors. | | |
| | 5 | 1 | | | | | σ,, μ, | 11.5 | |
| 6 | 9 | | | | | 6.0' | As above, but also includes Ash, damp, no odors. | | |
| | 12 | S-4 | 6' - 8' | 31 | 1.2-ft. | 6.6' | Fill Material | 7.2 | |
| 7 | 19 | | | | | | Gray cmf angular GRAVEL, some cmf Sand, damp, no odors. | | |
| | 20 | | | | | | Fill Material Containing Slag | 15.9 | |
| 8 | 8 11 | | | 25 | 0.2-ft. | 8.0' | Gray and greenish-gray cmf angular GRAVEL, little(+) cmf Sand (All Gray and | 0.4 | |
| | 15 | | 8' - 10' | | | | greenish-gray Slag), saturated, no odors. | 3.1 | |
| 9 | 10 | | | | | | | | |
| 10 | 4 | | | | | | | | |
| 10 | 4 | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 1.6 | |
| 11 | 11 8 S- | | 10' - 12' | 18 | 0.2-ft. | 10.0' | Black f SAND, some Silt, little(-) Peat, saturated, H ₂ S odor. | 1.6 | |
| '' | | 3-0 | | | 0.2-11. | | | | |
| 12 | 13 | | | | | | | | |
| '2 | 7 | | i-7 12' - 14' | 2' - 14' 18 | | 12.0' | Black mf SAND, some(-) cmf subrounded Gravel, saturated, H ₂ S odor. | 2.2 | |
| 13 | 8 | S-7 | | | 0.5-ft. | | | | |
| | 10 | 0, | 12 14 | | | | | | |
| 14 | 9 | | | | | | | | |
| ' | 4 | | | | 14.0' | As above, saturated, no odors. | 0.9 | | |
| 15 | 7 | S-8 | 14' - 16' | 17 | 1.1-ft. | | Grades To | | |
| | 10 | | | | | | Gray cmf SAND, some(+) cmf subrounded Gravel, saturated, no odors. | 0.3 | |
| 16 | 10 | | | | | | Bottom of Boring @ 16.0-feet BGS | | Щ |
| LEGEND | | | | | | NOTI | ES: Originally logged as boring PB-15 | | |

LEGEND

NOTES: Originally logged as boring PB-15

S - SPLIT SPOON SOIL SAMPLE

Native soil encountered between 8.2 & 10.0-ft. U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING # **BS-27**

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

DATE

BORING SHEET JOB#

BS-28 1 OF 1

206377 Phase 21

REMARKS

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

WATER CASING

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 08-Nov-06

END DATE

TIME

WATER LEVEL DATA

08-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

| OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer | | | | | | | | | | | MINISTER . | | | |
|--|-------------------------------|--------|-----------|--------------|----------|--------------|---|---|---------|--------------|----------------------|----------|----------|--------|
| ROC | K DRIL | LING I | METHOD | Not Applicat | ble | | | | | | | | | |
| D | | | | | | | | | | | | | | N |
| E | | | SA | MPLE | | eet) | SAMP | LE DESCR | IIPTIC | N | | | PID | 0 |
| P | | | | l | T | H. | | | | | | | READINGS | 1 1 |
| T | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | | | | | | E S |
| H | /6" 2 | | (FT.) | /RQD(%) | (FEET) | | | Topsoil | | | | | | 3 |
| | 3 | | | | | 0.0' | Brown f SAND, little(+) Clayey Silt, | - | | t (roots, ro | ot traces. h | numus). | 0.1 | |
| 1 | 9 | S-1 | 0, - 5, | 12 | 1.2-ft | 0.0 | damp, no odors. | organico p | | . (, | , | ,, | | |
| | 10 | | | | | | Fill Mater | ial Conta | ining | Slag | | | 0.1 | |
| 2 | 12 | | | | | 0.6' | Dark brown to black cmf ⁽⁺⁾ SAND, | some mf ar | ngular | to subang | ular Grave | l (Incl. | 0.9 | |
| 3 | 11 | S-2 | 2' - 4' | 23 | 1.4-ft | | Cinders with little Slag), damp, no | odors. | | | | | 0.9 | |
| " | 12 | 3-2 | 2 - 4 | 23 | 1.4-11 | 2.0' | Gray to brown cmf ⁽⁺⁾ SAND, little(+ |) mf angula | ar to s | ubangular | Gravel, tra | ce Silt | 0.2 | |
| 4 | 12 | | | | | | | cl. Cinders, Ash and Slag), damp, no odors. | | | | | | |
| ' | 11 | | | | | 4.0' | rick red, white and gray cmf ⁽⁺⁾ SAND, some mf subangular to angular Gravel, | | | | | | 2.1 | |
| 5 | 10 | S-3 | 4' - 6' | 23 | 1.4-ft | | trace Silt (Incl. red, white & gray SI | ag, Foundr | y San | d, Cinders | and Ash), | damp to | | |
| | wet, no odors. | | | | | | | | 0.4 | | | | | |
| 6 | 27 | | | | | | | | | - | | | | |
| | 72 | | | | | 6.0' | Blue-green and gray cmf angular (| | ome(+ | -) cmt Sand | d, (All blue | -green | 0.8 | |
| 7 | 13 | S-4 | 6' - 8' | 21 | 1.0-ft. | | and gray Slag), saturated, no odor | S. | | | | | | |
| | 8 | | | | | | | | | | | | | |
| 8 | 7 11 | | | | | 8 0' | as above but gray in color with gray Slag only, saturated, no odors. | | | | | | | 1 |
| | 5 | | | | | 0.0 | The above but gray in color with gra | y clay chily | , oata | ratou, 110 c | | | 0.5 | |
| 9 | 5 | S-5 | 8' - 10' | 10 | 0.2-ft. | | | | | | | | | |
| | 7 | | | | | | | | | | | | | |
| 10 | 5 | | | | | | Mixed Lacustrine (Bea | ch) & All | uvial | (Deltaic) | Deposit | <u>s</u> | 20.0 | 1 |
| | 3 | S-6 | 10' - 12' | 6 | 0.4# | 10.0' | Black SILT, little f-vf Sand, little Pe | at, saturate | d, ve | y strong H | ₂ S odor. | | 32.2 | |
| 11 | 3 | 3-6 | 10 - 12 | 6 | 0.4-ft. | | | | | | | | | |
| 12 | 1_ | | | | | | | | | | | | | |
| '- | 6 | | | | | 12.0' | No recovery | | | | | | Not | |
| 13 | 13 6 S-7 12' - 14' 13 0.0-ft. | | | | | | | Available | | | | | | |
| | 7 | | | | | | | | | | | | | |
| 14 | 6 | | | | | | | | | | | | | |
| | | | | | | 14.0' | 4.0' Gray mf SAND, saturated, no odors. | | | | | 0.3 | | |
| 15 | 15 5 S-8 14' - 16' 15 0.4-ft. | | | | | | | | | | | | | |
| | 0 10 | | | | | | Bottom of Boring @ 16.0-feet BGS | | | | | | | |
| 16 | 16 10 | | | | | | Bottom of E | oning @ 16 | o.u-166 | : DG3 | | | <u></u> | |

LEGEND

NOTES: Originally logged as boring PB-16

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

Native soil encountered between 8.2 & 10.0-ft.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

BS-28

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

BORING

JOB#

BS-29 1 OF 1

SHEET

206377 Phase 21

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 07-Nov-06 END DATE

07-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig 4.25-Inch ID

AUGER SIZE AND TYPE OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| WATER LEVEL DATA | | | | | | | | | | | | | |
|------------------|------|-------|--------|---------|--|--|--|--|--|--|--|--|--|
| DATE | TIME | WATER | CASING | REMARKS | | | | | | | | | |
| | | | | | | | | | | | | | |
| | 1 | | | | | | | | | | | | |
| | 1 1 | | | | | | | | | | | | |
| | 1 1 | | | | | | | | | | | | |

| nuc | K DNIL | LING | NE I HOD | NOT Applicat | DIE . | | | | ŧ |
|-----|----------|------|------------------|--------------|----------|--------------|---|----------|---|
| D | | | | | | | | | N |
| Ε | | | SA | MPLE | |) ge | SAMPLE DESCRIPTION | PID | 0 |
| Р | | | | | | l r | | READINGS | Т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | Ε |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | H | | | s |
| | 1 | | , , | | | | Topsoil | | |
| | 1 | | | | | 0.0' | Brown f SAND, little Clayey Silt, trace(-) f Gravel, organics present (roots, root | 0.0 | |
| 1 | 2 | S-1 | 0' - 2' | 3 | 1.2-ft | | traces, humus), damp, no odors. | | |
| | 2 | | | | | | Fill Material Containing Slag | 0.3 | |
| 2 | 4 | | | | | 0.6' | Dark grayish-brown cmf SAND, little mf ⁽⁺⁾ angular to subangular Gravel (Incl. | | |
| | 10 | | | | | | Cinders, Asphalt, Ash and trace Slag), damp, no odors. | 0.6 | |
| 3 | 11 | S-2 | 2' - 4' | 21 | 1.4-ft | 2.3' | Blue-green cmf angular GRAVEL and cmf ⁽⁺⁾ SAND (Mostly blue-green Slag), | | |
| | 20 | | | | | | damp, no odors. | 1.2 | |
| 4 | 14 | | | | | 2.8' | Brick red cmf SAND, some mf angular to subangular Gravel (Incl. Foundry Sand | | |
| | | | | | | | w/ trace Slag), damp to wet, no odors. | 2.6 | |
| 5 | 16 18 | S-3 | 4' - 6' | 34 | 1.4-ft | 4.0' | Blue-green cmf angular GRAVEL and cmf ⁽⁺⁾ SAND (Mostly blue-green Slag), | | |
| | | | | | | 4.0 | wet, no odors. | 1.5 | |
| 6 | 12 | | | | | 6.0' | 4 ′ | | ł |
| | 4 | | | | | 0.0 | Greenish-gray cmf angular GRAVEL and cmf SAND (Mostly blue-green and gray | 0.6 | |
| 7 | 4 | S-4 | 6' - 8' | 14 | 0.3-ft. | | Slag), wet, no odors. | | |
| | 10 | | | | | | | | |
| 8 | 11 | | | | | | | <u> </u> | |
| | 3 | | | | | 8.0' | As above, saturated, no odors. | 8.4 | |
| 9 | 4 | S-5 | 8' - 10 ' | 10 | 0.5-ft. | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | |
| | 6 | | | | | 8.2' | Black f SAND, some(-) Clayey Silt, saturated, strong H ₂ S and weathered | | |
| 10 | 7 | | | | | | petroleum odor | | |
| | 6 | | | | | 10.0' | Black mf SAND, some mf subrounded Gravel, saturated, moderate H ₂ S odor. | 0.9 | |
| 11 | 3 | S-6 | 10' - 12' | 5 | 0.9-ft. | | | | |
| '' | 2 | | 10 12 | | 0.0 11. | | | 0.2 | |
| 12 | 6 | | | | | | | | |
| 12 | 3 | | | | | 12.0' | Gray mf SANS, saturated, no odors. | 0.0 | |
| 40 | 6 | 6.7 | 401 441 | 10 | 10# | | Grades To | 0.0 | |
| 13 | 10 | S-7 | 12' - 14' | 16 | 1.2-ft | | Gray mf SAND, saturated, no odors. | | |
| | 10 | | | | | | | 0.0 | |
| 14 | 5 | | | | | 14.0' | Gray cm ⁽⁺⁾ f SAND and mf subrounded GRAVEL, saturated, no odors. | | |
| | 5 | | | | | 14.2' | Gray mf ⁽⁺⁾ SAND, little mf ⁽⁺⁾ subrounded Gravel, saturated, no odors. | 0.0 | |
| 15 | 10 | S-8 | 14' - 16' | 15 | 0.5-ft. | | | | |
| 16 | 10 | | | | | | Bottom of Boring @ 16.0-feet BGS | | |
| 10 | | l | LEGEND | 1 | | NOT | ES: Originally logged as boring PB-17 | <u> </u> | L |
| | | | LEGEND | | | 1301 | Lo. Originally logged as boiling t b-17 | | |

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

Native soil encountered @ 8.2-ft.

GENERAL NOTES:

LBA

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

300 STATE STREET, ROCHESTER, NEW YORK **ENVIRONMENTAL ENGINEERING CONSULTANTS**

PROJECT

Remedial Investigation Proposed Port Marina: Port of Rochester

Rochester, New York

07-Nov-06

BORING SHEET JOB#

CHKD. BY:

1 OF 1

BS-30

REMARKS

206377 Phase 2t

CONTRACTOR: Nothnagle Drilling Co. **BORING LOCATION**

GROUND SURFACE ELEVATION

START DATE

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

END DATE 07-Nov-06

WATER LEVEL DATA DATE TIME WATER CASING

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| ROC | OCK DRILLING METHOD Not Applicable | | | | | | | | | | | | | |
|----------|------------------------------------|---|-----------|----------|----------|--------------|---|--------------|----------|-------------|-------------|----------|----------|----------|
| D | | | | | | | | | | | | | N | |
| E | • | | SA | MPLE | | ्रि इ | SAMP | LE DESCF | RIPTIO | N | | | PID | 0 |
| Р | | | | | | Fe. | | | | | | | READINGS | _ |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | 표 | | | | | | | | E |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | DEPTH (Feet) | | | | | | | | s |
| <u> </u> | 1 | | (1 1.) | 7110(70) | (1 4441) | | | Topsoil | l | | | | | |
| | 2 | | | | | 0.0' | Brown f SAND, little(-) Silt, trace(+) | = | | Gravel or | anics pres | sent | 0.0 | |
| 1 | 2 | S-1 | 0' - 2' | 4 | 1.1-ft | 0.0 | (roots, root traces, humus), damp, | | | J. 101, 01 | ,a.noo prov | JOI 11 | } | |
| | 7 | | | | | | | ill Materi | ial | | | | 0.0 | |
| 2 | 7 | | | | | 0.4' | Gray mf angular GRAVEL and cm | | | o odors | | | | |
| | | | | | | 0.5 | Brown cmf SAND, some mf ⁽⁺⁾ angu | | | | ol Egypdi | nı Cand\ | 0.0 | |
| 3 | 13 | S-2 | 2' - 4' | 23 | 1.6-ft | 0.5 | damp, no odors. | nai io suba | angulai | Glavei (II | ici. Fouriu | iy Sanu) | ' | |
| | 10 | | | | | | Mixed Lacustrine (Bea | ob) & All | luvial | (Doltaio) | Donocit | | 0.0 | |
| 4 | 10 | | | | | 2.6' | Black cmf ⁽⁺⁾ SAND, some f subrour | • | | • | - | <u> </u> | | |
| | 5 | | | | | 1 | Gray to brown SILT, damp, no odo | | VEL, G | amp, no o | aors. | | 0.0 | |
| 5 | 7 | S-3 | 4' - 6' | 11 | 1.1-ft | 2.7' | 1 . | | | | | | | |
| | 4 | | | | | 3.2' | Gray to brownish-gray mf ⁽⁺⁾ SAND | with fragm | nents of | a red san | astone Co | e elddd | 0.0 | |
| 6 | 8 | | | | | | 4.0-ft., damp to wet, no odors. | | | | | | | |
| | 9 | | | | | 6.0' | Gray Clayey SILT, trace(+) f Sand, | trace f sub | bround | ed Gravel, | trace(-) P | eat, wet | 0.0 | |
| 7 | 3 | S-4 | 6' - 8' | 6 | 1.3-ft. | | to saturated @ ~6.5', no odors. | | | | | | | |
| | 3 | | | | | | | | | | | | 0.0 | |
| 8 | 4 | | | | | | | | | | | | | |
| | 1 | | • | | | 8.0' | Gray mf ⁽⁺⁾ SAND, saturated, no od- | | | | | | 0.0 | |
| 9 | 2 | S-5 | 8' - 10' | 9 | 0.8-ft. | 8.7' | Gray mf ⁽⁺⁾ SAND, little(+) mf subro | unded Gra | vel, sa | turated, no | odors. | | | |
| | 7 | | | | 0.0 | | | | | | | | | |
| 10 | 9 | | | | | | | | | | | | | |
| " | 5 | | | | | 10.0' | Gray mf(+) SAND, saturated, no od | dors. | | | | | 0.0 | |
| 11 | 5 | S-6 | 10' - 12' | 10 | 0.7-ft. | | | | | | | | 0.0 | |
| '' | 5 | 0-0 | 10 - 12 | 10 | 0.7-11. | | | | | | | | | |
| 12 | 5 | | | | | | | | | | | | | |
| 12 | 15 | | | | | | | | | | | | 0.0 | |
| 10 | 17 | 0.7 | 401 441 | 07 | 400 | 12.4' | Dark grayish-brown SILT & CLAY, | little Peat, | satura | ted, no od | ors. | | 0.0 | |
| 13 | 20 | S-7 | 12' - 14' | 37 | 1.3-ft. | 12.5' | Gray cmf SAND, some(+) mf subro | ounded Gra | avel, sa | iturated, n | o odors. | | | |
| | 11 | | | | | | | | | | | | 0.0 | |
| 14 | 1 | | | | | 14.0' | Gray mf ⁽⁺⁾ SAND, saturated, no ode | ors. | | | | | | 1 |
| | 1 | | | | | i | Gray cmf ⁽⁺⁾ SAND, little mf subrour | | el, satu | rated, no d | odors. | | 0.0 | |
| 15 | 3 | S-8 | 14' - 16' | 4 | 0.9-ft. | | , | | , | , | | | | |
| 16 | 4 | | | | | | Bottom of B | oring @ 16 | 6.0-fee | t BGS | | | | |
| | | | | | | NOT | | | | | | | .1 | \dashv |
| j | | LEGEND NOTES: Originally logged as boring PB-18 | | | | | | | | } | | | | |

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

Native soil encountered @ 2.6-ft.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

MBELLA

300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

BORING

BS-311 OF 1

SHEET JOB#

206377 Phase 21

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 06-Nov-06

END DATE 06-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| | WATE | | | |
|------|------|-------|--------|---------|
| DATE | TIME | WATER | CASING | REMARKS |
| | | | | |
| | | | | |

| Inc | JK DI IILI | JING | METHOD | Not Applicat | DIE | | | т | |
|-----|------------|------|-----------|--------------|----------|---|--|----------|---|
| D | | | | | | | | | N |
| E | | | SAI | MPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID | 0 |
| P | | | | | 1 | H (F | | READINGS | Т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | ΞPŢ | | | E |
| H | / 6" | | (FT.) | /RQD(%) | (FEET) | DE | | | S |
| | 57 | | | | | | Fill Material | 0.0 | - |
| 1 | 25 | S-1 | 0' - 2' | 50 | 1.3-ft. | 0.0' | Asphalt Pavement - Not sampled. | | |
| | 25 | | | | | 0.5' | Gray mf angular GRAVEL, some(+) cmf Sand, trace Silt, slightly moist, no odors. | 0.1 | |
| 2 | | | | | | | Fill Material Containing Slag | | |
| | 32 | | | | | 1.0' | White crystalline Slag. | 0.2 | |
| 3 | | S-2 | 2' - 4' | 19 | 0.9-ft | 2.0' | Rust brown and black cmf angular to subangular GRAVEL and cmf SAND (All | | |
| | 8 | | : | | | | rust brown and black metallic Slag), damp to wet, no odors. | | |
| 4 | | | | | | 4.0' | Dark brown mf ⁽⁺⁾ SAND, little mf angular to subangular Gravel, trace Silt (Incl. | | |
| | 4 | | | | | 4.0 | blue-green Slag and Ash), wet, moderate H ₂ S odor. | 0.3 | |
| 5 | 13 7 | S-3 | 4' - 6' | 20 | 0.8-ft. | | blue-green Slag and Ash, wel, moderate 1123 odor. | | |
| | 7 | | | | | | | | |
| 6 | | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | |
| | 11 8 | | | | | 6.0' | Dark grayish-brown cmf SAND, saturated, moderate H ₂ S odor. | 0.2 | |
| 7 | 8 | S-4 | 6' - 8' | 16 | 0.7-ft. | 0.0 | Grades To | | |
| | 3 | | | | | | Grayish-brown vf SAND, (incl. Wood with no saw marks or creosote odor), | | |
| 8 | 3 | | | | | | saturated, slight H2S odor. | | |
| | 3 | | | | | 8.0' | Gravish-brown vf SAND, saturated, no odors. | 0.2 | |
| 9 | 3 | S-5 | 8' - 10' | 6 | 0.2-ft. | 0.0 | | | |
| | 3 | | | | | | | | |
| 10 | 3 | | | | | 10.0' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | | 1 |
| | 3 | | | | | | Grades To | 0.4 | |
| 11 | 10 | S-6 | 10' - 12' | 13 | 0.7-ft. | | Gray f SAND, saturated, no odors. | | |
| | 10 | | | | | | | | |
| 12 | 7 | | | | | 12.0' | Gray mf SAND, saturated, no odors. | 0.0 | |
| | 3 | | 401 441 | _ | 4.00 | | Grades To | 0.3 | |
| 13 | 2 | S-7 | 12' - 14' | 5 | 1.0-ft. | | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | | |
| ١., | 7 | | | | | | Grades To | | |
| 14 | 1 | | | | | *************************************** | Gray f-vf SAND, saturated, no odors. | 0.1 | |
| 1.5 | 1 | 6.0 | 141 101 | | 10# | 14.8' | Gray SILT & CLAY, trace(+) vf Sand w/ thin interbeds of PEAT (<0.03-ft. thick), | 0.1 | |
| 15 | 2 | S-8 | 14' - 16' | 3 | 1.2-ft. | | saturated, no odors. | 0.0 | |
| 16 | 1 | | | | | | | 0.0 | |
| | | | LEGEND | | | | Bottom of Boring @ 16.0-feet BGS | | |

LEGEND

Bottom of Boring @ 16.0-feet BGS

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

NOTES: Originally logged as boring PB-19

Native soil encountered between 4.8 & 6.0-ft. BGS.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

BS-31

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

BORING

BS-32 1 OF 1

REMARKS

SHEET JOB#

206377 Phase 20

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 09-Nov-06 END DATE

WATER LEVEL DATA DATE TIME WATER CASING

09-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| ROC | K DRILI | LING I | METHOD | Not Applical | ble . | | | | | | |
|--------|---------------|--------|----------------|--------------------|--------------------|--------------|---|-----------|---|--|--|
| D | | | | | | | | | N | | |
| E | | | SA | MPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID | 이 | | |
| P | DI OMO | 110 | DEDTU | NVALUE | DECOVEDY | E) | | READINGS | E | | |
| T H | BLOWS / 6" | NO. | DEPTH (FT.) | N-VALUE /RQD(%) | RECOVERY (FEET) | EP | | | s | | |
| 11 | 50 | | (F1.) | /NQD(76) | (FEE1) | В | Fill Material | | | | |
| | 22 | | | | | 0.0' | Asphalt Pavement - Not sampled. | 0.4 | | | |
| 1 | 12 | S-1 | 0' - 2' | 34 | 1.1-ft. | 0.5' | Gray cmf angular GRAVEL, some(+) cmf ⁽⁺⁾ Sand, moist, no odors. | | | | |
| | 9 | | | | | 1.3' | Tan and black cmf SAND, trace(+) f subangular Gravel (Incl. Bottom Ash & | 0.3 | | | |
| 2 | 7 | | | | | | Cinders), moist to damp, no odors. | 0.1 | | | |
| 3 | 11 | S-2 | 2' - 4' | 17 | 1.3-ft. | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.1 | | | |
| | 6 | U-2. | 2 - 4 | '' | 1.0-11. | 2.0' | Tan f SAND, damp, no odors. | 0.2 | | | |
| 4 | 8 | | | | | | Grades To | | | | |
| | 5 | 5 | | | | | Tan mf SAND, damp, no odors. | Not | | | |
| 5 | 3 | S-3 | 4' - 6' | 5 | 0.0-ft. | 4.0' | No recovery. | Available | | | |
| | 2 | | | | | | | | | | |
| 6 | 1 | | | | | | 44) | | | | |
| | 4 | | | | | 6.0' | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | | | |
| 7 | 7 | S-4 | 6' - 8' | 18 | 1.5-ft. | | | | | | |
| | 11 | | | | | | | 0.0 | | | |
| 8 | 12 | | | | | 8.0' | Gray cmf subrounded GRAVEL and cm ⁽⁺⁾ f SAND, saturated, no odors. | | | | |
| | 7 | | | | | 8.5 | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.2 | | | |
| 9 | 13 | S-5 | 8' - 10' | 20 | 1.1-ft. | 8.9' | Gray mf SAND, some(+) mf subrounded Gravel, saturated, no odors. | | | | |
| | 15 | | | | | 0.0 | | 0.0 | | | |
| 10 | 6 | | | | | 10.0' | Gray mf SAND, saturated, no odors. | | | | |
| l | 8 | | | | | | Grades To | 0.0 | | | |
| 11 | 9 | S-6 | 10' - 12' | 17 | 1.2-ft. | | Gray mf SAND, saturated, no odors. | 0.0 | | | |
| 40 | 12 | | | | | | | 0.0 | | | |
| 12 | 1 | | | | | 12.0' | As above, saturated, no odors. | 0.0 | | | |
| 13 | 4 | S-7 | 12' - 14' | 13 | 1.3-ft. | | | 0.0 | | | |
| 13 | 9 | 3-7 | 12 - 14 | 13 | 1.0-11. | | | 0.0 | | | |
| 14 | 10 | | | | | | | | | | |
| ' | 2 | | | | | 14.0' | No recovery | Not | | | |
| 15 | 3 | S-8 | 14' - 16' | 5 | 0.0-ft. | | | Available | | | |
| | 2 | | | _ | | | | | | | |
| 16 2 | | | | | | | | | | | |
| 1 | LEGEND | | | | | | Bottom of Boring @ 16.0-feet BGS | | 1 | | |

S - SPLIT SPOON SOIL SAMPLE U - UNDISTURBED SOIL SAMPLE

NOTES: Originally logged as boring PB-20

C - ROCK CORE SAMPLE

Native soil encountered between 1.1 & 2.0-ft. BGS.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

MBELLA

300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

BORING

1 OF 1

BS-33

REMARKS

SHEET 1

JOB # 206377 Phase 20 CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION

as Villekolp (Helper) GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 09-Nov-06

END DATE

TIME

DATE

WATER LEVEL DATA

WATER

09-Nov-06

CASING

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer ROCK DRILLING METHOD Not Applicable | | | | | | | | | | | | | |
|---|----------|-------|-----------|--------------|----------|--------------|--|--------------|-----------------------------|----------------|-----------|-----------------|--------|
| | K DRILL | ING N | METHOD | Not Applical | ble | | | | <u> </u> | 1 | L | | N |
| D E P | | | SAI | MPLE | | DEPTH (Feet) | SAMPI | LE DESCRIP | TION | | | PID READINGS | 0 T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | PTH | | | | | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | ЭО | | | | **** | | | s |
| | 50 | : | | | | | | ill Material | | | | 0.6 | |
| 1 | 34 | S-1 | 0' - 2' | 58 | 1.3-ft. | i | Asphalt Pavement - Not sampled. | | · · · · (+) · | | | | |
| | 24 | | | | | 0.5' | Gray cmf angular to subangular GF | RAVEL, some | (+) cmt ^{**} / Sar | na, slightly i | moist, no | 1.9 | |
| 2 | 10 | | | | | 1.0' | odors. Asphalt Pavement | | | | | | |
| | 7 | | | | | 1.0 | Mixed Lacustrine (Bea | ch) & Alluv | ial (Deltaic |) Deposit | S | 0.0 | |
| 3 | 7 | S-2 | 2' - 4' | 14 | 1.8-ft. | 2.0' | Gray Clayey SILT, damp, no odors | | | | _ | | |
| | 8 | | | | | | Grades To | | | | | 0.1 | |
| 4 | 2 | | | | | | Gray SILT, damp to wet, no odors. | | | | | 0.0 | |
| 5 | 8 | S-3 | 4' - 6' | 16 | 0.3-ft. | 4.0' | Gray cmf SAND, little(+) mf ⁽⁺⁾ subro | ounded Grave | el, saturated, | no odors. | | 0.0 | |
| 5 | 8 | 3-3 | 4-0 | 10 | 0.3-11. | | | | | | | | |
| 6 | 10 | | | | | | | | | | | | |
| Ĭ | 10 | | | | | 6.0' | Gray cmf subrounded to subangula | ar GRAVEL ai | nd cmf SAND | , saturated, | , no | 0.0 | : |
| 7 | 12 | S-4 | 6' - 8' | 25 | 1.0-ft. | | odors. | | | | | | |
| | 13 | | | | | | | | | | | | |
| 8 | 13 | | | | | 8.0' | Gray mf ⁽⁺⁾ SAND, some(+) cmf sub | rounded Gra | val caturated | no odore | | | |
| | 6 | | | | | 0.0 | Gray IIII SAND, Some(+) Cili Suc | nounded Gra | vei, saluraleu | , 110 00013. | | 0.0 | |
| 9 | 9 | S-5 | 8' - 10' | 15 | 1.1-ft. | | | | | | | | |
| | 10 | | | | | | | | | | | 0.0 | |
| 10 | 3 | | | | | 10.0' | Gray mf ⁽⁺⁾ SAND with 1 piece of c | subround Gra | vel @ 10.7-ft | ., saturated | , no odor | 0.0 | 1 |
| | 6 | S-6 | 10' - 12' | 24 | 1.6-ft. | | | | | | | 0.0 | |
| 11 | 18 | 3-0 | 10 - 12 | 24 | 1.0-11. | 11.4' | Gray mf ⁽⁺⁾ SAND, trace(+) f subrou | nded Gravel, | saturated, no | odor | | 0.0 | |
| 12 | 19 | | | | | | | | | | | | |
| '- | 1 | | | | | l | Gray mf ⁽⁺⁾ SAND, trace Clayey Silt | | | | | 0.0 | |
| 13 | 8 | S-7 | 12' - 14' | 16 | 1.5-ft. | 12.3' | Gray mf ⁽⁺⁾ SAND, some mf subrou | | saturated, no | odor | | | |
| | 8 | | | | | 12.5' | Gray mf SAND, saturated, no odor | | | | | 0.1 | |
| 14 | | | | | | 13.3 | Gray SILT, trace of Sand, saturated | | caturated as | odore | | | + |
| | 1 | | | | | 14.0 | Gray mf SAND, trace(+) mf subrou | nueu Gravel, | saturateu, no | ouois. | | 0.0 | |
| 15 | 6 | S-8 | 14' - 16' | 9 | 0.8-ft. | | | | | | | | |
| 16 | — | | | | | | | | | | | | |
| 10 | | | LECEND | L | <u> </u> | ļ | Rottom of Ri | oring @ 16 | 0-foot BGS | | | 1 | 1 |

LEGEND

Bottom of Boring @ 16.0-feet BGS

S - SPLIT SPOON SOIL SAMPLE

C - ROCK CORE SAMPLE

U - UNDISTURBED SOIL SAMPLE

NOTES: Originally logged as boring PB-21

Native soil encountered between 1.3 & 2.0-ft. BGS.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

BORING JOB#

BS-34 1 OF 1

SHEET

CHKD. BY:

206377 Phase 20

Rochester, New York

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

WATER LEVEL DATA

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 09-Nov-06 END DATE

09-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| DATE | TIME | WATER | CASING | REMARKS |
|------|------|-------|--------|---------|
| | | | | |
| | | | | |
| | | | | |

| ROC | K DHILI | LING | METHOD | Not Applicat | oie | | | | |
|------|---------|------|------------|--------------|----------|--------------|---|----------|---|
| D | | | | | | | | | N |
| E | | | SAI | MPLE | | et) | SAMPLE DESCRIPTION | PID | 0 |
| Р | | | | | | (Fe | | READINGS | Т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | Ε |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | ÐΕ | | | s |
| | 50 | | | | | | Fill Material | 0.2 | |
| 1 | 24 | S-1 | 0' - 2' | 59 | 1.8-ft. | 0.0' | Asphalt Pavement - Not sampled. | 0.2 | |
| ' | 35 | 3-1 | 0 - 2 | 39 | 1.0-11. | 0.6' | Gray cm ⁽⁺⁾ f angular to subangular GRAVEL, some(+) cmf ⁽⁺⁾ Sand, slightly moist, | 0.5 | |
| 2 | 40 | | | | | | no odors. | 0.0 | |
| - | 11 | | | | | 1.0' | Gray cmf SAND, little mf angular to subrounded Gravel, moist, no odors. | 0.0 | |
| 3 | 20 | S-2 | 2' - 4' | 58 | 1.5-ft. | 1.4' | Concrete | | |
| | 38 | 02 | 4 7 | 30 | 1.5 16. | 2.0' | Black f SAND, some Silt, trace(+) mf ⁽⁺⁾ angular to subrounded Gravel, damp, very | 0.2 | |
| 4 | 22 | | | | | | slight petroleum odor. | | |
| ' | 2 | | | | | 2.3' | Gray mf ⁽⁺⁾ SAND, damp, no odors. | 0.1 | |
| 5 | 4 | S-3 | 4' - 6' | 10 | 1.3-ft. | | Fill Material Containing Slag | 0.1 | |
| " | 6 | | 4 0 | '0 | 1.0 11. | 3.0' | Brown and blue-green cmf ⁽⁺⁾ SAND, some cmf angular to subrounded Gravel | 0.0 | |
| 6 | 5 | | | | | | Incl. Slag), damp, no odors. | 0.0 | |
| " | 1 | | | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | 0.1 | |
| 7 | 4 | S-4 | 6' - 8' | 7 | 1.4-ft. | 4.0' | Gray mf ⁽⁺⁾ SAND, some Clayey Silt, damp, no odors. | ., | |
| , | 3 | 0-4 | 0 - 0 | ′ | 1.4-11. | 4.1' | Gray SILT, damp to wet, no odors. | 0.0 | |
| 8 | 5 | | | | | 6.0' | As above, saturated, no odors. | 0.0 | |
| " | 1 | | | | | | Grades To | 0.2 | |
| 9 | 2 | S-5 | 8' - 10' | 5 | 1.3-ft. | | Gray Clayey SILT, trace Peat, saturated, no odors. | 0.2 | |
| | 3 | 5-5 | 0 - 10 | 3 | 1.0-11. | 7.3 | PEAT | 0.1 | |
| 10 | 4 | | | | | 7.35 | Gray mf SAND, saturated, no odors. | 0.1 | |
| ' | 1 | | | | | 8.0' | Gray mf ⁽⁺⁾ SAND with PEAT intervals from 8.1 to 8.4-ft., 8.7 to 8.9' 9.0-ft (~0.02' | 0.1 | |
| 11 | 5 | S-6 | 10' - 12' | 15 | 1.2-ft. | | thick) and 9.2-ft. (~0.04' thick), saturated, no odors. | 0., | |
| '' | 10 | 0-0 | 10 - 12, | '5 | 1.2.11. | 10.0' | Gray mf ⁽⁺⁾ SAND, trace Peat, saturated, no odors. | 0.1 | |
| 12 | 10 | | | | | | Grades To | 0., | |
| '2 | 6 | | | | | | Gray mf ⁽⁺⁾ SAND, saturated, no odor | 0.1 | |
| 13 | 6 | S-7 | 12' - 14' | 16 | 1.0-ft. | 12.9' | Gray c ⁽⁺⁾ mf SAND, saturated, no odors. | 0., | |
| 13 | 10 | 3-7 | 16 - 14 | 10 | 1.0-11. | | | 0.0 | |
| 14 | 12 | | | | | | | 0.0 | |
| 1 14 | 1 | | | | | 14.0' | Gray c ⁽⁺⁾ mf SAND, little(-) mf ⁽⁺⁾ subrounded Gravel, saturated, no odors. | 0.0 | |
| 15 | 1 | S-8 | 14' - 16' | 3 | 1.0-ft. | | Grades To | 0.0 | |
| 15 | 2 | 3-0 | 14 - 10 | ٦ | 1.0-11. | | Gray mf ⁽⁺⁾ SAND, saturated, no odors. | 0.0 | |
| 16 | 12 | | | | | | | 0.0 | |
| | LEGEND | | | | | | Bottom of Boring @ 16.0-feet BGS | | |

LEGEND

Bottom of Boring @ 16.0-feet BGS

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

NOTES: Originally logged as boring PB-22

C - ROCK CORE SAMPLE

Native soil encountered between 3.5 & 4.0-ft. BGS.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

BORING SHEET

JOB#

BS-35

REMARKS

1 OF 1 206377 Phase 20

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

GROUND SURFACE ELEVATION

DATUM

WATER LEVEL DATA

WATER

LABELLA REPRESENTATIVE:

START DATE 09-Nov-06 END DATE

TIME

DATE

09-Nov-06

CASING

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

| OVE | RBURD | EN SA | AMPLING MI | ETHOD | 2" x 2' Split- | spoon | w/140# Hammer | | | | | | | |
|--|-----------|--------|------------|--------------|----------------|--------------|--|-------------------------|---------|-------------|--------------|-----------------|----------|--------|
| ROC | K DRILI | LING I | METHOD | Not Applical | ole | | | | | | <u> </u> | | • | |
| D | | | | | | _ | | | | | | | | N |
| E | | | SA | MPLE | | DEPTH (Feet) | SAMP | LE DESCR | IPTIC | N | | | PID | 0 |
| P | | | | I | | H. | | | | | | | READINGS | T |
| 1 | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | EPT | | | | | | | | E S |
| H | / 6" 9 | | (FT.) | /RQD(%) | (FEET) | Ω | | ill Materi | al | | | v . | | • |
| | 20 | | | | | 0.0' | Dark gray cmf angular to subangul | | | cmf SANE | (Incl. Mille | ed | 0.0 | |
| 1 | 12 | S-1 | 0' - 2' | 32 | 1.0-ft. | 0.0 | Asphalt), moist, no odors. | | | | (| - | | |
| | 12 | | | | | 0.4' | Brownish-gray cmf SAND, some(-) | f subangul | ar Gra | avel, moist | , no odors. | | 9.4 | |
| 2 | 9 | | | | | | Fill Mater | ial Conta | ining | Slag | | | 0.0 | |
| | 9 | 0.0 | 01.41 | 40 | 456 | 0.6' | Brownish-gray cmf angular to suba | ıngular GR | AVEL | some(+) | cmf Sand (I | incl. blue | 0.0 | |
| 3 | 9 | S-2 | 2' - 4' | 18 | 1.5-ft. | | green Slag), moist, no odors. | | | | | | 0.1 | |
| 4 | 10 | | | | | | E | ill Materi | al | | | | 0.1 | |
| " | 2 | | | | | 2.0' | Brown to dark gray cmf SAND and | mf ⁽⁺⁾ angul | lar to | subangula | r Gravel (In | ıcl. | 0.0 | |
| 5 | 3 | S-3 | 4' - 6' | 8 | 1.2-ft. | | Cinders w/trace Ash & Asphalt), m | | | | | | | |
| | 5 | | , , | | | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | | | | | 0.0 | |
| 6 | 6 | | | | | | Light brown SILT, wet to saturated | | no o | iors. | | | | |
| | 5 | | | | | | Dark gray mf ⁽⁺⁾ SAND, saturated, r | | - 0. | | | | 0.1 | |
| 7 | 5 | S-4 | 6' - 8' | 10 | 1.3-ft. | 6.0' | As above w/PEAT layer (~0.05-ft. 1 | thick) @ 7.0 |)'), sa | urated, no | odors. | | | |
| | 5 | | | | | | | | | | | | 0.1 | |
| 8 | 5 | | | | : | 8.0' | Wood (Apparently natural w/ no cre | nosoto odo | r and | hark on ho | ttom) | | | |
| | 5 4 | | | | | 0.0 | Wood (Apparently hattiral W no cit | 303016 000 | anu | bark off bo | atomij. | | 0.2 | |
| 9 | 5 | S-5 | 8' - 10' | 9 | 1.3-ft. | 9.0' | Gray mf SAND, saturated, no odor | s. | | | | | | |
| | 6 | | | | | 0.0 | aray mi o, ara, salararay no sao. | . | | | | | 0.1 | |
| 10 | 2 | | | | | 10.0' | Gray cm ⁽⁺⁾ f SAND, some(+) to and | mf subroui | nded t | o subangu | ılar GRAVE | EL, | | |
| | 7 | | | | | | saturated, no odors. | | | ŭ | | , | 0.3 | |
| 11 | 14 | S-6 | 10' - 12' | 21 | 1.1-ft. | | | | | | | | 0.5 | |
| 12 | 16 | | | | | | | | | | | | 0.5 | |
| 12 | 9 | | | | | 12.0' | Gray mf SAND, saturated, no odor | | | | | | 0.0 | |
| 13 | 20 | S-7 | 12' - 14' | 44 | 1.6-ft. | | Grades To | | | | | | 0.0 | |
| " | 24 | 0, | 12 14 | | 1.0 10. | | Gray mf ⁽⁺⁾ SAND, saturated, no odor | | | | | | | 1 1 |
| 14 | 27 | | | | | | | | | | | | 0.1 | |
| | | | | | | | Bottom of Boring @ 14 | 1.0-feet BG | S Due | to Runnin | g Sand | | | |
| 15 | 15 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 16 NOTES: Originally logged as boring PR-2 | | | | | | | | | | | WF-14 | | | L |

LEGEND

NOTES: Originally logged as boring PB-23

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

10-ft. of running sand in augers when attempting to sample the 14 to 16-ft. interval

Native soil encountered between 3.5 & 4.0-ft. BGS.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

BORING

BS-36 1 OF 1

SHEET JOB#

206377 Phase 20

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 09-Nov-06 **END DATE**

09-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| | WATER LEVEL DATA | | | | | | | | | | | | | |
|---|-----------------------|------|-------|--------|---|---------|---|--|--|--|--|--|--|--|
| | DATE | TIME | WATER | CASING | F | REMARKS | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | Ν | | | | | | | |
| P | PLE DESCRIPTION PID O | | | | | | | | | | | | | |

| SAMPLE S | D | | | | | | | | | N |
|--|----|----------|--------|--|---------|----------|---|--|----------|---|
| 10 | E | | SAMPLE | | | | et) | SAMPLE DESCRIPTION | PID | 0 |
| 10 | P | | | | | | Fe | | READINGS | Т |
| 10 | Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | PTH | | | E |
| 1 | Н | / 6" | | (FT.) | /RQD(%) | (FEET) | DE | | [| s |
| 1 | | 10 | | | | | | Fill Material | 2.1 | |
| 13 | ١. | 11 | 6.4 | מי מי | 04 | 154 | 0.0' | Black to dark gray mf ⁽⁺⁾ angular GRAVEL and cmf SAND (Incl. Asphalt), slightly | 2.1 | |
| 16 | ' | 13 | 5-1 | 0-2 | 24 | 1.5-11. | | moist, no odors. | 0.7 | |
| 7 | | 16 | | | | | | Fill Material Containing Slag | 0.7 | |
| Siagh, moist, no odors. Siagh, moist, no | 2 | 7 | | | | | 0.3' | Brown and blue-green mf ⁽⁺⁾ SAND, some cmf subangular Gravel (Incl. blue-green | 0.0 | |
| S | | 7 | 0.0 | 01 41 | 40 | 400 | | Slag), moist, no odors. | 0.0 | |
| Second For Sand For | 3 | 6 | 5-2 | 2' - 4' | 13 | 1.3-π. | | Fill Material | | |
| A | ١. | 8 | | | | | 1.1' | Brown f SAND, little(+) mf subangular to angular Gravel (Incl. NO Slag), moist to | 0.0 | |
| S T S S S S S S S S | 4 | 4 | | | | | | damp, no odors. | | |
| S | _ | 7 | _ | | | | | Fill Material Containing Slag | 0.0 | |
| Concrete fragments. | 5 | 5 | S-3 | 4' - 6' | 12 | 1.5-tt. | 2.0' | As above with trace to trace(-) blue-green Slag composing the gravel fraction, | | |
| S | ŀ | 4 | | | | | | damp to wet, no odors. | 0.0 | |
| 1 | 6 | 3 | | | | | *************************************** | Fill Material | | |
| Nixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits 0.0 | | | | | | | 3.25 | | 0.0 | |
| S - 5 8' - 10' 21 1.2-ft. | 7 | | S-4 | 6' - 8' | 10 | 1.4-ft. | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | |
| 11 | ĺ | 9 | | | | | 4.0' | | 0.0 | |
| 9 11 S-5 8' - 10' 21 1.2-ft. Gray SILT, trace vf Sand, wet, no odors Grades To Grades To Gray Clayey SILT, saturated between 5.4 & 6.0-ft., no odors. 11 11 S-6 10' - 12' 21 1.0-ft. 6.9' Dark brown SILT & CLAY, little(+) Peat, saturated, no odors. Gray cmf*f SAND, little(+) f subrounded GRAVEL, saturated, no odors. Gray cmf SAND, saturated, no odors. Gray cmf SAND w/ Wood (Apparently natural) @10.8-ft., saturated, no odors. 0.0 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 8 | | | | | | | Grades To | | |
| 9 10 S-5 8'-10' 21 1.2-ft Grades To Gray Clayey SILT, saturated between 5.4 & 6.0-ft., no odors. 11 1 | | | | | | | | Grav SILT, trace vf Sand, wet, no odors. | 0.0 | |
| Gray Clayey SILT, saturated between 5.4 & 6.0-ft., no odors. 11 | 9 | | S-5 | 8' - 10' | 21 | 1.2-ft. | | | | |
| 10 1 1 1 1 S-6 10' - 12' 21 1.0-ft. 6.9' Dark brown SILT & CLAY, little(+) Peat, saturated, no odors. Gray cm ⁽⁺⁾ f SAND, little(+) f subrounded GRAVEL, saturated, no odors. Gray cmf SAND, some(-) f subrounded GRAVEL, saturated, no odors. Gray cmf SAND, some(-) f subrounded GRAVEL, saturated, no odors. Gray cmf SAND w/ Wood (Apparently natural) @ 10.8-ft., saturated, no odors. Gray cmf SAND, saturated, no odors. Gray cmf SAND, saturated, no odors. Gray cmf SAND, saturated, no odors. Gray cmf SAND, saturated, no odors. Gray cmf SAND, saturated, no odors. Gray cmf SAND, saturated, no odors. Gray cmf SAND, saturated, no odors. Gray cmf SAND, saturated, no odors. Gray cmf SAND, saturated, no odors. Gray cmf SAND, saturated, no odors. O.0 14.0' Gray cmf SAND, little cmf subrounded GRAVEL, saturated, no odors. O.0 | | | | | | | | | 0.0 | |
| 11 | 10 | | | 1918-19-19-19-19-19-19-19-19-19-19-19-19-19- | | | 6.9' | 1 1 1 1 | | |
| 11 10 S-6 10'-12' 21 1.0-tt. 8.0' Gray mf(*) SAND, saturated, no odors. 10.0' Gray cmf SAND, some(-) f subrounded GRAVEL, saturated, no odors. 10.3' Gray mf SAND w/ Wood (Apparently natural) @ 10.8-ft., saturated, no odors. 12.0' Gray mf(*) SAND, saturated, no odors. 12.0' Gray mf SAND, some(-) cmf(*) subrounded GRAVEL, saturated, no odors. 12.0' Gray mf SAND, some(-) cmf(*) subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND | | — | | | | | | 1 | 0.0 | |
| 12 11 10.0' Gray cmf SAND, some(-) f subrounded GRAVEL, saturated, no odors. 10.0' Gray cmf SAND, some(-) f subrounded GRAVEL, saturated, no odors. 10.0' Gray cmf SAND, some(-) f subrounded GRAVEL, saturated, no odors. 10.0' Gray mf SAND w/ Wood (Apparently natural) @ 10.8-ft., saturated, no odors. 12.0' Gray mf SAND, saturated, no odors. 12.6' Gray mf SAND, some(-) cmf ⁽⁺⁾ subrounded GRAVEL, saturated, no odors. 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. | 11 | | S-6 | 10' - 12' | 21 | 1.0-ft. | | 1 - | | |
| 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | - | | | | | 10.0' | | 0.0 | |
| 13 1 S-7 12' - 14' 17 1.1-ft. 12.0' Gray mf ⁽⁺⁾ SAND, saturated, no odors. Gray mf SAND, some(-) cmf ⁽⁺⁾ subrounded GRAVEL, saturated, no odors. 0.0 | 12 | \vdash | | | | | | | | |
| 13 16 S-7 12'-14' 17 1.1-ft. 12.6' Gray mf SAND, some(-) cmf ⁽⁺⁾ subrounded GRAVEL, saturated, no odors. 0.0 | | H | | | | | | | 0.0 | |
| 14 16 0.0 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. | 13 | | S-7 | 12' - 14' | 17 | 1.1-ft. | | | | |
| 14.0' Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors. | İ | \vdash | | | | | 12.0 | Subjourned of Invite, Salarated, 10 00015. | 0.0 | |
| 17.0 (3/3) 111 (3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/3/ | 14 | \vdash | | | | | 14 0' | Gray mf SAND, little mf subrounded GRAVEL, saturated, no odors | | |
| | | - | | | | | 17.0 | say in 5, and, and an outrounded of the LL, saturated, no odolo. | 0.0 | |
| 15 2 S-8 14' - 16' 5 1.4-ft. 14.6' Gray f SAND w/ PEAT layer (~0.05-ft. thick) @ 14.9-ft., saturated, no odors | 15 | | S-8 | 14' - 16' | 5 | 1.4-ft. | 14 6' | Gray f SAND w/ PEAT layer (~0.05-ft thick) @ 14.9-ft saturated no odors | | |
| | 10 | <u> </u> | | | | | | ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' | 0.0 | |
| 16 4 14.95' Gray mf ^{t+} SAND, saturated, no odors. Bottom of Boring @ 16.0-feet BGS | 10 | 4 | | LECEND | | <u> </u> | 14.70 | | | Ч |

LEGEND

Bottom of Boring @ 16.0-feet BGS

S - SPLIT SPOON SOIL SAMPLE

NOTES: Originally logged as boring PB-24 U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

Native soil encountered between 3.3 & 4.0-ft. BGS.

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA



PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET

BS-37

1 OF 2

JOB# 206377 Phase 4

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

BORING LOCATION

GROUND SURFACE ELEVATION

DATUM

WATER LEVEL DATA

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 10-Nov-06 **END DATE**

10-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| | DATE | TIME | WATER | CASING | REMARKS |
|---|------|------|-------|--------|---------|
| | | | | | |
| | | | | | |
| | | | | | |
| _ | I | | | | |

| D | SAMPLE | | | | | æ | CAMPLE DECORPORA | DID | N |
|----|----------|----------|-----------|---------|---------------------------------------|--------------|---|-----------------|------------|
| E | | SAIVIFLE | | | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID READINGS | O T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | Ę | | | E |
| Н | / 6" | | (FT.) | /RQD(%) | (FEET) | DEF | | | s |
| | 1 | | | | | | Topsoil | 0.1 | |
| 1 | 2 | S-1 | 0' - 2' | 7 | 1.5-ft. | 0.0' | Dark brown f SAND, little Silt, trace f subrounded Gravel, organics present (roots, | | |
| | 5 | | | | | | root traces, humus), damp, no odors. | 0.2 | |
| 2 | 5 | | | | | 0.5' | Fill Material Containing Slag Brown mf ⁽⁺⁾ SAND, little Silt, little mf angular Gravel (Incl. <3% Slag), damp, no | | |
| | 6 | | | | | 0.5 | odors. | 0.0 | |
| 3 | 8 | S-2 | 2' - 4' | 14 | 1.2-ft. | 2.0' | As above, damp, no odors. | | |
| ١. | 13 | | | | | 3.0' | Blue-green Slag with trace Ash, damp, no odors. | 0.1 | |
| 4 | 9 | | | | | 4.0' | As above, damp to wet, no odors. | 3.2 | |
| 5 | 100/5" | S-3 | 4' - 6' | >100 | 0.3-ft. | | | 0.2 | |
| | | | | 7100 | 0.0 1 | | | | |
| 6 | | | | | · · · · · · · · · · · · · · · · · · · | | | | 1 1 |
| | 15 | | | | | 6.0' | All blue-green SLAG (~90%) and Ash (~10%), partially fused, wet, no odors. | 0.2 | |
| 7 | 33 27 | S-4 | 6' - 8' | 60 | 1.7-ft. | | | | |
| | 30 | | | | | | | 0.4 | |
| 8 | 8 | | | | | 8.0' | All ASH (~60%) and gray SLAG (~40%), partially fused, saturated, no odors. | | |
| | 7 | ٥. | 01 401 | 40 | 0.4.5 | | | 0.1 | |
| 9 | 9 | S-5 | 8' - 10' | 16 | 0.4-ft. | | | | |
| 10 | 12 | | | | | | | | |
| | 7 | | | | | 10.0 | As above, saturated, no odors. | 0.1 | |
| 11 | | S-6 | 10' - 12' | >108 | 0.5-ft. | | | | 1 1 |
| | 100/4" | | | | | | | | |
| 12 | | | | | | 12 0' | Greenish-gray to gray cmf angular GRAVEL, some cmf Sand (All greenish-gray a | | |
| | 13 | | | | | 12.0 | gray Slag), saturated, H₂S odor. | 0.9 | |
| 13 | 15 | S-7 | 12' - 14' | 26 | 1.0-ft. | | 0 0,,,2 | | |
| | 12 | | | | | | | | |
| 14 | 7 | | | | | 14.0' | As above, saturated, H ₂ S odor. | 0.4 | |
| 15 | 7 | S-8 | 14' - 16' | 20 | 0.6-ft. | | | 0.4 | |
| 13 | 13 | J-0 | 14 - 10 | 20 | 0.0-11. | | | | |
| 16 | 14 | | | | | | | | Щ |
| 1 | | | | | | | Con Pogo 2 of 2 | | - 1 |

LEGEND

See Page 2 of 2 NOTES: Native soil encountered @ 18.55-ft. BGS

S - SPLIT SPOON SOIL SAMPLE

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

BS-37

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

BORING SHEET **BS-37** 2 OF 2

JOB#

206377 Phas

Rochester, New York CHKD. BY:

CONTRACTOR:

Nothnagle Drilling Co.

BORING LOCATION

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE

10-Nov-06

END DATE

10-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| | WATE | ER LEVEL D | DATA | |
|------|------|------------|--------|---------|
| DATE | TIME | WATER | CASING | REMARKS |
| | | | | |
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| | | | | 110t7 tppilo | - CLD10 | | | | |
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| D | | | | | | | | ! ! | N |
| Ε | | | S | AMPLE | | eet) | SAMPLE DESCRIPTION | PID | 0 |
| Р | | | | | | Į Ę | | READINGS | T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | E |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | 8 | | | s |
| | 7 | | | | | | Fill Material Containing Slag | 0.3 | 1 |
| 17 | 7 | S-9 | 16' - 18' | 20 | 0.7-ft. | 16.0' | Greenish-gray to gray cmf angular GRAVEL, some cmf Sand (All greenish-gray a | | |
| | 13 | | ,. | -0 | 0.7 1 | | gray Slag), saturated, slight H₂S odor. | | |
| 18 | 5 | | | | | | | | - 1 |
| | 6 | | | | | 18.0' | As above, saturated, strong H ₂ S odor. | 0.1 | 1 1 |
| 19 | 6 | S-10 | 18' - 20' | 11 | 0.6-ft. | | Mixed Lacustrine (Beach) & Alluvial (Deltaic) Deposits | | |
| | 5 | | | | | 18.55' | PEAT, saturated, strong H2S odor. | | |
| 20 | 3 | | | | | | | | 1 |
| | 2 | | | | | 1 | As above, saturated, no odors. | 0.0 | |
| 21 | 2 | S-11 | 20' - 22' | 4 | 0.8-ft. | 1 | Brown vf SAND and Clayey SILT, saturated, no odors. | | |
| | 2 | | | | | 20.7 | PEAT, saturated, no odors. | | |
| 22 | 2 | | | | | | | | |
| | | | |] | | | Bottom of Boring @ 22.0-feet BGS | | |
| 23 | | | | | | | | | |
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| | <u></u> | | LEGEND | 1 | 1. | NOT | FS: | I | |
| | Q QDI | IT CD | | SAMDLE | | '''' | 20 . | | |

S - SPLIT SPOON SOIL SAMPLE

- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

BS-37

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

BORING

BS-38 1 OF 2

REMARKS

SHEET JOB#

206377 Phase 4

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

BORING LOCATION

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 10-Nov-06 END DATE

DATE

WATER LEVEL DATA

TIME WATER CASING

10-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD

2" x 2' Split-spoon w/140# Hammer

| OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer ROCK DRILLING METHOD Not Applicable | | | | | | | | | | |
|---|--------------------------|-------|----------------|--------------------|--------------------|--------------|---|------------------|-------------|--|
| | DRILL | ING N | METHOD | Not Applica | ble | | | | Т., | |
| D E P | | | SAI | MPLE | | DEPTH (Feet) | SAMPLE DESCRIPTION | PID READINGS | N O T | |
| | LOWS | NO. | DEPTH (FT.) | N-VALUE /RQD(%) | RECOVERY (FEET) | ЭЕРТН | | | E S | |
| ; | 50 46 | | | | | 0.0' | Fill Material Asphalt Pavement - Not sampled | 0.9 | Ť | |
| | 22 14 | S-1 | 0' - 2' | 68 | 1.5-ft. | 0.5' | Gray cmf angular GRAVEL and cmf ⁽⁺⁾ Sand, moist, no odors. Fill Material Containing Slag | 0.4 | | |
| | 9 | S-2 | 2' - 4' | 18 | 1.6-ft. | 1.2' | Brown cmf ⁽⁺⁾ SAND, little Silt, little mf subangular to angular Gravel (Incl. Botto Ash, w/ trace(-) Slag), moist, no odors. | m 0.1 | | |
| <u> </u> | 9 | 0-2 | <u> </u> | 10 | 1.0-11. | | Dark brown to brown SILT, trace vf Sand (Incl. trace Asphalt and trace(-) Ash Slag), damp, no odors. | 0.0 | | |
| 5 — | 4 11 7 | S-3 | 4' - 6' | 18 | <0.1-ft. | 4.0' | Dark brown to black mf ⁽⁺⁾ SAND and mf angular GRAVEL (Incl. Ash w/ black metallic Slag), damp, no odors. | 0.0 | | |
| 7 | 9 20 22 30 | S-4 | 6' - 8' | 52 | 1.1-ft. | 6.0' | Tan, gray and white cmf subangular to angular GRAVEL, some cmf ⁽⁺⁾ Sand, little(-) Silt (Approx. 50% Ash and 50% gray and white Slag), damp, no odors. | 2.8 | | |
| 9 | 20 10 10 18 | S-5 | 8' - 10' | 28 | 1.1-ft. | 8.0' | Gray cmf angular GRAVEL, some(+) cmf Sand, trace Silt (Approx. 85% gray Slag, 1% blue-green Slag, and 14% Ash), saturated, no odors. | 0.3 | | |
| 11 | 20 20 14 7 5 | S-6 | 10' - 12' | 21 | 0.4-ft. | 10.0 | Gray cmf angular GRAVEL, little(+) cm Sand, (All gray Slag), saturated, no o | 0.0 | - | |
| 13 | 16 25 10 | S-7 | 12' - 14' | 35 | 0.5-ft. | 12.0' | As above, saturated, no odors. | 0.1 | - | |
| 15 | 2 2 3 | S-8 | 14' - 16' | 5 | 0.0-ft. | 14.0' | No Recovery. | Not Available | - | |
| 16 | 4 | | LEGEND | L | 1 | | See Page 2 of 2 | | J., | |

S - SPLIT SPOON SOIL SAMPLE

NOTES: Native soil encountered between 12.5 & 16.0-ft. BGS

U - UNDISTURBED SOIL SAMPLE

C - ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

BORING SHEET

BS-38

REMARKS

2 OF 2 206377 Phas

CHKD. BY:

Rochester, New York

CONTRACTOR:

BORING LOCATION Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION LABELLA REPRESENTATIVE:

C. Stiles

START DATE

DATE

END DATE

TIME

WATER LEVEL DATA

WATER

10-Nov-06

DATUM

CASING

JOB#

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE 4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

ROCK DRILLING METHOD Not Applicable

| ROC | OCK DRILLING METHOD Not Applicable | | | | | | | | | | | 1 | | |
|-----|------------------------------------|-----|-----------|---------|----------|--------------|------------------------------|-------------|-----------|---------------|-------------|-------------|----------|---|
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| E | | | s | AMPLE | | e e | S | AMPLE DE | SCRIF | MOIT | | | PID | 0 |
| P | | | | | | | | | | | | | READINGS | т |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | DEPTH (Feet) | | | | | | | | E |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | DE | | | | | | | | s |
| | 6 | | | | | | Mixed Lacustrine (| Beach) 8 | k Allu | vial (Delta | aic) Depo | <u>sits</u> | 0.0 | |
| 17 | 9 | S-9 | 16' - 18' | 14 | 0.7-ft. | 16.0' | Grayish-brown to brownish-gr | ay f-vf SAN | ND, littl | e Silt, satur | ated, no oc | dors | 0.0 | |
| | 5 3 | | | | | | | | | | | | | |
| 18 | | | | | · | | Bottom | of Boring | @ 18.0 | 0-feet BGS | | | | |
| 19 | | | |] | | | | | | | | | : | |
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| | <u> </u> | | LEGEND | | | NOT | ES: | | . , , | | | | | |
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- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

BORING #

BS-38

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester

Rochester, New York

BORING

BS-39 1 OF 2

REMARKS

SHEET JOB#

206377 Phase 4

CHKD. BY:

CONTRACTOR: Nothnagle Drilling Co.

DRILLER Neill Smith (Driller) & Thomas Villekolp (Helper)

GROUND SURFACE ELEVATION

BORING LOCATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE 10-Nov-06

END DATE

TIME

DATE

WATER LEVEL DATA WATER

10-Nov-06

CASING

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

| OVE | VERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer | | | | | | | | | | | | | |
|-----|---|--------|-----------|--------------|----------|--------------|---|-------------------------|-----------------------|---------------|--------------|-----------|----------|-----|
| ROC | K DRIL | LING N | METHOD | Not Applical | ble | | | | | | <u> </u> | | | , |
| D | | | | | | | | | | | | | | N |
| E | | | SAI | MPLE | | et) | SAMPI | E DESCF | RIPTIO | N | | | PID | 0 |
| Р | | | | | | DEPTH (Feet) | | | | | | | READINGS | T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | PT | | | | | | | | E |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | DEI | | | | | | | | s |
| | 50 | | | | | | <u>F</u> | ill Materi | ial | | | | 0.1 | |
| 1 | 39 | S-1 | 01 01 | F-7 | 4 4 5 | 0.0' | Asphalt Pavement - Not sampled | | | | | | 0.1 | |
| ' | 18 | 5-1 | 0' - 2' | 57 | 1.4-ft. | 0.5' | Gray cmf angular GRAVEL and cm | f ⁽⁺⁾ Sand, | moist, | no odors. | | | 4.5 | |
| | 10 | | | | | | Fill Mater | al Conta | ining | Slag | | | 4.5 | |
| 2 | 7 | | | | | 1.1' | Brown and gray SILT, some cmf ⁽⁺⁾ | Sand, little | e mf ⁽⁺⁾ a | angular G | ravel (Incl. | Foundry | 0.1 | |
| | 5 | | O) 41 | 40 | 400 | | Sand w/ trace Slag), damp, no odo | rs. | | | | | 0.1 | |
| 3 | 5 | S-2 | 2' - 4' | 10 | 1.6-ft. | 2.0' | Brown cmf ⁽⁺⁾ SAND, little(+) Silt, litt | le mf ⁽⁺⁾ an | gular (| Gravel (Inc | l. trace(+) | Foundry | | |
| | 7 | | | | | | Sand and trace Slag), damp, no od | ors. | | | | | 0.0 | |
| 4 | 11 | | | | | 4.0' | Brown cm ⁽⁺⁾ f SAND, little mf angula | r to suban | ngular (| Gravel (Ap | prox. 80% | Foundry | | 1 |
| | 12 | | | | | | Sand and 20% white, gray and rust | brown Sla | ag), da | mp, no oc | lors. | | 7.6 | |
| 5 | 9 | S-3 | 4' - 6' | 21 | 1.7-ft. | | | | | | | | | |
| | 7 | | | | | | | | | | | | 1.2 | |
| 6 | 6 | | | | | 6.0' | Brown mf SAND, little(-) mf ⁽⁺⁾ angu | ar to suba | ıngular | Gravel (A | oprox. 60% | 6 Foundr | | 1 |
| | 4 | | | | | | Sand, 15% Slag and 25% Ash), we | | _ | (| | | 0.1 | |
| 7 | 4 | S-4 | 6' - 8' | 8 | 0.7-ft. | | , | , | | | | | | |
| | 7 | | | | | | | | | | | | | |
| 8 | 28 | | | | | 8.0' | Gray cmf angular GRAVEL, some | cm Sand. | trace \$ | Silt (All ara | av Slag), sa | aturated. | | 1 |
| ŀ | 25 | | | | | 0.0 | no odors. | ···· •=, | | (v g | -, | , | 0.5 | |
| 9 | 9 | S-5 | 8' - 10' | 34 | 0.8-ft. | | 110 54516. | | | | | | | |
| | 10 | | | | | | | | | | | | | |
| 10 | 7 | | | | | 10 0' | As above, saturated, no odors. | | | | | | | 1 |
| | 9 | | | | | 10.0 | no above, saturated, no odoro. | | | | | | 1.4 | |
| 11 | 6 | S-6 | 10' - 12' | 15 | 0.5-ft. | | | | | | | | | |
| | | | | ĺ | | | 1 | | | | | | | |
| 12 | 12 | ļ | | | | 10.0' | As above, saturated, slight H ₂ S ode | nr. | | | | | | 1 |
| | 11 | | | | | 12.0 | , to above, saturated, siight i 120 out | ··· | | | | | 0.5 | |
| 13 | 9 | S-7 | 12' - 14' | 25 | 0.6-ft. | | | | | | | | | |
| | 16 | | | | | | | | | | | | | |
| 14 | | | | <u></u> | | 14.01 | As above saturated wary slight | S odor | | | | | | - |
| | 12 | | | | | 14.0 | As above, saturated, very slight H ₂ | o odor. | | | | | 0.9 | |
| 15 | 12 | S-8 | 14' - 16' | 27 | 1.0-ft. | | | | | | | | | |
| 1 | 15 | ł | | I | 1 | l | | | | | | | 1 | 1 1 |

LEGEND

S - SPLIT SPOON SOIL SAMPLE

C - ROCK CORE SAMPLE

U - UNDISTURBED SOIL SAMPLE

NOTES: Native soil encountered between 16.2 & 18.0-ft. BGS

Monitoring well MW-BS39 installed within borehole BS-39

See Page 2 of 2

GENERAL NOTES:

16 17

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING # **BS-39** LBA

PROJECT

Remedial Investigation

Proposed Port Marina: Port of Rochester Rochester, New York

BORING SHEET

BS-39 2 OF 2

REMARKS

JOB#

206377 Phas

CHKD. BY:

CONTRACTOR:

DRILLER

Nothnagle Drilling Co.

BORING LOCATION

Neill Smith (Driller) & Thomas Villekolp (Helper) GROUND SURFACE ELEVATION

DATUM

LABELLA REPRESENTATIVE:

C. Stiles

START DATE

10-Nov-06

DATE

END DATE

WATER LEVEL DATA

TIME WATER CASING

10-Nov-06

TYPE OF DRILL RIG:

CME Model 75 Truck-mounted Rotary Drill Rig

AUGER SIZE AND TYPE

4.25-Inch ID

OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer

| 1 | DVEHBURDEN SAMPLING METHOD 2" x 2" Sp OCK DRILLING METHOD Not Applicable | | | | | spoon w | //140# Hammer | | | | | | | | | |
|-------------|---|-------|-----------|------------|----------|--------------|---|--------------------|--------|-----------|-------|---------|-------|----------|-----------------|---------------|
| | CDRILL | ING M | ETHOD | Not Applic | able | | | L | | | ŀ | | | | | - |
| D E P | | | S | AMPLE | | DEPTH (Feet) | S <i>i</i> | SAMPLE DESCRIPTION | | | | | | | PID READINGS | N O T |
| Т | BLOWS | NO. | DEPTH | N-VALUE | RECOVERY | ЕРТН | | | | | | | | | | Е |
| Н | /6" | | (FT.) | /RQD(%) | (FEET) | Δ | Cill Na | aterial Co | ntair | ina Clo | | | | | | S |
| 17 | 5 4 4 | S-9 | 16' - 18' | 8 | 0.2-ft. | | Gray cmf angular GRAVEL, s saturated, very slight H ₂ S odo | some cm Sa | | _ | - | ay Slag | g), | | 0.3 | |
| | 5 | | | | | | Mixed Lacustrine (| | Δllur | vial (Del | Itaic |) Denc | osite | | | |
| 18 | 1 | | | | | 18.0' | PEAT, saturated, no odors. | | | | | ,, | | <u>-</u> | | |
| 19 | 4 | S-10 | 18' - 20' | 2 | 0.8-ft. | | | | | | | | | | 0.2 | |
| 20 | 3 | | | | | | Rottom | of Boring | @ 20.0 | n-foot RG | : C | | | | | - |
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LEGEND

NOTES:

- S SPLIT SPOON SOIL SAMPLE
- U UNDISTURBED SOIL SAMPLE
- C ROCK CORE SAMPLE

GENERAL NOTES:

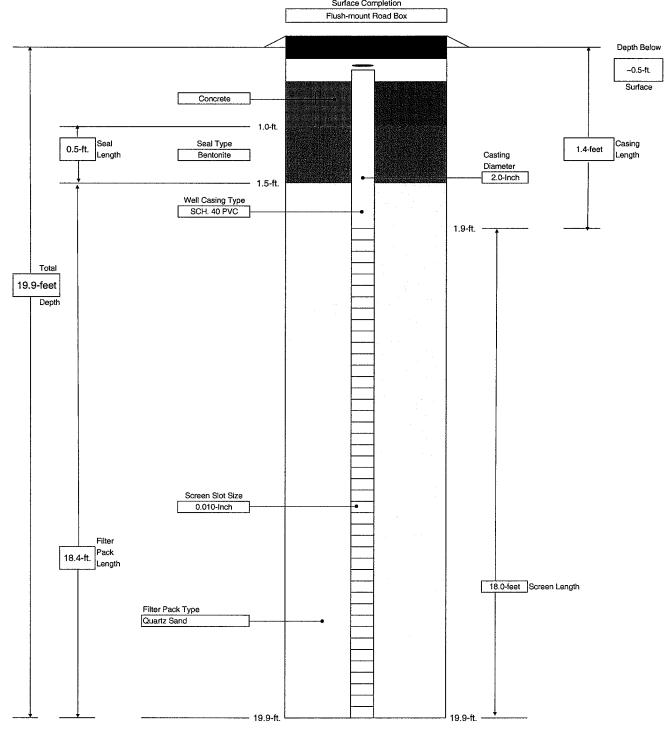
- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

LBA

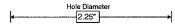
BORING #

BS-39

MW-BH6 (BH-6) PROJECT WELL ID SHEET 1 OF 1 Remedial Investigation Proposed Port Marina: Port of Rochester JOB# 206377 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS Rochester, New York CHKD. BY: CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION Proposed Port Marina Footprint DRILLER GROUND SURFACE ELEVATION DATUM Kevin Bush LABELLA REPRESENTATIVE: START DATE END DATE C. Stiles 31-Aug-06 31-Aug-06 WATER LEVEL DATA TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig DATE TIME WATER CASING REMARKS AUGER SIZE AND TYPE 4.25-inch ID OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer ROCK DRILLING METHOD N/A Surface Completion

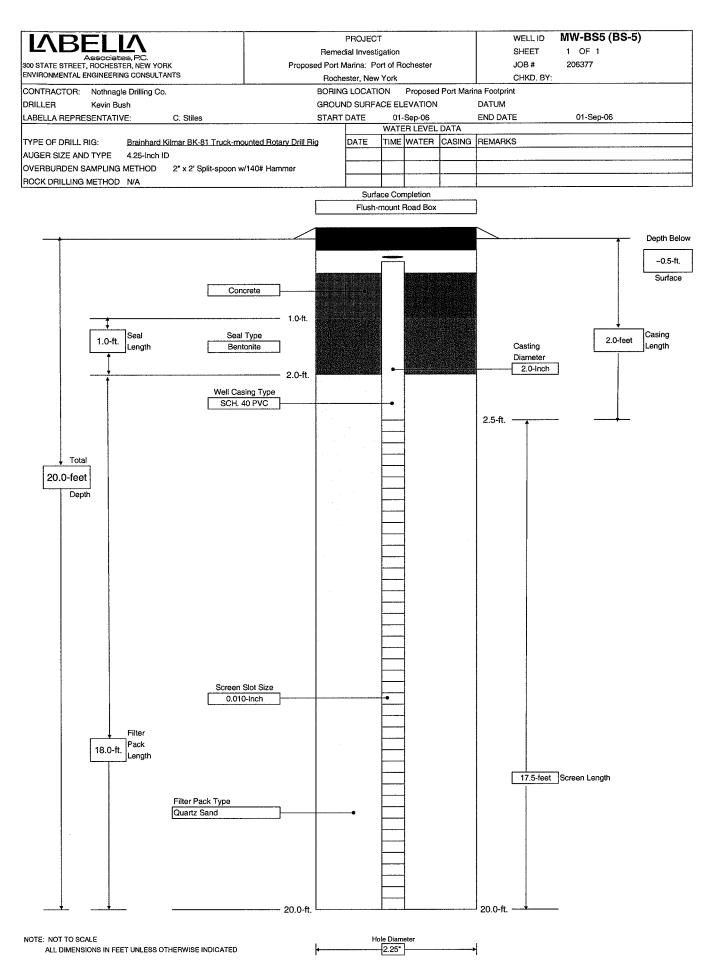


NOTE: NOT TO SCALE ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED



GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



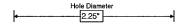
GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

MW-BS6 (BS-6) PROJECT WELL ID SHEET 1 OF 1 Remedial Investigation Proposed Port Marina: Port of Rochester JOB# 206377 ENVIRONMENTAL ENGINEERING CONSULTANTS Rochester, New York CHKD, BY: CONTRACTOR: Nothnagle Drilling Co. BORING LOCATION Proposed Port Marina Footprint DRILLER Kevin Bush GROUND SURFACE ELEVATION DATUM LABELLA REPRESENTATIVE: C. Stiles START DATE 05-Sep-06 END DATE 05-Sep-06 WATER LEVEL DATA TIME WATER CASING REMARKS TYPE OF DRILL RIG: Brainhard Kilmar BK-81 Truck-mounted Rotary Drill Rig DATE AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer ROCK DRILLING METHOD N/A Surface Completion Flush-mount Road Box Depth Below ~0.5-ft. Surface Concrete 1.0-ft. Seal Type 0.8-ft. 2.0-feet Casting _ength Bentonite Diameter 2.0-Inch 1.8-ft. Well Casing Type SCH. 40 PVC 2.3-ft -Total 19.8-feet Depth Screen Slot Size 0.010-Inch Filter Pack 18.0-ft. 17.5-feet Screen Length Filter Pack Type Quartz Sand

NOTE: NOT TO SCALE

ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED



19.8-ft.

GENERAL NOTES

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

19.8-ft.

MW-BS39 (BS-39) WELL ID **PROJECT** SHEET 1 OF 1 Remedial Investigation Proposed Port Marina: Port of Rochester JOB# 206377 300 STATE STREET, ROCHESTER, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS Rochester, New York CHKD. BY: Proposed Port Marina Parking Garage BORING LOCATION CONTRACTOR: Nothnagle Drilling Co. DRILLER GROUND SURFACE ELEVATION DATUM Neill Smith LABELLA REPRESENTATIVE: START DATE 10-Nov-06 END DATE 10-Nov-06 C. Stiles WATER LEVEL DATA TIME WATER CASING REMARKS TYPE OF DRILL RIG: CME Model 75 Truck-mounted Rotary Drill Rig DATE AUGER SIZE AND TYPE 4.25-Inch ID OVERBURDEN SAMPLING METHOD 2" x 2' Split-spoon w/140# Hammer ROCK DRILLING METHOD N/A Surface Completion Flush-mount Road Box Depth Below ~0.5-ft. Surface Concrete 1.0-ft. Seal Type Casing 4.3-feet 2.0-ft. Casting Bentonite Length Diameter 2.0-Inch 3.0-ft. Well Casing Type SCH. 40 PVC 4.8-ft. -Total 19.8-feet Depth Screen Slot Size 0.010-Inch Filter Pack 17.0-ft. 15.0-feet Screen Length Filter Pack Type Quartz Sand 19.8-ft. -20.0-ft. Hole Diameter NOTE: NOT TO SCALE ALL DIMENSIONS IN FEET UNLESS OTHERWISE INDICATED 2.25"

GENERAL NOTES:

- 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL
- 2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.



Well Volume (2" well) = 0.163-gal/ft.

GROUNDWATER DEVELOPMENT FORM

| 300 STA | ATE STREET, 54-6110 | | ΓER, NY 5) 454-3066 | WE | LL I.D. | MW-I | BS6 | |
|---------------------------------------|--|------------|------------------------|--|----------------|-------------|--|---|
| Project Nam | | | d Port Marin | na | , | | Project No.: 206377 Phase 2a | a |
| Location: | 10. | | | Cochester, New Y | York | • | 110,000110,20002 | <u></u> |
| Developmen | nt Ry | Craig A. | | Ochostor, 1101. | IOIK | • | Date: September 7, 2006 | |
| Weather: | пъу. | | Cloudy; ~68 | | | • | Date. Deptember 1, 2000 | |
| | OLUME CA | | |) T | | • | | |
| | | | | | Charles Water | T1. | 4 CO T4 | |
| Well Diame | | | -Inch | | Static Water | | 4.68 -Feet | |
| Depth of W | eli: | 18.65 | -Feet | - | Single Well | Volume: | 2.3 -Gallons | |
| PURGE & | SAMPLING | G METH | OD | | | | | |
| Bailer | | PVC -De | dicated | _ | Pump - | | | |
| Sampling D | evice: | | | _ | Pump Rate: | | | |
| FIELD PA | RAMETER | MEASU | REMENTS | 3 | | | | |
| Time | Gallons | pН | Temp | Conductivity | Turbidity | | Comments | |
| | Purged | | (oC) | (mS/cm) | (NTU) | ī | | |
| 0915 | ~0.25 | 6.84 | 19.5 | 1.0740 | <1,000 | <u> </u> | Turbid - Brownish-gray | |
| 0923 | 2.3 | 7.13 | 17.6 | 1.1520 | <1,000 | | No photochromic sheen | |
| 0930 | 4.6 | 7.2 | 17.5 | 1.1600 | <1,000 | | Slight to moderate H ₂ S odor | |
| 0937 | 6.9 | 7.24 | 17.5 | 1.1690 | <1,000 | | | |
| 0945 | 9.2 | 7.24 | 17.5 | 1.1750 | <1,000 | | | |
| 0951 | 11.5 | 7.25 | 17.6 | 1.1680 | <1,000 | | | |
| 0959 | 13.8 | 7.26 | 17.7 | 1.1640 | <1,000 | | | |
| 1007 | 16.1 | 7.24 | 17.6 | 1.1670 | <1,000 | | | |
| 1013 | 18.4 | 7.25 | 17.7 | 1.1700 | <1,000 | | | |
| 1042 | 20.7 | 7.28 | 17.9 | 1.1760 | <1,000 | <u> </u> | | |
| 1050 | 23.0 | 7.27 | 17.7 | 1.1820 | <1,000 | <u> </u> | | |
| | | | | ' | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
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| | | + | | | | | | |
| | | + | | | | | | |
| | | + | | | | | | |
| Total | 22.5 | Gallons | Durged | Purge Start Tin | ma: 0915 | | Purge End Time:1050 | |
| OBSERVA | | Ganons | ruigeu | ruige stait im | neo,13 | ' <u></u> | ruige End Time1000 | - |
| · · · · · · · · · · · · · · · · · · · | | cific Cond | Luctivity hav | ve stabilized, but | t no visual in | nprovement | t in turbidity. | |
| | olumes remov | | , | | | <u></u> | | |
| | | | | Market and the second s | , | | | |
| | | | | | | | | |
| | | | | | | | | |
| Well Volum | ne (1" well) : | = 0.0408-5 | gal/ft. | | Well Volum | e (4" well) | = 0.65-gal/ft. | |



Well Volume (2" well) = 0.163-gal/ft.

GROUNDWATER SAMPLING FORM

| 300 ST. | ATE STREET, | ROCHEST | ΓER, NY | WE | LL I.D. | MW- | BS6 |
|-------------|----------------|-------------------------|----------------|-----------------|---------------|---------------|--|
| PH: (585) 4 | | | 5) 454-3066 | | | | |
| Project Nar | ne: | Proposed | d Port Marin | a | | | Project No.: 206377 Phase 2a |
| Location: | | Port of R | Rochester, Ro | ochester, New | York | • | |
| Sampled By | y: | Craig A. | Stiles | | | • | Date: November 15, 2006 |
| Weather: | | Partly cl | oudy; Light | rain occurred o | vernight, ~48 | oF, NE Bre | eeze |
| PURGE V | OLUME CA | LCULA' | TION | | | | |
| Well Diame | eter: | 2.0 | -Inch | | Static Water | Level: | 4.75 -Feet |
| Depth of W | ell: | 18.69 | -Feet | • | Single Well | Volume: | 2.3 -Gallons |
| PURGE & | SAMPLING | S METH | OD | | | | |
| X Bailer | - Type: | PVC for | VOCs | | N Pump - | Туре | Geo Peristaltic Model Dual HE |
| Sampling D | Device: | Dedicate | d Bailer | | Pump Rate: | | ~75 milliliters per minute |
| FIELD PA | RAMETER | MEASU | REMENTS | | | | |
| Time | Gallons | pН | Temp | Conductivity | Turbidity | ORP | Comments |
| Time | Purged | pm | (oC) | (mS/cm) | (NTU) | (mV) | Comments |
| 0944 | ~0.03 | 7.55 | 16.6 | 1.206 | 36.9 | -205.0 | Drawdown = 0.02-ft |
| 0951 | 0.13 | 7.42 | 12.6 | 1.157 | 41.6 | -233 | |
| 0958 | 0.26 | 7.59 | 12.6 | 1.136 | 38.1 | -230 | Drawdown = 0.04-ft |
| 1004 | 0.40 | 7.65 | 12.4 | 1.137 | 37.4 | -227 | |
| 1010 | 0.52 | 7.67 | 12.7 | 1.132 | 38.0 | -234 | Drawdown = 0.05-ft |
| 1100 | Post Sample | | 12.9 | 1.226 | 33.8 | -243 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Total | 0.52 | -Gallons | Purged | Purge Start Tir | ne: 0944 | | Purge End Time:1010 |
| WELL SA | | | | | | | |
| Sample I.D. | | MW-BS | 5 | | Sample Time | e: | 1100 (1220 for VOCs) |
| No. of Cont | | 6 | | | Sample Pres | | 4°C + HCl (VOCs) & HNO ₃ (Metals) |
| Sampled | X VOCs | - 8260B T | CL | | VOCs - | 8260B NYS | DEC STARS Only Pesticides |
| For: | X SVOCs | - 8270C | ГСL | | X -Total / | Dissolved TA | AL Metals X PCBs |
| OBSERVA | TIONS: | | | | | | |
| - Purged wi | th peristaltic | pump usii | ng Low-Flow | v methodologie | s w/ Tubing o | dedicated to | well for future reuse) |
| - Readings | of pH, Specif | ic Conduc | ctivity, and I | Dissolved O2 ha | ve stabilized | to ±10% ar | nd turbidity less then 50 NTUs. |
| - Purge wat | er with mode | rate H ₂ S o | odor and no | photochromic s | heen. | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | , | | |
| | | | A-1 | | | | *************************************** |
| Well Volum | ne (1" well) = | 0.0408-g | gal/ft. | , | Well Volum | e (4" well) = | = 0.65-gal/ft. |



GROUNDWATER DEVELOPMENT FORM

300 STATE STREET, ROCHESTER, NY

WELL I.D. MW-BH6

| PH: (585) 454 | 4-6110 | FAX: (58 | 5) 454-3066 | | | | | | | | |
|---------------|--------------|-------------|--------------|------------------|---------------------------------------|---------------------------------------|---|--|--|--|--|
| Project Nam | ie: | Proposed | l Port Marin | na | | | Project No.: 206377 Phase 2a | | | | |
| Location: | | | | ochester, New Y | r ork | • | • | | | | |
| Developmen | nt By: | Craig A. | | | | • | Date: September 7, 2006 | | | | |
| Weather: | • | | loudy; ~68 | °F | · · · · · · · · · · · · · · · · · · · | • | , | | | | |
| PURGE VO | DLUME CA | • | • | | | • | | | | | |
| Well Diame | ter: | 2 | -Inch | | Static Water | Level: | 4.43 -Feet | | | | |
| Depth of We | ell: | 19.38 -Feet | | | Single Well | Volume: | 2.4 -Gallons | | | | |
| PURGE & | SAMPLIN | G METH | OD | | | | | | | | |
| Bailer - | Type: | PVC -De | dicated | | Pump - | Туре | | | | | |
| Sampling De | evice: | | | - | Pump Rate: | | | | | | |
| FIELD PAI | RAMETER | MEASU | REMENTS | | | | | | | | |
| Time | Gallons | pН | Temp | Conductivity | Turbidity | | Comments | | | | |
| | Purged | | (oC) | (mS/cm) | (NTU) | | m til G | | | | |
| 1100 | ~0.25 | 6.98 | 18.4 | 2.54 | <1,000 | | Turbid - Gray | | | | |
| 1106 1113 | 2.4 4.8 | 7.07 | 17.7 17.6 | 2.42 | <1,000 <1,000 | | No photochromic sheen Very slight H ₂ S odor | | | | |
| 1120 | 7.2 | 7.04 | 17.6 | 2.37 | <1,000 | | Very Stight 11 ₂ 5 Odol | | | | |
| 1126 | 9.6 | 6.97 | 17.7 | 2.36 | <1,000 | | | | | | |
| 1133 | 12.0 | 6.96 | 17.8 | 2.36 | <1,000 | | | | | | |
| 1139 | 14.4 | 6.92 | 17.6 | 2.36 | <1,000 | | | | | | |
| 1158 | 16.8 | 6.98 | 18.2 | 2.40 | <1,000 | | | | | | |
| 1205 | 19.2 | 6.97 | 17.8 | 2.39 | <1,000 | | | | | | |
| 1213 | 21.6 | 6.99 | 17.7 | 2.40 | <1,000 | | | | | | |
| 1220 | 24.0 | 6.97 | 17.8 | 2.42 | <1,000 | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Total | 24.0 | Gallons | Purged | Purge Start Tir | ne:1100 | | Purge End Time:1220 | | | | |
| OBSERVA' | TIONS: | | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | | uctivity hav | e stabilized, bu | t no visual in | nprovement | in turbidity. | | | | |
| - 10 well vol | umes remo | ved | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| TT7 11 X Y Y | /1 H 11 | 0.0400 | 116 | | TT7 11 T7 1 | (40 15 | 0.65 1/6 | | | | |
| Well Volum | | | | | Well Volum | e (4" well) | = 0.65-gal/ft. | | | | |
| Well Volum | e (Z Well) : | = 0.103-ga | III. | | | | | | | | |



GROUNDWATER SAMPLING FORM

| 300 STATE STREET, ROCHESTER, NY | | | | WE | LL I.D. | MW-] | BH6 | | |
|---------------------------------|--|------------------------|--------------|------------------|---------------|------------------------------|--|--|--|
| PH: (585) 45 | 4-6110 | FAX: (58 | 5) 454-3066 | | | | | | |
| Project Nan | ne: | Proposed | l Port Marin | a | | | Project No.: 206377 Phase 2a | | |
| Location: | | | | ochester, New Y | ork/ | | | | |
| Sampled By | / : | Craig A. | Stiles | | | | Date: November 15, 2006 | | |
| Weather: | | Partly cle | oudy; Light: | rain occurred ov | vernight, ~48 | oF, NE Bre | eeze | | |
| PURGE V | OLUME CA | LCULA' | TION | | | | | | |
| Well Diame | eter: | 2.0 | -Inch | | Static Water | Level: | 4.36 -Feet | | |
| Depth of W | ell: | 19.42 | -Feet | | Single Well | Volume: | 2.5 -Gallons | | |
| PURGE & SAMPLING METHOD | | | | | | | | | |
| X Bailer | - Type: | PVC for | VOCs | | Rump - | Type | Geo Peristaltic Model Dual HE | | |
| Sampling D | evice: | Dedicate | d Bailer | • | Pump Rate: | | ~60 milliliters per minute | | |
| FIELD PA | RAMETER | MEASU | REMENTS | • | | | | | |
| Time | Gallons | рН | Temp | Conductivity | Turbidity | ORP | Comments | | |
| | Purged | | (oC) | (mS/cm) | (NTU) | (mV) | | | |
| 1112 | ~0.03 | 7.13 | 14.6 | 2.38 | 14.3 | -156.0 | Drawdown = 0.03-ft | | |
| 1117 | 0.08 | 7.10 | 14.5 | 2.40 | 17.9 | -134.9 | D 1 007.6 | | |
| 1122 | 0.16 | 7.01 | 14.5 | 2.40 | 21.7 | -128.4 | Drawdown = 0.07-ft | | |
| 1127 1132 | 0.24 | 7.00 | 14.6 14.5 | 2.41 | 24.9 25.6 | -122.7 -119.1 | Drawdown = 0.08-ft | | |
| 1225 | Post Sample | | 14.2 | 2.43 | 34.0 | -121.7 | Diawdowii – 0.00-ii | | |
| 1225 | l Ost Sample | 7.05 | 17.2 | 2.37 | 34.0 | 121.7 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Total | 0.32 | -Gallons | Purged | Purge Start Tir | ne:1112 | <i>,</i> | Purge End Time:1132 | | |
| WELL SA | MPLING | - | | | | | | | |
| Sample I.D | | MW-BH | 16 | | Sample Tim | e: | 1225 (1325 for VOCs) | | |
| No. of Cont | | 6 | | • | Sample Pres | | 4°C + HCl (VOCs) & HNO ₃ (Metals) | | |
| | | | | • | | | | | |
| Sampled | == | - 8260B T s - 8270C | | | | - 8260B N YS Dissolved Ta | | | |
| For: | | 5 - 82/UC | ICL | | LX -10tal / | Dissolved 17 | ALI Metals | | |
| OBSERVA | | | · · · | | | | | | |
| | | | | | | | o well for future reuse) | | |
| | | | | | | to ±10% a | nd turbidity less then 50 NTUs. | | |
| - Purge wat | - Purge water with very slight H ₂ S odor and no photochromic sheen. | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Well Volum | ne (1" well) = | = 0.0408- | gal/ft. | | Well Volum | e (4" well) | = 0.65-gal/ft. | | |
| | Well Volume (1" well) = 0.0408-gal/ft. Well Volume (4" well) = 0.65-gal/ft. Well Volume (2" well) = 0.163-gal/ft. | | | | | | | | |



GROUNDWATER DEVELOPMENT FORM

300 STATE STREET, ROCHESTER, NY

| WEL | L I.D. | . M | W-B | S 5 | |
|-----|--------|------------|-----|------------|--|
| | | | | | |

| PH: (585) 454 | 4-6110 | FAX: (58 | 5) 454-3066 | | | | | |
|-------------------------|---|----------------|--------------|-------------------|------------------|--|-----------------------------------|----|
| Project Nam | ie: | Proposed | l Port Marin | na | | | Project No.: 206377 Phase 2a | |
| Location: | | Port of R | ochester, R | ochester, New | York | - | | |
| Developmen | at By: | Craig A. | Stiles | | | - | Date: September 7, 2006 | |
| Weather: | - | | loudy; ~68 | °F | | - | • , | |
| PURGE VO | DLUME CA | LCULA' | ΓΙΟΝ | | | | | |
| Well Diamet | ter: | 2 | -Inch | | Static Water | r Level: | 5.26 -Feet | |
| Depth of We | ell: | 19.34 | -Feet | • | Single Well | Volume: | 2.3 -Gallons | |
| PURGE & SAMPLING METHOD | | | | | | | | |
| Bailer - | Bailer - Type: PVC -Dedicated Pump - T | | | - Type | | | | |
| Sampling De | | | | - | Pump Rate: | | | |
| FIELD PAI | D PARAMETER MEASUREMENTS | | | | | | | |
| Time | Gallons | InH I 'I 'I 'I | | | Comments | | | |
| 1235 | Purged ~0.25 | 6.66 | (oC) 20.1 | (mS/cm) | (NTU) | | Turbid - Brown | |
| 1242 | 2.3 | 6.84 | 17.9 | 2.42 2.44 | <1,000 <1,000 | | No photochromic sheen | |
| 1250 | 4.6 | 6.96 | 18.2 | 2.45 | <1,000 | | Moderate H ₂ S odor | |
| 1300 | 6.9 | 7.00 | 18 | 2.45 | <1,000 | | Triodorato Tr ₂ S odor | |
| 1324 | 9.2 | 7.04 | 18 | 2.48 | <1,000 | | | |
| 1332 | 11.5 | 7.13 | 18.1 | 2.49 | <1,000 | | | |
| 1340 | 13.8 | 7.17 | 18 | 2.49 | <1,000 | | | |
| 1347 | 16.1 | 7.16 | 18.2 | 2.50 | <1,000 | | | |
| 1353 | 18.4 | 7.19 | 18.1 | 2.49 | <1,000 | | | |
| 1400 | 20.7 | 7.21 | 18.1 | 2.48 | <1,000 | | | |
| 1407 | 23.0 | 7.19 | 18.2 | 2.49 | <1,000 | | | |
| 1413 | 25.3 | 7.22 | 18.1 | 2.48 | <1,000 | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | —— |
| | | | | | | | | |
| Total | 25.3 | -Gallons | Purged | Purge Start Tin | ne:1235 | <u>. </u> | Purge End Time:14.13 | |
| OBSERVA' | TIONS: | | | | | | | |
| - Readings o | f pH & Spe | cific Cond | uctivity hav | e stabilized, but | no visual in | nprovement | in turbidity. | |
| | umes remov | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | Vell Volume (1" well) = 0.0408-gal/ft. Well Volume (4" well) = 0.65-gal/ft. | | | | | | | |
| Well Volume | Well Volume (2" well) = 0.163-gal/ft. | | | | | | | |



Well Volume (1" well) = 0.0408-gal/ft.

Well Volume (2" well) = 0.163-gal/ft.

GROUNDWATER SAMPLING FORM

| 300 STATE STREET, ROCHESTER, NY PH: (585) 454-6110 FAX: (585) 454-3066 | | | | WE | LL I.D. | MW- | <u>BS5</u> |
|--|--|-----------|--|----------------------|--------------------|---------------------|--|
| Project Nar | ne: | Proposed | d Port Marin | ıa | | | Project No.: 206377 Phase 2a |
| Location: | | | | ochester, New Y | York | - | |
| Sampled By | / : | Craig A. | | • | | • | Date: November 15, 2006 |
| Weather: | • | | | rain occurred o | vernight, ~48 | - BoF, NE Bre | eeze |
| PURGE VOLUME CALCULATION | | | | | | | |
| Well Diame | eter: | 2.0 | -Inch | _ | Static Water | r Level: | 6.03 -Feet |
| Depth of W | ell: | 19.32 | -Feet | _ | Single Well | Volume: | 2.2 -Gallons |
| PURGE & | SAMPLING | G METH | OD | | | | |
| X Bailer | - Type: | PVC for | VOCs | _ | Pump - | - Type | Geo Peristaltic Model Dual HE |
| Sampling D | evice: | Dedicate | ed Bailer | | Pump Rate: | | ~70 milliliters per minute |
| FIELD PA | RAMETER | MEASU | REMENTS | , | | | |
| Time | Gallons Purged | pН | Temp (oC) | Conductivity (mS/cm) | Turbidity (NTU) | ORP (mV) | Comments |
| 1235 | ~0.03 | 7.81 | 14.6 | 2.40 | 49.4 | -78.1 | Drawdown = 0.04-ft |
| 1240 | 0.09 | 7.40 | 15.1 | 2.41 | 46.0 | -84.1 | |
| 1245 | 0.18 | 7.36 | 14.7 | 2.43 | 42.9 | -84.7 | Drawdown = 0.05-ft |
| 1250 | 0.28 | 7.39 | 15.0 | 2.42 | 44.6 | -85.3 | |
| 1255 | 0.37 | 7.34 | 14.7 | 2.42 | 45.9 | -84.7 | Drawdown = 0.04-ft |
| 1420 | Post Sample | 7.20 | 15.2 | 2.42 | 37.4 | -73.9 | |
| | | <u> </u> | | | | | |
| | | | | : | | | |
| | | | | | | | |
| Total | 0.37 | -Gallons | Purged | Purge Start Tir | ne:1235 | 5 | Purge End Time:1255 |
| WELL SA | MPLING | | | | | | |
| Sample I.D | | MW-BS | 5 | _ | Sample Tim | ne: | 1420 (1525 for VOCs) |
| No. of Cont | tainers: | 6 | | | Sample Pres | servation: | 4°C + HCl (VOCs) & HNO ₃ (Metals) |
| Sampled | X VOCs | - 8260B T | CL | | ☐ VOCs | - 8260B NYS | SDEC STARS Only Pesticides |
| For: | X SVOCs | - 8270C | TCL | | Total / | -Dissolved Ta | AL Metals X PCBs |
| OBSERVA | TIONS: | | | | | | |
| - Purged wi | th peristaltic | pump usi | ng Low-Flo | w methodologie | s w/ Tubing | dedicated to | o well for future reuse) |
| - Readings | of pH, Specif | ic Condu | ctivity, and | Dissolved O_2 ha | ve stabilized | l to <u>+</u> 10% a | nd turbidity less then 50 NTUs. |
| - Purge wat | - Purge water with slight H ₂ S odor and no photochromic sheen. | | | | | | |
| | | | | | | | |
| | | | 14 # W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | |

Well Volume (4" well) = 0.65-gal/ft.



GROUNDWATER DEVELOPMENT FORM

300 STATE STREET, ROCHESTER, NY

| WEL | \mathbf{L}] | [.D. | MV | V | -BS39 |
|-----|----------------|------|----|---|--------------|
| | | | | | |

| PH: (585) 45 | 4-6110 | FAX: (58 | 5) 454-3066 | | | | | |
|---------------|--|------------|----------------|--|----------------|-------------|--|--|
| Project Nam | ne: | | l Port Garag | | | • | Project No.: 206377 Phase 4 | |
| Location: | | | | ochester, New Y | York | | | |
| Developmen | ıt By: | Craig A. | | | | • | Date: November 13, 2006 | |
| Weather: | | Mostly C | loudy; ~68 | <u>°F</u> | | _ | | |
| PURGE VO | DLUME CA | ALCULA' | ΓΙΟΝ | | | | | |
| Well Diame | ter: | 2 | -Inch | | Static Water | r Level: | 8.2 -Feet | |
| Depth of We | ell: | 19.50 | -Feet | • | Single Well | Volume: | 1.8 -Gallons | |
| PURGE & | SAMPLIN(| G METH | OD | | | | | |
| Bailer - | - Туре: | PVC -De | dicated | | Pump - | Туре | | |
| Sampling De | evice: | | | Pump Rate: | | | | |
| FIELD PAI | RAMETER | MEASU | REMENTS | • | | | | |
| Time | Gallons | pН | Temp | Conductivity | Turbidity | | Comments | |
| | Purged | <u> </u> | (oC) | (mS/cm) | (NTU) | | | |
| 1340 | ~0.25 | 7.19 | 16.3 | 1.560 | <1,000 | | Turbid - Brown (Foundry sand brown) | |
| 1345 | 1.8 | 7.05 | 16.6 | 1.724 | <1,000 | | No photochromic sheen | |
| 1350 | 3.6 | 7.07 | 16.7 | 1.784 | <1,000 | | Moderate to strong H ₂ S odor | |
| 1355 | 5.4 | 6.83 | 16.5 | 1.781 | <1,000 | | | |
| 1400 | 7.2 | 6.7 | 16.6 | 1.789 | <1,000 | | | |
| 1405 | 9.0 | 6.68 | 16.5 | 1.799 | <1,000 | | | |
| 1410 | 10.8 | 6.71 | 16.6 | 1.816 | <1,000 | | | |
| 1436 | 12.6 | 6.79 | 15.2 | 2.01 | <1,000 | | | |
| 1444 | 14.4 | 6.84 | 16.3 | 1.900 | <1,000 | | | |
| 1454 | 16.2 | 6.88 | 16.5 | 1.925 | <1,000 | | | |
| 1500 | 18.0 | 6.91 | 16.6 | 2.02 | <1,000 | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | : | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Total | 18.0 | Gallons | Purged | Purge Start Tir | ne:1340 |) | Purge End Time:1500 | |
| OBSERVA' | TIONS: | | | | | | | |
| - Readings of | of pH & Spe | cific Cond | uctivity hav | e stabilized, bu | t no visual in | nprovement | in turbidity. | |
| | lumes remo | | idotivity ildv | o stabilized, ou | 110 110441 111 | ipro voinom | an turbiary. | |
| | | | | ······································ | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Well Volum | e (1" well) : | = 0.0408-9 | gal/ft. | | Well Volum | e (4" well) | = 0.65-gal/ft. | |
| | Well Volume (1" well) = 0.0408-gal/ft. Well Volume (4" well) = 0.65-gal/ft. Well Volume (2" well) = 0.163-gal/ft. | | | | | | | |
| | | | | | | | | |



Well Volume (1" well) = 0.0408 -gal/ft.

Well Volume (2" well) = 0.163-gal/ft.

GROUNDWATER SAMPLING FORM

| 300 STATE STREET, ROCHESTER, NY PH: (585) 454-6110 FAX: (585) 454-3066 | | | | WE | LL I.D. | MW- | BH39 |
|--|----------------|-------------------------|---------------|-----------------|---------------|--------------|--|
| Project Nan | ne: | Proposed | l Port Garag | e | | | Project No.: 206377 Phase 4 |
| Location: | | Port of R | lochester, Ro | ochester, New Y | York | | |
| Sampled By | ' : | Craig A. | Stiles | | | | Date: November 15, 2006 |
| Weather: | | Partly cle | oudy; Light | rain occurred o | vernight, ~48 | oF, NE Bre | eze |
| PURGE V | DLUME CA | LCULA | ΓΙΟΝ | | | | |
| Well Diame | ter: | 2.0 | -Inch | | Static Water | Level: | 8.19 -Feet |
| Depth of W | ell: | 19.5 | -Feet | | Single Well | Volume: | 1.8 -Gallons |
| PURGE & | SAMPLING | G METH | OD | | | | |
| X Bailer | - Type: | PVC for | VOCs | | Pump - | Туре | Geo Peristaltic Model Dual HE |
| Sampling D | evice: | Dedicate | d Bailer | • | Pump Rate: | | ~50 milliliters per minute |
| FIELD PA | RAMETER | MEASU | REMENTS | | | | |
| Time | Gallons | pН | Temp | Conductivity | Turbidity | ORP | Comments |
| | Purged | <u> </u> | (oC) | (mS/cm) | (NTU) | (mV) | |
| 1430 | ~0.03 | 7.09 | 14.1 | 1.869 | 94.8 | -172.8 | Drawdown = 0.05-ft |
| 1435 | 0.07 | 7.21 | 14.7 | 1.854 | 72.1 | -195.6 | |
| 1440 | 0.13 | 7.27 | 14.3 | 1.870 | 58.4 | -198.1 | Drawdown = 0.05-ft |
| 1445 | 0.20 | 7.25 | 14.6 | 1.881 | 48.4 | -200 | |
| 1450 | 0.26 | 7.23 | 14.7 | 1.890 | 47.6 | -198.6 | Drawdown = 0.06-ft |
| 1520 | Post Sample | 7.31 | 14.1 | 1.969 | 43.4 | -213 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Total | 0.26 | -Gallons | Purged | Purge Start Tir | ne:1430 | | Purge End Time:1450 |
| WELL SAI | MPLING | - | | | | | |
| Sample I.D. | | MW-BH | 39 | | Sample Tim | e: | 1520 (1620 for VOCs) |
| No. of Cont | ainers: | 6 | | | Sample Pres | ervation: | 4°C + HCl (VOCs) & HNO ₃ (Metals) |
| Sampled | X VOCs | - 8260B T | CL | | ☐ VOCs - | 8260B NYS | DEC STARS Only Resticides |
| For: | X SVOCs | - 8270C | rcl | | X Total / | Dissolved TA | AL Metals X PCBs |
| OBSERVA | TIONS: | | | | | | |
| - Purged wi | th peristaltic | pump usi | ng Low-Flov | w methodologie | s w/ Tubing | dedicated to | well for future reuse) |
| | | | | | | to ±10% ar | nd turbidity less then 50 NTUs. |
| - Purge wate | er with mode | rate H ₂ S o | odor and no | photochromic s | heen. | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Well Volume (4" well) = 0.65-gal/ft.



Appendix 2 Hydraulic Conductivity Test Calculation Reports

SLUG TEST

Hydraulic Conductivity Calculation*

| WELL | MW-BS39 | _ TEST N | NUMBER/II | ٥ | MW-BS39 T | Γest #2 |
|----------------------------------|--|-----------------------------------|----------------|--|-------------------------------|-----------------|
| CLIENT/LOCATION | City of Rochester DEQ | ? - Proposed | | | | |
| Names of data files | | | MW-BS39 | | | |
| Test Date 27-Nov-06 | _ Test | Start Time | 11:52:42 A | <u>.M</u> | | |
| | | | | | ts not required) |) |
| | 1st | | 2nd | <u>3d</u> | | |
| Time Lag (TL) from Ho/I | 'H curve = 0.9131 | sec | se | ,c | _sec | sec |
| Depth of well from ref. el | | ` ′ | Stickup | ft. above | | ground surface |
| Static water level from re- | | - ` ´ | Well is: | fully | x partially | penetrating |
| Height of well bottom fro | - : : | • | 35 (ft | The second of the second of the second | ···· • | |
| For a well with screen and | d casing diameter of | 2 | in = | 0.167 | ft. | |
| Length of well scre | een (le) = | 15.00 | ft | | | |
| Radius of filter pac | , , | 0.375 | ft | | | |
| Effective porosity of | | 0.30 | _ | | | |
| CALCULATION: | | | | | | |
| Radius of well scre | een (ri) = | 0.083 | ft | | | |
| Effective radius of | | The release being realistic being | | is much me | ore permeable t | than aquifer) |
| Radius of influence | , , | 3.08 | • | | | * , |
| Length of water co | • | 11.25 | ft | | | |
| If filter is much more per | meable than aquifer, | and lw < le | e, calculate r | rc | | |
| $rc = sqrt\{ri x ri x (1-n) +$ | ro x ro x n} | rc = | 0.217 ft | | | |
| lw/rw = 30.000 | le/rw = 40.00 | Ķ. | | | A= 2.64 | B = 0.421 |
| for partially penetrating w | well use: (for lw <le)< td=""><td>1.1/ln(lw/r</td><td>w) + {A+B</td><td>x ln(H-lw]/r</td><td>$(lw/rw) = \frac{1}{2}$</td><td>0.47</td></le)<> | 1.1/ln(lw/r | w) + {A+B | x ln(H-lw]/r | $(lw/rw) = \frac{1}{2}$ | 0.47 |
| $ln(R/rw) = 1/\{1.1/ln(lw/ru)\}$ | rw) + (A+Bln[(H-lw)/rw | '])/(lw/rw) = | | 2.105 | 0 600 600 601 601 | |
| for $lw \le le$ $K = rc$ | $x \text{ rc } x \ln(R/rw)/(2 x \text{ lw } x)$ | TL) | (ft/sec) | | | |
| RESULTS: | | | | | | |
| TL = 0.91309 sec | | | | | ave TL | 0.91309 sec |
| K= 4.82E-03 ft/sec | | | | | | 4.82E-03 ft/sec |

K= 1.47E-01 cm/sec

Equivalent to Freeze and Cherry (1979) Karst Limestone

1.47E-01 cm/sec

^{*}Method: Bouwer and Rice (1976), Bouwer, Herman; Ground Water v. 27,no. 3, p.304;1989.

SLUG TEST Hydraulic Conductivity Measurement, Rising Head Test

| WELL | MW-BS39 | TEST NUMBER/ID MW-BS39 Retest * | | | | | |
|-------------------|---------------------|--|--|--|--|--|--|
| CLIENT/LOC | ATION | City of Rochester DEQ / Proposed Port Garage Area Well | | | | | |
| Name of data file | | MW-BS39 Slug Test | | | | | |
| Test Date | 27-Nov-06 | Test Start Time11:52:42 | | | | | |
| Type of Test: | rising head test | | | | | | |
| Static Water L | evel from ref. elev | . = 8.25 feet Test Section Length = 15 feet | | | | | |
| Riser Diameter | r = | 2.0 inches Anisotropy Factor (m) = 1 | | | | | |
| Volume of Bai | iler = | 122 cu. in. Initial Drawdown = 1.22 feet | | | | | |
| Screen and cas | sing diameter = | 2.0 inches | | | | | |
| | | | | | | | |

| Time | Donath | TT | TTo/TT | | 10.00 | | | | | | | |
|---------|--------|--------|-----------------------|------------|-------------|-----------|---------|-----------|--------|----------|--------|---------|
| | Depth | | Ho/H | | 10.00 | | | | | | | |
| (mins.) | (feet) | (feet) | (ft./ft.) | | | | | | | | | |
| 0.0250 | 9.47 | 1.22 | |) { | | | | | | | | |
| 0.0333 | 9.28 | 1.03 | | ! | | | | | | | | |
| 0.0417 | 9.04 | 0.79 | ********************* | | | | | | | | 7 | |
| 0.0500 | 8.67 | 0.42 | | •. | | | | | | | / | |
| 0.0583 | 8.45 | 0.20 | | il | | | | | | | / - | |
| | | | 1.00 | 4 | | | | | | / / | | |
| | | | 1.00 | | | | | | | / | | |
| | | | 1.00 | Ho/H | | | | | | / | | |
| | | | 1.00 | — | | | | | | //• | | |
| | | | 1.00 | | | | | | | / | | |
| | | | 1.00 | | | | | | | | | |
| | | | 1.00 | | | | | | / | | | |
| | | | 1.00 | | | | | | / | | | |
| | | | 1.00 | | | | | | /. | | | |
| | | | 1.00 | | | | | | / | | | |
| | | | 1.00 | | | | | • | / | | | |
| | · | | 1.00 | | 4.00 | | | | | | | |
| | | | 1.00 | | 0.0000 | 0.0100 | 0.0200 | 0.0300 | 0.0400 | 0.0500 | 0.0600 | 0.0700 |
| | | | 1.00 | | 0.0000 | 0.0100 | 0.0200 | | mins. | 0.0000 | 0.0000 | 0.0700 |
| | | | 1.00 | | | | | 11110, | | | | |
| | | | | | | Y 1 | | · | т 1 | | - | |
| | | | 1.00 | | | Jse grapl | | un Ho/F | | | - | |
| | | | 1.00 | | (Ho/H)(| | (2) | 4.1 | (Ho/H | | t(1) | |
| | | | 1.00 | | 1.18 | _0 | .033 mi | ns. | 6.1 | · . · | 0.058 | mins. |
| | | | 1.00 | | | | | | | | | |
| | | | 1.00 | | TL = [t(t)] | 2)-t(1)]/ | ln(Ho/F | I)(2)-ln(| Ho/H)(| 1)]= | 0.015 | 2 mins. |

Note: A retest was conducted for the slug test of MW-BS39 because the initial test recovered to static conditions within 1.5-seconds which did not provide enough data points for hydraulic conductivity evaluation. For the retest, two (2) bailers tued in series were used for the slug.

SLUG TEST

Hydraulic Conductivity Calculation*

| WELL | MW-BS5 | TEST N | NUMBER/IE |) | MW-BS5 Tes | t #1 |
|--|--|---------------------------------|--------------------------|-----------------|---|------------------------------|
| CLIENT/LOCATION | City of Rochester DEQ | - Proposed | Port Marina | Area Well | | |
| Names of data files | | | MW-BS5 S | Slug Test | | |
| Test Date 27-Nov-06 | . Test | Start Time | 12:26:21 PN | Л | | |
| - | - 1st | | (extra TL m | easurements | s not required) | |
| Time Lag (TL) from Ho/H | H curve = 0.0829 | sec | sec | ; | _secse | c |
| Depth of well from ref. ele Static water level from ref Height of well bottom from For a well with screen and | f. elev.= $\frac{6.05}{\text{m bottom of aquifer (H)}}$ | • ' ' | Stickup Well is: 35 (ft. | ft. above fully | x partially | round surface penetrating |
| Length of well scre- Radius of filter pack Effective porosity of | k (ro) = | 17.50 0.375 0.30 | • | | | |
| CALCULATION: | TALIBATIKA LIKATARI ARIARI BARI BARI BARI BARI BARI BARI | | | | SI SI BARANSI BARANSI BARANSI BARANSI BARANSI BARANSI BARANSI BARANSI BARANSI BARANSI BARANSI BARANSI BARANSI | |
| Radius of well scree Effective radius of l Radius of influence Length of water col | borehole (rw) = e of slug (R) = | 0.083 0.375 3.61 13.45 | ft (if filter ft | is much mo | re permeable tha | n aquifer) |
| If filter is much more perm | neable than aquifer, | and lw < le | e, calculate ro | 2 | | |
| $rc = sqrt\{ri \ x \ ri \ x \ (1-n) + lw/rw = 35.867$ | ro x ro x n} $le/rw = 46.67$ | rc = | 0.217 ft | | A= 2.78 | B = 0.448 |
| for partially penetrating w | rell use: (for lw <le)< td=""><td>1.1/ln(lw/r</td><td>w) + {A+B ></td><td>د ln(H-lw]/r</td><td>w)}/(lw/rw) =</td><td>0.44</td></le)<> | 1.1/ln(lw/r | w) + {A+B > | د ln(H-lw]/r | w)}/(lw/rw) = | 0.44 |
| $ln(R/rw) = 1/\{1.1/ln(lw/rw)\}$ | w) + (A+Bln[(H-lw)/rw] | ')/(lw/rw) = | | 2.265 | | |
| for $lw \le le$ $K = rc x$ | x rc x ln(R/rw)/(2 x lw x) | TL) | (ft/sec) | | | |
| RESULTS: | | | | | | |
| TI - 0.092960 goo | | | | | m, 0 | 002060 000 |

4.78E-02 ft/sec

1.46E+00 cm/sec

K = 1.46E+00 cm/sec

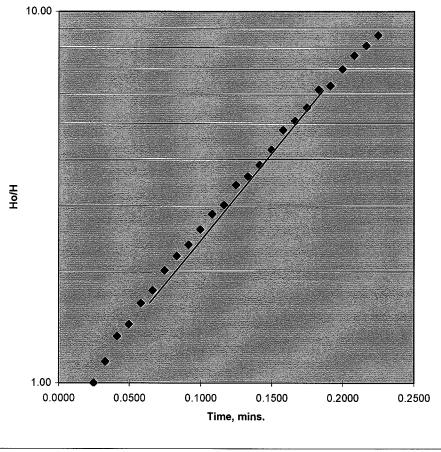
Equivalent to Freeze and Cherry (1979) Karst Limestone

^{*}Method: Bouwer and Rice (1976), Bouwer, Herman; Ground Water v. 27,no. 3, p.304;1989.

SLUG TEST Hydraulic Conductivity Measurement, Rising Head Test

| WELL | MW-BS5 | TEST NUMBER/ID | MW-BS5 |
|----------------|---------------------|----------------------------------|---------------------------------|
| CLIENT/LO | CATION | City of Rochester DEQ / Proposed | Port Marina Area Well |
| | | MW-BS5 Slug Test | |
| Test Date | 27-Nov-06 | Test Start Time 12:26:21 PM | _ |
| Type of Test: | rising head tes | | |
| Static Water l | Level from ref. ele | v = 6.05 feet Test S | ection Length = 17.5 feet |
| Riser Diamete | er = | 2.0 inches Anisot | ropy Factor (m) = 1 |
| Volume of Ba | ailer = | 122 cu. in. Initial | Drawdown = $\frac{2.59}{}$ feet |
| Screen and ca | sing diameter = | 2.0 inches | |
| | | | 1 |

| Time | е | Depth | Н | Но/Н |
|-------|----|--------|--------|-----------|
| (mins | .) | (feet) | (feet) | (ft./ft.) |
| 0.025 | 0 | 8.64 | 2.59 | 1.00 |
| 0.033 | 3 | 8.32 | 2.27 | 1.14 |
| 0.041 | 7 | 7.99 | 1.94 | 1.34 |
| 0.050 | 0 | 7.85 | 1.80 | 1.44 |
| 0.058 | 3 | 7.63 | 1.58 | 1.64 |
| 0.066 | 7 | 7.51 | 1.46 | 1.77 |
| 0.075 | 0 | 7.34 | 1.29 | 2.01 |
| 0.083 | 3 | 7.23 | 1.18 | 2.19 |
| 0.091 | 7 | 7.15 | 1.10 | 2.35 |
| 0.100 | 0 | 7.05 | 1.00 | 2.59 |
| 0.108 | 3 | 6.96 | 0.91 | 2.85 |
| 0.116 | 7 | 6.91 | 0.86 | 3.01 |
| 0.125 | 0 | 6.81 | 0.76 | 3.41 |
| 0.133 | 3 | 6.77 | 0.72 | 3.60 |
| 0.141 | 7 | 6.72 | 0.67 | 3.87 |
| 0.150 | 0 | 6.66 | 0.61 | 4.25 |
| 0.158 | 3 | 6.59 | 0.54 | 4.80 |
| 0.166 | 7 | 6.56 | 0.51 | 5.08 |
| 0.175 | 0 | 6.52 | 0.47 | 5.51 |
| 0.183 | 3 | 6.47 | 0.42 | 6.17 |
| 0.191 | 7 | 6.46 | 0.41 | 6.32 |
| 0.200 | 0 | 6.42 | 0.37 | 7.00 |
| 0.208 | 3 | 6.39 | 0.34 | 7.62 |
| 0.216 | 7 | 6.37 | 0.32 | 8.09 |
| 0.225 | 0 | 6.35 | 0.30 | 8.63 |
| 0.233 | 3 | 6.31 | 0.26 | 9.96 |
| 0.241 | 7 | 6.3 | 0.25 | 10.36 |
| 0.250 | 0 | 6.27 | 0.22 | 11.77 |



| Use graph to obtain Ho/H value to use for slope | | | | | | |
|---|-------------|-------------|-------|-------|--|--|
| (Ho/H)(2) | t(2) | (Ho/H)(1) | t(1) | | | |
| 1.52 | 0.064 mins. | 6.2 | 0.180 | mins. | | |
| | | | | _ | | |

TL = [t(2)-t(1)]/[ln(Ho/H)(2)-ln(Ho/H)(1)] = 0.0829 mins.

SLUG TEST Hydraulic Conductivity Calculation*

| WELLMV | W-BH6 | TEST N | JMBER/ID_ | M | W-BH6 Test | #1 |
|---|--|---|-------------------|-----------------------------------|----------------------------|----------------------------|
| CLIENT/LOCATION Ci | ty of Rochester DEQ | - Proposed P | ort Marina A | rea Well | | |
| Names of data files | |] | MW-BH6 Slu | ıg Test | | |
| Test Date 27-Nov-06 | Test | Start Time 1 | | | | |
| | 1st | (| extra TL meas | surements not | required) 4th | |
| Time Lag (TL) from Ho/H cu | urve = 0.0855 | sec | sec_ | sec | sec | |
| Depth of well from ref. elev. Static water level from ref. elevel Height of well bottom from be For a well with screen and care | lev.= $\frac{4.26}{\text{oottom of aquifer (H)}}$ | | · · · | t. above x ully x 0.167 ft. | ft. below gro partially | und surface penetrating |
| Length of well screen e Radius of filter pack (r Effective porosity of fi | .0) = | 18.00 ft 0.375 ft 0.30 | | | | |
| CALCULATION: | | | | | | |
| Radius of well screen (Effective radius of bor Radius of influence of Length of water colum | ehole (rw) = slug (R) = | 0.083 ft 0.375 ft 4.10 ft 15.14 ft | t (if filter is i | much more pe | ermeable than | aquifer) |
| If filter is much more permea | able than aquifer, | and lw < le, | calculate rc | | | |
| $rc = sqrt\{ri \times ri \times (1-n) + ro \times 1w/rw = 40.373$ | x ro x n $le/rw = 48.00$ | rc = | 0.217 ft | A= | 2.81 | B = 0.454 |
| for partially penetrating well | use: (for lw <le)< td=""><td>1.1/ln(lw/rw</td><td>) + {A+B x lr</td><td>n(H-lw]/rw)}/</td><td>(lw/rw) =</td><td>0.42</td></le)<> | 1.1/ln(lw/rw |) + {A+B x lr | n(H-lw]/rw)}/ | (lw/rw) = | 0.42 |
| $ln(R/rw) = 1/\{1.1/ln(lw/rw)\}$ | + (A+Bln[(H-lw)/rw] |)/(lw/rw) = | 2 | 2.392 | | |
| for $lw \le le$ $K = rc \times rc$ | x ln(R/rw)/(2 x lw x | ΓL) (1 | ft/sec) | | | |
| RESULTS: | | | | | | |
| TL = 0.085467 sec | | | | | ave TL 0.0 | 85467 sec |

ave TL 0.085467 sec

4.35E-02 ft/sec

1.33E+00 cm/sec

K= 1.33E+00 cm/sec

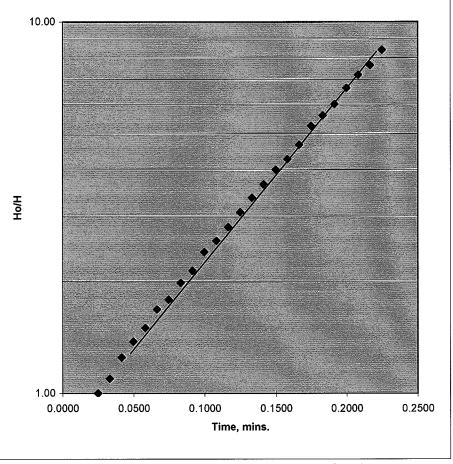
Equivalent to Freeze and Cherry (1979) Karst Limestone

^{*}Method: Bouwer and Rice (1976), Bouwer, Herman; Ground Water v. 27,no. 3, p.304;1989.

SLUG TEST Hydraulic Conductivity Measurement, Rising Head Test

| WELL | MW-BH6 | | TEST NUM | IBER/ID | MW-BH6 | |
|------------------------------|-----------------|-------------|---------------------|--------------|-----------------|---------|
| CLIENT/LOC | CATION | City of | Rochester DEQ / | Proposed Por | t Marina Area W | 'ell |
| Name of data | file | MW-B | 3H6 Slug Test | | | |
| Test Date | 27-Nov-0 | 06 Te | est Start Time 12:5 | 8:11 PM | | |
| Type of Test: | rising head | l test | | | | |
| Static Water I | Level from ref. | : elev. = | 4.26 feet | Test Section | on Length = | 18 feet |
| Riser Diamete | er = | | 2.0 inches | Anisotropy | y Factor (m) = | 1 |
| Volume of Bailer = | | 122 cu. in. | Initial Dra | wdown = | 2.52 feet | |
| Screen and casing diameter = | | | 2.0 inches | | | |

| Time | Depth | Н | Но/Н | |
|---------|--------|--------|-----------|--|
| (mins.) | (feet) | (feet) | (ft./ft.) | |
| 0.0250 | 6.78 | 2.52 | 1.00 | |
| 0.0333 | 6.56 | 2.30 | 1.10 | |
| 0.0417 | 6.28 | 2.02 | 1.25 | |
| 0.0500 | 6.09 | 1.83 | 1.38 | |
| 0.0583 | 5.94 | 1.68 | 1.50 | |
| 0.0667 | 5.76 | 1.50 | 1.68 | |
| 0.0750 | 5.67 | 1.41 | 1.79 | |
| 0.0833 | 5.53 | 1.27 | 1.98 | |
| 0.0917 | 5.44 | 1.18 | 2,14 | |
| 0.1000 | 5.31 | 1.05 | 2.40 | |
| 0.1083 | 5.24 | 0.98 | 2.57 | |
| 0.1167 | 5.16 | 0.90 | 2.80 | |
| 0.1250 | 5.08 | 0.82 | 3.07 | |
| 0.1333 | 5.01 | 0.75 | 3.36 | |
| 0.1417 | 4.95 | 0.69 | 3.65 | |
| 0.1500 | 4.89 | 0.63 | 4.00 | |
| 0.1583 | 4.85 | 0.59 | 4.27 | |
| 0.1667 | 4.80 | 0.54 | 4.67 | |
| 0.1750 | 4.74 | 0.48 | 5.25 | |
| 0.1833 | 4.71 | 0.45 | 5.60 | |
| 0.1917 | 4.68 | 0.42 | 6.00 | |
| 0.2000 | 4.64 | 0.38 | 6.63 | |
| 0.2083 | 4.61 | 0.35 | 7.20 | |
| 0.2167 | 4.59 | 0.33 | 7.64 | |
| 0.2250 | 4.56 | 0.30 | 8.40 | |
| 0.2333 | 4.54 | 0.28 | 9.00 | |
| 0.2417 | 4.52 | 0.26 | 9.69 | |
| 0.2500 | 4.50 | 0.24 | 10.50 | |



| Use graph to obtain Ho/H value to use for slope | | | | | | |
|---|--------------------|-----------|-------|-------|--|--|
| (Ho/H)(2) | t(2) | (Ho/H)(1) | t(1) | | | |
| 1.23 | <u>0.047</u> mins. | 9.3 | 0.220 | mins. | | |

TL = [t(2)-t(1)]/[ln(Ho/H)(2)-ln(Ho/H)(1)] = 0.0855 mins.



Appendix 3 Analytical Data Reports



STL Buffalo

10 Hazelwood Drive, Suite 106 Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991 www.stl-inc.com

ANALYTICAL REPORT

Job#: A06-A083, A06-A169, A06-A171, A06-A316

SIL Project#: NY2A8951.6

SDG#: A083

Site Name: <u>LaBella Associates</u>

Task: Proposed Port Marina

Mr. Dan Noll IaBella Associates 300 State St. Suite 201 Rochester, NY 14614

STL Buffalo

Project Manager

09/29/2006

Sample Data Summary Package

SAMPLE SUMMARY

| | | | SAMPLED | | RECEIVI | Ð |
|---------------|----------------------|--------|------------|-------|------------|-------|
| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | DATE | TIME | DATE | TIME |
| A6A08310 | BH-4 (1.2-1.5&2-3.5) | SOIL | | | 09/01/2006 | |
| A6A08311 | BH-5 | SOIL | | | 09/01/2006 | |
| A6A08312 | BH-6 | SOIL | | | 09/01/2006 | |
| A6A16902 | BS-1 (2-3.5) | SOIL | | | 09/06/2006 | |
| A6A16904 | BS-10 (.6-1.3) | SOIL | | | 09/06/2006 | |
| A6A08304 | BS-11(0.0-1.4) | SOIL | 08/31/2006 | 14:35 | 09/01/2006 | 17:20 |
| A6A08305 | BS-12(0.4-0.6) | SOIL | | | 09/01/2006 | |
| A6A16903 | BS-2 (2-2.4) | SOIL | 09/01/2006 | 08:23 | 09/06/2006 | 09:01 |
| A6A08301 | BS-3(1.1-1.7) | SOIL | | | 09/01/2006 | |
| A6A08302 | BS-4(1.0-1.5) | SOIL | | | 09/01/2006 | |
| A6A16906 | BS-5 COMP 1 | SOIL | 09/01/2006 | 12:05 | 09/06/2006 | 09:01 |
| A6A16906MS | BS-5 COMP 1 | SOIL | | | 09/06/2006 | |
| A6A16906SD | BS-5 COMP 1 | SOIL | | | 09/06/2006 | |
| A6A16907 | BS-5 COMP 2 | SOIL | | | 09/06/2006 | |
| A6A16907FD | BS-5 COMP 2 | SOIL | | | 09/06/2006 | |
| A6A31602 | BS-5 COMP 2 | SOIL | | | 09/06/2006 | |
| A6A16905 | BS-6 (2-2.7) | SOIL | | | 09/06/2006 | |
| A6A17101 | BS-7 (8.0-9.2) | SOIL | | | 09/06/2006 | |
| A6A08306 | BS-7(1-1.5 & 2-2.8) | SOIL | | | 09/01/2006 | |
| A6A08308 | BS-7(4-5.5 & 6-7.6) | SOIL | | | 09/01/2006 | |
| A6A08303 | BS-8(2.0-2.5) | SOIL | 08/30/2006 | 10:43 | 09/01/2006 | 17:20 |
| A6A17102 | BS-9 (14-15) | SOIL | | | 09/06/2006 | |
| A6A08307 | BS-9(2-3.2 & 4-4.6) | SOIL | | | 09/01/2006 | |
| A6A08309 | BS-9(6.0-6.9) | SOIL | | | 09/01/2006 | |
| A6A08313 | FIELD BLANK | WATER. | 08/29/2006 | 13:00 | 09/01/2006 | 17:20 |
| A6A08314 | TRIP BLANK | WATER | | | 09/01/2006 | |
| A6A16901 | Trip Blank | WATER | 09/01/2006 | 06:45 | 09/06/2006 | 09:01 |

METHODS SUMMARY

Job#: <u>A06-A083,A06-A169,A06-A171,A06-A316</u>

STL Project#: NY2A8951.6
SDG#: A083
Site Name: LaBella Associates

| | AN | ALYTICAL |
|---|----------------|----------|
| PARAMETER | | METHOD |
| METHOD 8260 - TCL PLUS STARS VOLATILE ORGANICS | SW8463 | 8260 |
| METHOD 8260 - TCL VOLATILE ORGANICS | <i>S</i> W8463 | 8260 |
| METHOD 8260 - TCL VOLATTLE ORGANICS + STARS | <i>S</i> W8463 | 8260 |
| METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS | SW8463 | 8270 |
| METHOD 8270 - TCL SEMI-VOLATILE ORGANICS | SW8463 | 8270 |
| METHOD 8081 - TCL PESTICIDES | SW8463 | 8081 |
| METHOD 8082 - POLYCHLORINATED BIPHENYLS | SW8463 | 8082 |
| Aluminum - Total | SW8463 | 6010 |
| Antimony - Total | SW8463 | 6010 |
| Arsenic - Total | SW8463 | 6010 |
| Arsenic - Total | SW8463 | 6020 |
| Barium - Total | SW8463 | 6010 |
| Beryllium - Total | SW8463 | 6010 |
| Cadmium - Total | SW8463 | 6010 |
| Calcium - Total | SW8463 | 6010 |
| Chromium - Total | SW8463 | 6010 |
| Cobalt - Total | SW8463 | 6010 |
| Copper - Total | SW8463 | 6010 |
| Iron - Total | SW8463 | 6010 |
| Lead - Total | SW8463 | 6010 |
| Lead - Total | SW8463 | 6020 |
| Magnesium - Total | SW8463 | 6010 |
| Manganese - Total | SW8463 | 6010 |
| Mercury - Total | SW8463 | 7470 |
| Mercury - Total | SW8463 | 7471 |
| Nickel - Total | SW8463 | 6010 |
| Potassium - Total | SW8463 | 6010 |
| Selenium - Total | SW8463 | 6010 |
| Silver - Total | SW8463 | 6010 |
| Sodium - Total | SW8463 | |
| Thallium - Total | SW8463 | |
| Vanadium - Total | SW8463 | |
| Zinc - Total | SW8463 | |
| Cyanide - Total | SW8463 | 9012 |
| Cyanide - Total | SW8463 | 9012A |
| SGT Total Petroleum Hydrocarbons | MCAWW | 1664 SGT |
| Total Carbon | OTHER | |

References:

MCAWW

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

OTHER

Non-Standard Protocol and Method Defined by State, Client QAPP or Developed by Laboratory

SW8463

"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: <u>A06-A083, A06-A169, A06-A171, A06-A316</u>

SIL Project#: NY2A8951.6

SDG#: A083

Site Name: LaBella Associates

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-A083

Sample Cooler(s) were received at the following temperature(s); 4.0 °C Lab to composite volatile soils samples by point.

All soil volumes have been sent to VOAS first. Once they are complete with their composite these samples will be available for prep/analyses by all other lab groups. Each group will need to composite by point.

Sample Cooler(s) were received at the following temperature(s); 4.0 °C LAB: Please composite volume for samples 06, 06MSD, 06MSD, 07, and 07FD prior to analysis.

TICS are not required for samples 01,07, and 07FD.

A06-A171

A06-A169

Sample Cooler(s) were received at the following temperature(s); 4.0 °C All samples were received in good condition.

A06-A316

Sample Cooler(s) were received at the following temperature(s); $4.0~^{\circ}$ C All samples were received in good condition.

GC/MS Volatile Data

The analytes 2-Hexanone and Methylene Chloride were detected in the soil Method Blank VBLK13 (A6B2606403) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

All aqueous, field generated, Quality Control samples were associated with soil samples. Therefore, all aqueous samples were analyzed as soils and evaluated using soil Quality Control Limits. The analytes 2-Hexanone and Methylene Chloride were detected in the water Method Blank VBLK13 (A6B2606402) at a level above the project established reporting limit. All associated positive hits have been qualified "B".

The analyte Trichlorofluoromethane was detected in Method Blanks VBLK96 (A6B2597702) and VBLK97 (A6B2602902) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte Methylene Chloride was detected in Method Blanks VBLK96 (A6B2597702) and VBLK97 (A6B2602902) at a level above the project established reporting limit. The associated samples had levels of Methylene Chloride less than ten times that of the Method Blank value. All sample detections for Methylene Chloride may potentially be due to laboratory contamination and should be evaluated accordingly. All associated sample detections were qualified with a "B".

Initial calibration standard curve A6I0001903-1 exhibited the %RSD of several compounds as greater than 15%. However, the mean RSD of all compounds is 10.69%.

Initial calibration standard curve A6I0001917-1 exhibited the %RSD of several compounds as greater than 15%. However, the mean RSD of all compounds is 9.78%.

Initial calibration standard curve A6I0001928-1 exhibited the %RSD of several compounds as greater than 15%. However, the mean RSD of all compounds is 8.04%.

All water samples were preserved to a pH less than 2.

All soil samples were composited in the laboratory, prior to analysis.

The analytes Bromodichloromethane and Chloroform were detected in the Trip Blank (A6A08314) at a level above the reporting limit. The analytes Acetone and Dibromochloromethane were detected in the Trip Blank (A6A08314) at a level below the project established reporting limit. Chloroform and Bromodichloromethane were not detected in any of the associated samples.

The analytes Acetone, Bromodichloromethane, Chloroform, Dibromochloromethane and Methylene Chloride were detected in the Trip Blank (A6A16901) at a level above the reporting limit. Bromodichloromethane, Chloroform and Dibromochloromethane were not detected in any of the associated samples.

GC/MS Semivolatile Data

The analyte Di-n-octyl phthalate was detected in Method Blank SBLK03 at a concentration below the project established reporting limit. The positive result for this analyte in sample, Field Blank, has been flagged accordingly. No further corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

Linear regression was used to calibrate all analytes that had a percent Relative Standard Deviation (%RSD) of greater than 15% in the initial calibration A6I00001891. No further corrective action was required.

Initial calibration standard curve A6I0001925 exhibited a percent relative Standard Deviation (%RSD) for the compounds 4-Nitrophenol, 2,4-Dinitrophenol, and Pentachlorophenol of greater than 15%. However, the mean RSD of all compounds is 7.84%. No further corrective action was required.

Linear regression was used to calibrate the compound 2,4-Dinitrophenol that had a percent Realtive Standard Deviation (%RSD) of greater than 15% in the initial calibration A6I0001891. No further corrective action was required.

For method 8270, the compounds 2,4-Dinitrophenol, 4-Nitrophenol, and /or Pentachlorophenol (PCP) exhibited percent Difference (%D) of greater than 20% for PCP and 40% for 2,4-Dinitrophenol and 4-Nitrophenol in the continuing calibration verifications. No further corrective action was taken and all samples are non-detect for these analyte(s).

GC Extractable Data

For method 8081, samples BS-5Comp 1, Matrix Spike and Spike Duplicate required dilution prior to analysis due to the heavy matrix present. The surrogate and spike recoveries are diluted out of all sample extracts with a dilution factor of 10% or greater.

For method 8082, Aroclor 1260 exhibited a percent difference greater than 15% from the expected amount in the associated continuing calibrations. The average of all analytes is within 15% and the associated laboratory quality control recoveries are compliant. No corrective action was required.

For method 8081, several compounds exhibited a percent difference greater than 15% from the expected amount in the associated continuing calibrations. The average of all analytes is within 15% and the associated laboratory quality control recoveries are compliant. No corrective action was required.

For method 8081, all water samples were re-extracted out of holding time due to low spike recoveries in the Matrix Spike Blank for several compunds, and contain the suffix "RE" in the STL sample number. Both sets of data are reported, and all data is to be considered estimated.

For method 8081 and 8082, all soil sample extracts and associated quality control required treatment with Copper prior to analysis due to the presence of elemental Sulfur.

Metals Data

The recoveries of sample BS-5 COMP 1 Matrix Spike exhibited results below the quality control limits for Aluminum, Calcium, Iron, Magnesium, Manganese, and Zinc. The recoveries of sample BS-5 COMP 1 Matrix Spike Duplicate exhibited results above the quality control limits for Aluminum, and below the quality control limits for Calcium, Iron, Manganese and Zinc. The sample result is more than four times greater than the spike added. The RPD of sample BS-5 COMP 1 Matrix Spike and Matrix Spike Duplicate exceeded the quality control limits for Aluminum, Iron, Magnesium, and Zinc. The ICS is acceptable.

The recoveries of sample BS-5 COMP 1 Matrix Spike exhibited results below the quality control limits for Antimony and Selenium. The recovery of sample BS-5 COMP 1 Matrix Spike Duplicate exhibited results above the quality control limits for Barium and below the quality control limits for Antimony, Arsenic, Cadmium, Chromium, Nickel, Selenium, Sodium and Thallium. Sample matrix is suspect. The RPD of sample BS-5 COMP 1 Matrix Spike and Matrix Spike Duplicate exceeded the quality control limits for Barium, Chromium, Nickel, Selenium, and Sodium. However, the LCS was acceptable.

The CCB, analyzed at 15:50, exhibited results above the detection limit for Iron. However, the samples were bracketed by compliant CCB's, therefore, no corrective action was necessary.

The recoveries of sample BS-5 COMP 1 exhibited results below the quality control limits for Aluminum, Iron, Manganese and Zinc. However, the LCS was acceptable.

The Serial Dilution of sample BS-1 (2-3.5) exceeded the quality control limits for Beryllium, Chromium, Lead, and Nickel. However, the Post Spike of this sample was compliant.

The Serial Dilution of sample BS-5 COMP 1 exceeded the quality control limits for Aluminum, Barium, Beryllium, Chromium, Cobalt, Copper, Iron, Lead, Magneisum, Manganese, Nickel, Vanadium, and Zinc. However, the LCS was acceptable.

The CRI, analyzed at 15:15, exhibited results above the quality control limits for Iron. However, the samples were bracketed by compliant CRI's, therefore, no corrective action was necessary.

Wet Chemistry Data

The recovery of sample BS-5 COMP 1 Matrix Spike exhibited results below the quality control limits for Total Cyanide. The recovery of sample BS-5 COMP 1 Matrix Spike Duplicate exhibited results below the quality control limits for Total Cyanide. However, the LCS was acceptable.

The relative percent difference between the Matrix Spike and Matrix Spike duplicate exceed quality control limits for Total Cyanide on sample BS-5 COMP 1.

Total Organic Carbon was subcontracted to STL Burlington. The complete subcontract report is included in this report as Appendix A. Comments pertaining to Total Organic Carbon may be found within the comment summary of the subcontract report.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Date: 09/29/2006 Time: 20:13:48 Dilution Log w/Code Information For Project NY2A8951.6, SDG A083 11/4386 Page:

Rept: AN1266R

| Client Sample ID | Lab Sample ID | Parameter (Inorganic)/Method (Organic) | <u>Dilution</u> | Code |
|---------------------|---------------|--|-----------------|-------|
| BS-7(1-1.5 & 2-2.8) | A6A08306 | Iron - Total | 10.00 | 800 |
| BS-7(1-1.5 & 2-2.8) | A6A08306 | Manganese - Total | 10.00 | 800 |
| BS-9(2-3.2 & 4-4.6) | A6A08307 | Calcium - Total | 5.00 | 800 |
| ВН-5 | A6A08311 | 8270 | 5.00 | 012 |
| BS-1 (2-3.5) | A6A16902 | Zinc - Total | 5.00 | 800 |
| BS-5 COMP 1 | A6A16906 | 8081 | 10.00 | 002 |
| BS-5 COMP 1 | A6A16906 | Calcium - Total | 5.00 | 008 - |
| BS-5 COMP 1 | A6A16906MS | 8081 | 10.00 | 002 |
| BS-5 COMP 1 | A6A16906MS | Calcium - Total | 5.00 | 800 |
| BS-5 COMP 1 | A6A16906SD | 8081 | 10.00 | 002 |
| BS-5 COMP 1 | A6A16906SD | Calcium - Total | 5.00 | 800 |

Dilution Code Definition:

002 - sample matrix effects

003 - excessive foaming

.004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other

Date: 09/29/2006 Time: 20:13:52 Requested Detection Limits < STL's PQL

12/4386 Page:

Rept: AN1520

The requested project specific reporting limits listed below were less than STL's standard quantitation limits. It must be noted that results reported below STL's standard quantitation limit (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

| Method | Parameter | Unit | Client DL | STL PQL |
|--------|--------------|-------|--------------|------------|
| KAHN | Total Carbon | MG/KG | 0.50 | 500 |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| | | | | | | | | |
|-----------------------|-------------------------|--------------|-------------------------|--------------|-------------|--------|----------------|------------------|
| CUSTOMER SAMPLE ID | LABORATORY SAMPLE ID | | ANALYTICAL REQUIREMENTS | | | | | |
| | | VOA GC/MS | BNA GC/MS | VOA GC | PEST PCB | METALS | TCLP HERB | WATER QUALITY |
| BH-4(1.2-1.5&2-3. | A6A08310 | SW8463 | SW8463 | - | SW8463 | SW8463 | _ | MCAWW |
| BH-5 | A6A08311 | SW8463 | SW8463 | - | SW8463 | SW8463 | <u>-</u> | MCAWW |
| BH-6 | A6A08312 | SW8463 | SW8463 | - | SW8463 | SW8463 | - | MCAWW |
| BS-1 (2-3.5) | A6A16902 | - | - | - | _ | SW8463 | _ | - |
| BS-10 (.6-1.3) | A6A16904 | - | - | _ | - | SW8463 | | <u>-</u> |
| BS-11(0.0-1.4) | A6A08304 | ı | - | - | - | SW8463 | _ | <u>.</u> |
| BS-12(0.4-0.6) | A6A08305 | - | | ı | - | SW8463 | - | _ |
| BS-2 (2-2.4) | A6A16903 | - | • | - | - | SW8463 | - | - |
| BS-3(1.1-1.7) | A6A08301 | _ | - | - | - | SW8463 | | - |
| BS-4(1.0-1.5) | A6A08302 | - | - | - | - | SW8463 | - | - |
| BS-5 COMP 1 | A6A16906 | SW8463 | SW8463 | - | SW8463 | SW8463 | _ | SW8463 |
| BS-5 COMP 2 | A6A16907 | SW8463 | SW8463 | - | SW8463 | - | - | OTHER |
| BS-6 (2-2.7) | A6A16905 | - | | <u>-</u> · | - | SW8463 | - | - |
| BS-7 (8.0-9.2) | A6A17101 | - | - | · - | - | - | - | OTHER |
| BS-7(1-1.5 & 2-2. | A6A08306 | SW8463 | SW8463 | - | SW8463 | SW8463 | - | SW8463 |
| BS-7(4-5.5 & 6-7. | A6A08308 | SW8463 | SW8463 | - | SW8463 | - | Ţ | SW8463 |
| BS-8(2.0-2.5) | A6A08303 | - | _ | - | | SW8463 | . - | - |
| BS-9 (14-15) | A6A17102 | - | - | - | _ | - | . . | OTHER |
| BS-9(2-3.2 & 4-4. | A6A08307 | SW8463 | SW8463 | | SW8463 | SW8463 | - | SW8463 |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSIS

| LAB NAME: SEVERN TRENT LABORATORIES, INC. | | | | | | | | |
|---|--------|------------------------|------------------------|--------------------|--------------------|--|--|--|
| LABORATORY SAMPLE CODE | MATRIX | ANALYTICAL PROTOCOL | DIGESTION PROCEDURE | MATRIX MODIFIER | DIL/CONC FACTOR | | | |
| BH-4(1.2-1.5&2-3.5) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BH-5 | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| ВН-6 | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-1 (2-3.5) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-10 (.6-1.3) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-11(0.0-1.4) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-12(0.4-0.6) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-2 (2-2.4) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-3(1.1-1.7) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-4(1.0-1.5) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-5 COMP 1 | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-5 COMP 2 | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-6 (2-2.7) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-7 (8.0-9.2) | SOIL | OTHER | OTHER | AS REQUIRED | AS REQUIRED | | | |
| BS-7(1-1.5 & 2-2.8) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-7(4-5.5 & 6-7.6) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-8(2.0-2.5) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-9 (14-15) | SOIL | OTHER | OTHER | AS REQUIRED | AS REQUIRED | | | |
| BS-9(2-3.2 & 4-4.6) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |
| BS-9(6.0-6.9) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED | | | |



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

LABELLA ASSOCIATES LABELLA ASSOCIATES HOD 8260 - TCL PIUS STARS VOLATUE

METHOD 8260 - TCL PLUS STARS VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

BH-4(1.2-1.5&2-3.5)

| Lab Name: <u>STL Buffalo</u> | Contract: | . · | 111-1(1.2-1.302-3.3) |
|---|---------------|----------------------|-----------------------|
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) <u>SOIL</u> | | Lab Sample ID: | A6A08310 |
| Sample wt/vol: $\underline{5.04}$ (g/ | mL) <u>G</u> | Lab File ID: | Q4966.RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 08/29/2006 09/01/2006 |
| % Moisture: not dec. <u>8</u> He | ated Purge: Y | Date Analyzed: | 09/08/2006 |
| GC Column: <u>DB-624</u> ID: <u>0.2</u> | <u>5</u> (mm) | Dilution Factor: | 1.00 |
| Soil Extract Volume: (uI | ı) | Soil Aliquot Volu | me: (11T.) |

CONCENIRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/K | UG/KG | | Q |
|------------|------------------------------|---------------|-------|------|-----|
| 67-64-1 | | • | . 27 | ט | |
| 71-43-2 | | · | 5 | U | · |
| li e | -Bromodichloromethane | | 5 | ַ ען | · |
| 75-25-2 | | | 5, | ַ ט | , I |
| | -Bromomethane | | 5 | ַ ט | · [|
| 78-93-3 | | | 27 | ט | |
| | -Carbon Disulfide | | 5 | ט | · |
| | -Carbon Tetrachloride | | 5 | U | |
| • | -Chlorobenzene | · | 5 | ט | |
| | -Chloroethane | | 5 | ์ บ | . |
| 67-66-3 | | | 5 | U | |
| 74-87-3 | -Chloromethane | | 5 | U | |
| 110-82-7 | -Cyclohexane | | 5 | U | |
| | -1,2-Dibromoethane | | 5 | ប | . |
| | -Dibromochloromethane | | 5 | ט | . |
| 96-12-8 | -1,2-Dibromo-3-chloropropane | , | 5 | ט | . |
| | -1,2-Dichlorobenzene | | 5 | U | . |
| | -1,3-Dichlorobenzene | | · 5 | ט | • } |
| | -1,4-Dichlorobenzene | | 5 | U | · |
| 75-71-8 | -Dichlorodifluoromethane | | 5 | U | ٠ . |
| | -1,1-Dichloroethane | | 5 | ט | . |
| 107-06-2 | -1,2-Dichloroethane | | 5 | บ | ٠ |
| 75-35-4 | -1,1-Dichloroethene | | 5 | ט | . |
| 156-59-2 | -cis-1,2-Dichloroethene | | 5 | U | · [|
| | -trans-1,2-Dichloroethene | | 5 | ט | · |
| 78-87-5 | -1,2-Dichloropropane | | 5 | ט | · |
| 10061-01-5 | -cis-1,3-Dichloropropene | | 5 | υ | · |
| 10061-02-6 | -trans-1,3-Dichloropropene | | 5 | ט | ١ |
| 100-41-4 | -Ethylbenzene | | 5 | U | · |
| 591-78-6 | | | 27 | U | · |
| 98-82-8 | -Isopropylbenzene | | . 5 | ប | . |
| 79-20-9 | -Methyl acetate | | 5 | ט | . |
| | -Methylcyclohexane | | 5 | U | . |
| | -Methylene chloride | | 7 . | B | ļ |

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LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL PLUS STARS VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

BH-4(1.2-1.5&2-3.5) Lab Name: STL Buffalo Contract: Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: A083 Matrix: (soil/water) SOIL Lab Sample ID: A6A08310 Sample wt/vol: __5.04 (q/mL) G Lab File ID: 04966.RR Level: (low/med) LOW Date Samp/Recv: 08/29/2006 09/01/2006 % Moisture: not dec. <u>8</u> Heated Purge: Y Date Analyzed: 09/08/2006

GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm) Dilution Factor: <u>1.00</u>

Soil Extract Volume: ____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: CAS NO. . COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> Q 108-10-1----4-Methyl-2-pentanone 27 U 1634-04-4----Methyl-t-Butyl Ether (MIBE) 5 IJ 100-42-5----Styrene 5 U 79-34-5----1,1,2,2-Tetrachloroethane 5 U 127-18-4----Tetrachloroethene 5 U 108-88-3----Toluene 5 U 5 U

120-82-1----1,2,4-Trichlorobenzene 71-55-6-----1,1,1-Trichloroethane U 79-00-5-----1,1,2-Trichloroethane U 76-13-1----1,1,2-Trichloro-1,2,2-trifluoroethane 5 U 75-69-4----Trichlorofluoromethane 5 U 79-01-6----Trichloroethene 5 U 108-05-4-----Vinyl acetate 27 U 75-01-4-----Vinyl chloride U 11 1330-20-7----Total Xylenes 16 U 103-65-1----n-Propylbenzene 5 U 99-87-6----p-Cymene 5 IJ 95-63-6----1,2,4-Trimethylbenzene 5 U 108-67-8----1,3,5-Trimethylbenzene 5 U 104-51-8----n-Butylbenzene 5 U

135-98-8----sec-Butylbenzene

91-20-3----Naphthalene

98-06-6----tert-Butylbenzene

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LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL PLUS STARS VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| Tab Name | OTT 12-56-1- | Garahara ada | | | BH-5 | | |
|----------|---------------------------|-----------------------------|---------------------------------------|-------------------------------|----------|----------------|---------|
| LaD Name | : SIL BULLATO | Contract: | | | | | |
| Lab Code | : <u>RECNY</u> Cas | e No.: SAS No.: | | SDG No.: <u>A083</u> | _ | | |
| Matrix: | (soil/water) <u>S</u> | OIL | Lé | ab Sample ID: | A6A08311 | | |
| Sample w | t/vol: _ | 5.00 (g/mL) <u>G</u> | L | ab File ID: | 04967.RR | | |
| Level: | (low/med) \underline{L} | <u>OW</u> | Da | ate Samp/Recv: | 08/29/20 | <u>06 09/0</u> | 01/2006 |
| % Moistu | re: not dec | 18 Heated Purge: Y | Da | ate Analyzed: | 09/08/20 | <u>06</u> | |
| GC Colum | n: <u>DB-624</u> | ID: <u>0.25</u> (mm) | D: | ilution Factor | :1.00 | | |
| Soil Ext | ract Volume: _ | (uL) | s | oil Aliquot Vo | lume: | (1 | ıL) |
| | CAS NO. | COMPOUND | | NIRATION UNITS L or ug/Kg) | - | Q | |
| | 67-64-1 | -Acetone | | | 14 | J | |
| | 71-43-2 | -Benzene | | | 6 | שׁו | |
| | 75-27-4 | -Bromodichloromethane | | | 6 | lu | |
| | 175-25-2 | -Bromoform | | | 6 | ע | 1 |
| • | 74-83-9 | -Bromomethane | | | 6 | ับ | +. · · |
| | 78-93-3 | -2-Butanone | | | 31 . | ប | |
| | 75-15-0 | -Carbon Disulfide | | | 6 | U | |
| | 56-23-5 | -Carbon Tetrachloride_ | | | 6 | U . | , |
| | 108-90-7 | -Chlorobenzene | | | 6 | U | |
| | 75-00-3 | -Chloroethane | | | 6 | ប | |
| | 167-66-3 | -Chloroform | | | 6 | U | |
| | 74-87-3 | -Chloromethane | | | 6 | ט י | |
| | 110-82-7 | -Cyclohexane | | | 6 | U | |
| | | -1,2-Dibromoethane | | | 6 | U | |
| | 124-48-1 | -Dibromochloromethane | | | 6 | ប | |
| | 96-12-8 | -1,2-Dibromo-3-chloropropar | æ | | 6 | י | - |
| | 95-50-1 | -1,2-Dichlorobenzene | • | | 6 | U | |
| • | 541-73-1 | -1,3-Dichlorobenzene | | | 6 | U | |
| | | -1,4-Dichlorobenzene | | | 6 | บ | |
| | 75-71-8 | -Dichlorodifluoromethane | | | 6 | บ | |
| | | -1,1-Dichloroethane | · · · · · · · · · · · · · · · · · · · | - | 6 | บ | |

75-34-3----1,1-Dichloroethane 107-06-2----1,2-Dichloroethane

75-35-4----1,1-Dichloroethene

78-87-5-----1,2-Dichloropropane

100-41-4----Ethylbenzene

98-82-8----Isopropylbenzene

108-87-2----Methylcyclohexane

79-20-9-----Methyl acetate

591-78-6----2-Hexanone

156-59-2----cis-1,2-Dichloroethene

156-60-5----trans-1,2-Dichloroethene

10061-01-5---cis-1,3-Dichloropropene

10061-02-6---trans-1,3-Dichloropropene

75-09-2----Methylene chloride

| • | | BH-5 | |
|--|---------------------------------------|--|---|
| ab Name: STL Buffalo Contract: | | | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: A083 | _ | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6A08311 | |
| Sample wt/vol: 5.00 (g/mL) \underline{G} | Lab File ID: | 04967.RR | |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 08/29/200 | 06 09/01/2006 |
| Moisture: not dec. <u>18</u> Heated Purge: Y | Date Analyzed: | 09/08/200 | <u>06</u> |
| 3C Column: <u>DB-624</u> ID: <u>0.25</u> (mm) | Dilution Factor | : 1.00 | |
| Soil Extract Volume: (uL) | Soil Aliquot Vo | lume: | (uL) |
| | ONCENTRATION UNITS (ug/L or ug/Kg) | | Q |
| 108-10-14-Methyl-2-pentanone 1634-04-4Methyl-t-Butyl Ether (MIBE) 100-42-5Styrene 79-34-51,1,2,2-Tetrachloroethane 127-18-4Tetrachloroethene 108-88-3Toluene 120-82-11,2,4-Trichlorobenzene 71-55-61,1,1-Trichloroethane 79-00-51,1,2-Trichloroethane 76-13-11,1,2-Trichloroethane 76-13-1Trichlorofluoromethane 79-01-6Trichloroethene 108-05-4Vinyl acetate 75-01-4Vinyl chloride 1330-20-7Total Xylenes 103-65-1Propylbenzene 99-87-6 | pethane | 31 66 66 66 66 66 66 66 66 66 66 66 66 66 | ם מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ מ |
| 91-20-3Naphthalene | | 6 | ט |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8260 - TCL PLUS STARS VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| | · | BH-6 | | |
|--|-----------------------|-----------|---------------------------------------|--------|
| Lab Name: STL Buffalo Contract: | | | | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> | | | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6A08312 | | |
| Sample wt/vol: 5.09 (g/mL) G | Lab File ID: | 04968.RR | · · · · · · · · · · · · · · · · · · · | |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 08/31/200 | <u>09/0</u> | 1/2006 |
| Moisture: not dec. <u>57</u> Heated Purge: Y | Date Analyzed: | 09/08/200 | <u>06</u> | |
| GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm) | Dilution Factor: | 1.00 | | |
| Soil Extract Volume: (uL) | Soil Aliquot Volu | me: | ່(ນ | L) |
| | CENTRATION UNITS: | | • | . • |
| | ug/Lorug/Kg) <u>[</u> | <u> </u> | Q . | |
| 67-64-1Acetone | | 14 | 1 . | |
| 1/1-43-2Benzene | | | U | |
| 75-27-4Bromodichloromethane | | 11 | U | |
| 1/5-25-2Bromoform | | | ש | |
| /=-03-9BLOUDIECHALE | | | ប | • . |
| 78-93-32-Butanone 75-15-0Carbon Disulfide | | | U | |
| 75-15-0Carbon Disulfide | | 11 | ן ט | |
| | | 11 | ט | |
| 1108-90-7Chlorobenzene | | 11 | ט | |
| 75-00-3Chloroethane | | 11 | ט | |
| (O/=00=5=====(f1(OfO)(Off)) | 1 | 11 | บ | |
| 74-87-3Chloromethane | · | 11 | ט | |
| 110-62-7Cyclonexame | | 11 | ប | |
| 106-93-41, 2-Dibrombetnane | | | ប | |
| 124-48-1Dibromochloromethane | | | υ | |
| 96-12-81,2-Dibromo-3-chloropropane | | | Ū | |
| 95-50-11,2-Dichlorobenzene | | | U | |
| 541-73-11,3-Dichlorobenzene | | | Ū | |
| 106-46-71,4-Dichlorobenzene | | 11 | ט | |
| 75-71-8Dichlorodifluoromethane | ***** | 11 | Ū | |
| 75-34-31,1-Dichloroethane | | 11 | Ū | |
| 107-06-21,2-Dichloroethane | | 11 | Ū | |
| 75-35-41,1-Dichloroethene | | 11 | ָ [֖] ֖֖֖ | |
| 156-59-2cis-1,2-Dichloroethene | | 11 | บี | |
| 156-60-5trans-1,2-Dichloroethene | | 11 | ָ ^ט | |
| 78-87-51,2-Dichloropropane | | 11 | บ | |
| 10061-01-5cis-1,3-Dichloropropene | | 11 | บ | |
| 10061-02-6trans-1,3-Dichloropropene | | 11 | บ | |
| 100-41-4Ethylbenzene | | 11 | ט | |
| 591-78-62-Hexanone | | 1 | ט | |
| 98-82-8Isopropylbenzene | | 1 | บ | |
| 79-20-9Methyl acetate | | | บ | |
| 108-87-2Methylcyclohexane | | | บ | |
| 75-09-2Methylene chloride | | | В | |
| The second secon | <u></u> | ~~ [| _ ا | |

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|------------|---------------------------------|----------------------------------|-----------------------|-----------------------------|---------------------------|-------------|---------|
| (ab Name: | STI. Buffalo | (| Contract: | | BH-6 | | |
| | <u> </u> | ` | | | | | |
| Lab Code: | <u>RECNY</u> Cas | se No.: | SAS No.: | SDG No.: | A083 | · | |
| Matrix: (s | soil/water) <u>s</u> | OIL | | Lab Sample | ID: <u>A6A0831</u> | 2 | |
| Sample wt/ | /vol: _ | 5.09 (g/mL) <u>(</u> | 3_ | Lab File I | D: <u>04968.</u> R | R | |
| Level: (| (low/med) <u>I</u> | <u>w</u> | • | Date Samp/ | Recv: <u>08/31/2</u> | 006 09/ | 01/2006 |
| % Moisture | e: not dec | 57 Heated | Purge: Y | Date Analy | zed: <u>09/08/2</u> | <u>006</u> | ÷ |
| GC Column: | : <u>DB-624</u> | ID: <u>0.25</u> (m | n) | Dilution F | actor:1.0 | <u>o</u> | |
| Soil Extra | act Volume: _ | (uL) | | Soil Aliqu | ot Volume: | . (1 | uL) |
| | TAS NO. | COMPOUND | | CONCENTRATION (ug/L or ug/K | UNITS: g) <u>UG/KG</u> | Q | - |
| | L634-04-4 L00-42-5 | -Styrene | yl Ether (MIBE)_ | | 57 11 11 | บ บ บ | |
| 1 | 79-34-5 127-18-4 108-88-3 | -Tetrachloroet | achloroethane hene | | 11 11 11 | ת ת | |
| 1 | L20-82-1 | | orobenzene | | 11 11 | ט | |
| 7 | 79-00-5 | -1,1,2-Trichlo | | oroethane | 11 11 | U U | |
| 7 | 75-69-4 | -Trichlorofluc -Trichloroethe | promethane | | 11 11 | U U | |
| 1 | L08-05-4 | -Vinyl acetate | e | | 57 23 | U U | |
| 1 | L330-20-7 | -Total Xvlenes | 3 | | 34 11 | บ บ | |
| 9 | 99-87-6 95-63-6 | -p-Cymene -1,2,4-Trimeth | vlbenzene | , | 11 11 | ប | |
| 1 | L08-67-8 | -1,3,5-Trimeth | nylbenzene ne | | 11 11 | ט | |
| [1 | L35-98-8 | -sec-Butylbenz | zene nzene | | 11 11 | บ | |
| 10 | 1 20 2 | Nonbehalama | | | 44 | 15 | 1 |

Client No.

| | | | BS-5 COMP 1 |
|---|-------------------|----------------------|-----------------------|
| Lab Name: STL Buffalo | Contract: | | <u> </u> |
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) <u>SOIL</u> | | Lab Sample ID: | A6A16906 |
| Sample wt/vol:5.40 (g/mL) | <u>G</u> | Lab File ID: | F2131.RR |
| Level: (low/med) <u>LOW</u> | • | Date Samp/Recv: | 09/01/2006 09/06/2006 |
| % Moisture: not dec. <u>11</u> Heated | l Purge: <u>Y</u> | Date Analyzed: | 09/11/2006 |
| GC Column: <u>DB-624</u> ID: <u>0.18</u> (π | m) | Dilution Factor: | 1.00 |
| Soil Extract Volume: (uL) | | Soil Aliquot Vol | ume: (uL) |

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|----------|-----------------------------|-----------------|-------|---------|
| 67-64-1 | | | 17 | J |
| 71-43-2 | | | 5 | U |
| | Bromodichloromethane | | 5 | U |
| | Bromoform | | 5 | ט |
| | Bromomethane | · | 5 | ט |
| 78-93-3 | 2-Butanone | | 26 | บ |
| 75-15-0 | Carbon Disulfide | · | 2 | J |
| 56-23-5 | Carbon Tetrachloride | | 5 | U |
| 108-90-7 | Chlorobenzene | | 5 | ש |
| | Chloroethane | | 5 | ש |
| 67-66-3 | Chloroform | | 5 | שן |
| | Chloromethane | | 5 | U |
| 110-82-7 | Cyclohexane | | 5 | U |
| 106-93-4 | 1,2-Dibromoethane | | 5 | U |
| 124-48-1 | Dibromochloromethane | | 5 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | € | 5 | ប |
| | 1,2-Dichlorobenzene | | 5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 5 | ់ ប |
| 75-71-8 | Dichlorodifluoromethane | | 5 | U |
| 75-34-3 | 1,1-Dichloroethane | | 5 | ט |
| 107-06-2 | 1,2-Dichloroethane | | 5 | ប |
| | 1,1-Dichloroethene | | 5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 5 | บ |
| 156-60-5 | trans-1,2-Dichloroethene | | 5 | U |
| | 1,2-Dichloropropane | | 5 | U |
| | cis-1,3-Dichloropropene | | 5 | U |
| | trans-1,3-Dichloropropene | | 5 | υ |
| | Ethylbenzene | | 5 | שו |
| | 2-Hexanone | | 26 | U |
| | Isopropylbenzene | | 5 | U |
| | Methyl acetate | | 5 | Ū |
| | Methylcyclohexane | | 5 | U |
| | Methylene chloride | | 6. | В |
| | 4 | | - | <u></u> |

Client No.

| Lab Name: STL Buffalo Contract: | | BS-5 COMP 1 |
|---|--------------------------------------|-----------------------|
| TWO PARCE. BILL BULLETO | · ··· | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: A083 | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | <u>A6A16906</u> |
| Sample wt/vol: <u>5.40</u> (g/mL) <u>G</u> | Lab File ID: | F2131.RR |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 09/01/2006 09/06/2006 |
| % Moisture: not dec. <u>11</u> Heated Purge: Y | Date Analyzed: | 09/11/2006 |
| GC Column: <u>DB-624</u> ID: <u>0.18</u> (mm) | Dilution Factor: | 1.00 |
| Soil Extract Volume: (uL) | Soil Aliquot Vol | ume: (uL) |
| | NCENTRATION UNITS: ug/L or ug/Kg) | |
| 108-10-14-Methyl-2-pentanone 1634-04-4Methyl-t-Butyl Ether (MIBE) 100-42-5Styrene 79-34-51,1,2,2-Tetrachloroethane 127-18-4Tetrachloroethene 108-88-3Toluene 120-82-11,2,4-Trichloroethane 79-00-51,1,1-Trichloroethane 79-01-51,1,2-Trichloroethane 76-13-11,1,2-Trichloroethane 76-13-1Trichlorofluoromethane 79-01-6Trichloroethene 75-01-4Vinyl chloride 1330-20-7Total Xylenes | ethane | 26 |

1330-20-7----Total Xylenes

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| | BS-5 COMP 1 |
|---|---|
| Lab Name: STL Buffalo Contract: | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: A6A16906 |
| Sample wt/vol: 5.40 (g/mL) G | Lab File ID: <u>F2131.RR</u> |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: 09/01/2006 09/06/2006 |
| % Moisture: not dec. 10.7 | Date Analyzed: 09/11/2006 |
| GC Column: <u>DB-624</u> ID: <u>0.18</u> (mm) | Dilution Factor:1.00 |
| Soil Extract Volume: (uL) | Soil Aliquot Volume:(uL) |
| Number TICs found: 2 | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> |

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|-------------|---------------|------|------------|------|
| 1. 115-07-1 | PROPENE | 1.18 | 12 | JN . |
| 2. | UNKNOWN | 1.38 | 8 | J |

| Lab Name: <u>STL Buffalo</u> | Contract. | | BS-5 C | OMP 2 | |
|---------------------------------------|-------------------------------|---|-----------------|-------|---------|
| <u> </u> | Concract. | - `` | | | |
| Lab Code: <u>RECNY</u> Case No.: | SAS No.: | SDG No.: <u>A083</u> | _ | | |
| Matrix: (soil/water) <u>SOIL</u> | | Lab Sample ID: | <u> A6A1690</u> | 7 | |
| Sample wt/vol: 5.25 | (g/mL) <u>G</u> | Lab File ID: | F2134.RI | ₹ | |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 09/01/20 | 09/0 | 06/2006 |
| % Moisture: not dec. 18 | Heated Purge: \underline{Y} | Date Analyzed: | 09/11/20 | 006 | |
| GC Column: <u>DB-624</u> ID: <u>(</u> | 0.18 (mm) | Dilution Factor | :1.00 | 2 | |
| Soil Extract Volume: | (uL) | Soil Aliquot Vo | lume: | (1 | ıL) |
| | | CONCENIRATION UNITS | _ | | |
| CAS NO. COMPO | IND | (ug/L or ug/Kg) | = | Q 1 | |
| 67-64-1Acetor | ne | | 16 | J | |
| 71-43-2Benzer | ne . | | 6 | บ | |
| 75-27-4Bromo | lichloromethane | | 6 | บี | |
| 1/5-25-2Bromot | tom | | 6 | Ū | |
| 74-83-9Bromor | methane | | 6 . | บี | |
| 78-93-32-Buta | anone | | 29 | Ū | |
| 75-15-0Carbon | | | 6 | ט | |
| 56-23-5Carbon | 1 Tetrachloride | · · | 6 | | |
| 108-90-7Chlore | obenzene | | 6 | U | |
| 75-00-3Chlom | othane | | | Ŭ | |
| 67-66-3Chlore | pethane | | 6 | U | |
| 74-87-3Chlom | mothana | | 6 | U | • |
| 110-82-7Cyclor | methane | | 6 | ប | |
| 10-62-7CyCTOI | Exame | | 6 . | U | |
| 106-93-41,2-Di | Loronbernane | · · · · · · · · · · · · · · · · · · · | 6 | U | |
| 124-48-1Dibron | iocnioromethane | | 6 | U | |
| 96-12-81,2-03 | ibromo-3-chloropropane | | 6 | ט | |
| 95-50-11,2-Di | | | 6 | ן טן | |
| 541-73-11,3-Di | | | 6 | ע | |
| 106-46-71,4-Di | chlorobenzene | | 6 | U | |
| 75-71-8Dichlo | | | 6 | U | |
| 75-34-31,1-Di | | | 6 | ע | |
| 107-06-21,2-Di | | | 6 | ן ט | • |
| 75-35-41,1-Di | | | 6 | ן טן | |
| 156-59-2cis-1, | 2-Dichloroethene | | 6 | ן ט | |
| 156-60-5trans- | 1,2-Dichloroethene | | 6 · | ט | |
| 78-87-51,2-Di | .chloropropane | | 6 | ן ט | |
| 10061-01-5cis-1, | 3-Dichloropropene | | 6 | υ | |
| 10061-02-6trans- | 1,3-Dichloropropene | *************************************** | 6 | Ū | |
| 100-41-4Ethylh | enzene | · · · · · · · · · · · · · · · · · · · | 6 | ט | |
| 591-78-62-Hexa | | | 29 | ט ו | |
| 98-82-8Isopro | | | 6 | ם | |
| 79-20-9Methyl | acetate | | 6 | מ | |
| 108-87-2Methyl | | | 6 | Ü | |
| 75-09-2 | | | · · | 15 | |

| | | BS-5 COME | 2 . |
|---|---|------------|-------------|
| Lab Name: STL Buffalo Contract: | | <u> </u> | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> | _ | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6A16907 | |
| Sample wt/vol: $\underline{5.25}$ (g/mL) \underline{G} | Lab File ID: | F2134.RR | |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 09/01/2006 | 09/06/2006 |
| Moisture: not dec. <u>18</u> Heated Purge: Y | Date Analyzed: | 09/11/2006 | <u> </u> |
| GC Column: <u>DB-624</u> ID: <u>0.18</u> (mm) | Dilution Factor | :1.00 | |
| Soil Extract Volume: (uL) | Soil Aliquot Vol | Lume: | (uL) |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | - | Q |
| 108-10-14-Methyl-2-pentanone 1634-04-4Methyl-t-Butyl Ether (MTBI 100-42-5Styrene 79-34-51,1,2,2-Tetrachloroethane 127-18-4Tetrachloroethene 108-88-3Toluene 120-82-11,2,4-Trichlorobenzene 71-55-61,1,1-Trichloroethane 79-00-51,1,2-Trichloroethane 76-13-11,1,2-Trichloro-1,2,2-trit 75-69-4Trichlorofluoromethane 79-01-6Trichloroethene | | 29 6 | |
| 75-01-4 | | 12 L | J |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| Inh Name. CTT Proffele | Clambran att . | | BS-5 COMP 2 | |
|----------------------------------|-----------------|--------------------------------------|-------------|------------|
| Lab Name: STL Buffalo | Contract: | | | |
| Lab Code: <u>RECNY</u> Case No.: | SAS No.: | SDG No.: <u>A083</u> | | |
| Matrix: (soil/water) SOIL | · | Lab Sample ID: | A6A16907 | |
| Sample wt/vol: 5.25 | (g/mL) <u>G</u> | Lab File ID: | F2134.RR | |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 09/01/2006 | 09/06/2006 |
| % Moisture: not dec. 17.6 | | Date Analyzed: | 09/11/2006 | |
| GC Column: <u>DB-624</u> ID: | 0.18 (mm) | Dilution Factor | :1.00 | |
| Soil Extract Volume: | (uL) | Soil Aliquot Vo | lume: | (uL) |
| Number TICs found:0 | | CONCENTRATION UNI (ug/L or ug/Kg) | | |
| CAS NO. | Compound Name | RT Est. | Conc. O | |

Client No.

| | | | BS-5 COMP 2 |
|--|-------------------|----------------------|-----------------------|
| Lab Name: <u>STL Buffalo</u> | Contract: | | |
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) <u>SOIL</u> | | Lab Sample ID: | A6A16907FD |
| Sample wt/vol: $\underline{5.27}$ (g/mL) | <u>G</u> | Lab File ID: | F2135.RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 09/01/2006 09/06/2006 |
| % Moisture: not dec. <u>18</u> Heate | d Purge: <u>Y</u> | Date Analyzed: | 09/11/2006 |
| GC Column: <u>DB-624</u> ID: <u>0.18</u> (| mm) | Dilution Factor: | 1.00 |
| Soil Extract Volume: (uL) | | Soil Aliquot Volu | ume: (uL) |
| | | | |

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/K | g) <u>UG/k</u> | <u>CG</u> Q | |
|------------|----------------------------|---------------|----------------|-------------|-----|
| 67-64-1 | | | 17 | J |] |
| 71-43-2 | | | 6 | U | |
| 75-27-4 | -Bromodichloromethane | | · 6 | U | ľ |
| 75-25-2 | | | 6 | . บ | |
| | -Bromomethane | · | 6 | U | |
| 78-93-3 | -2-Butanone | | 29 | U | 1 |
| | -Carbon Disulfide | | 6 | U | |
| 56-23-5 | -Carbon Tetrachloride | | 6 | ַט | |
| 108-90-7 | -Chlorobenzene | | 6 | ប | |
| 75-00-3 | -Chloroethane | | . 6 | U | |
| 67-66-3 | -Chloroform | | 6 | U | |
| | -Chloromethane | | 6 | ប | ı |
| 110-82-7 | -Cyclohexane | | 6 | υ - | |
| 106-93-4 | -1,2-Dibromoethane | · | 6 | U | |
| | -Dibromochloromethane | | 6 | ប | |
| 96-12-8 | -1,2-Dibromo-3-chloropropa | ane | 6 | U | 1 |
| 95-50-1 | -1,2-Dichlorobenzene | | 6 | U | 1 |
| | -1,3-Dichlorobenzene | | 6 | ប | ŀ |
| 106-46-7 | -1,4-Dichlorobenzene | | 6 | U | |
| | -Dichlorodifluoromethane | | · 6 | U | 1 |
| 75-34-3 | -1,1-Dichloroethane | | 6 | ן די | 1 |
| 107-06-2 | -1,2-Dichloroethane | | 6 | U | |
| 75-35-4 | -1,1-Dichloroethene | | 6 | ប | |
| 156-59-2 | -cis-1,2-Dichloroethene | | 6 | U | |
| 156-60-5 | -trans-1,2-Dichloroethene | | 6 | ប | |
| 78-87-5 | -1,2-Dichloropropane | | - 6 | U | |
| | -cis-1,3-Dichloropropene | | 6 | U | 1 |
| 10061-02-6 | -trans-1,3-Dichloropropend | 3 . | 6 | ט | |
| 100-41-4 | -Ethylbenzene | | 6 | ប | 1 |
| 591-78-6 | -2-Hexanone | | 29 | U . | |
| 98-82-8 | -Isopropylbenzene | | 6 | ប | |
| | -Methyl acetate | | 6 | ប | |
| | -Methylcyclohexane | | . 6 | U | |
| 75-09-2 | -Methylene chloride | 4. | 6 | - В | 7.: |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

| | | BS-5 COMP 2 |
|--|--|--|
| ab Name: STL Buffalo Contract: | | |
| ab Code: RECNY Case No.: SAS No.: | _ SDG No.: <u>A083</u> | |
| Matrix: (soil/water) SOIL | Lab Sample ID: | A6A16907FD |
| Sample wt/vol: $\underline{5.27}$ (g/mL) \underline{G} | Lab File ID: | F2135.RR |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 09/01/2006 09/06/2006 |
| Moisture: not dec. <u>18</u> Heated Purge: Y | Date Analyzed: | 09/11/2006 |
| 9C Column: <u>DB-624</u> ID: <u>0.18</u> (mm) | Dilution Factor | :1.00 |
| Soil Extract Volume: (uL) | Soil Aliquot Vo | olume: (uL) |
| | CONCENTRATION UNITS (ug/L or ug/Kg) | |
| 108-10-14-Methyl-2-pentanone 1634-04-4Methyl-t-Butyl Ether (MTBE) 100-42-5Styrene 79-34-51,1,2,2-Tetrachloroethane 127-18-4Tetrachloroethene 108-88-3Toluene 120-82-11,2,4-Trichloroethane 71-55-61,1,1-Trichloroethane 79-00-51,1,2-Trichloroethane 76-13-11,1,2-Trichloro-1,2,2-trifluo 75-69-4Trichloroethane 79-01-6Trichloroethene 75-01-4Vinyl chloride 1330-20-7Total Xylenes | roethane | 29 U U U U U U U U U U U U U U U U U U U |

Client No.

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS

TENTATIVELY IDENTIFIED COMPOUNDS

BS-5 COMP 2 F2135.RR

Lab Name: STL Buffalo Contract: _____ Lab Code: RECNY Case No.: SAS No.: SDG No.: A083 Matrix: (soil/water) SOIL Lab Sample ID: A6A16907FD 5.27 (g/mL) <u>G</u> Sample wt/vol: Lab File ID: Date Samp/Recv: 09/01/2006 09/06/2006 Level: (low/med) LOW Date Analyzed: 09/11/2006 % Moisture: not dec. 17.6 GC Column: <u>DB-624</u> ID: <u>0.18</u> (mm) Dilution Factor: 1.00

> CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

Soil Aliquot Volume: ____ (uL)

| CAS NO. | Compound Name | RT | Est. Conc. | Q . |
|---------|---------------|----|------------|-----|
| | | | | |

Soil Extract Volume: ____ (uL)

Number TICs found: __0

Client No.

BS-7(1-1.5 & 2-2.8)

| Lab Name: <u>SIL Buffalo</u> | Contract: | | 20 / (2 210 4 2 210) |
|---|------------|---|-----------------------|
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) SOIL | | Lab Sample ID: | <u>A6A08306</u> |
| Sample wt/vol: $\underline{5.11}$ (g/mL) | <u>G</u> | Lab File ID: | <u>04962.RR</u> |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 08/30/2006 09/01/2006 |
| % Moisture: not dec. <u>13</u> Heated | l Purge: Y | Date Analyzed: | 09/08/2006 |
| GC Column: <u>DB-624</u> ID: <u>0.25</u> (n | rm) | Dilution Factor: | 1.00 |
| Soil Extract Volume: (uL) | | Soil Aliquot Volu | ume: (uL) |
| CAS NO. COMPOUND | | CONCENTRATION UNITS: (ug/L or ug/Kg) ! | OG/KG Q |

67-64-1-----Acetone J 71-43-2----Benzene 6 U 75-27-4----Bromodichloromethane 6 U 75-25-2----Bromoform 6 U 74-83-9-----Bromomethane 6 U 78-93-3----2-Butanone 28 U 75-15-0-----Carbon Disulfide 6 U 56-23-5-----Carbon Tetrachloride 6 U 108-90-7-----Chlorobenzene 6 U 75-00-3-----Chloroethane 6 U 67-66-3-----Chloroform 6 U 74-87-3-----Chloromethane 6 U 110-82-7-----Cyclohexane 6 U 106-93-4----1,2-Dibromoethane 6 U 124-48-1----Dibromochloromethane 6 U 96-12-8----1,2-Dibromo-3-chloropropane 6 U 95-50-1----1,2-Dichlorobenzene U 541-73-1----1,3-Dichlorobenzene 6 U 106-46-7----1,4-Dichlorobenzene 6 U 75-71-8-----Dichlorodifluoromethane 6 U 75-34-3----1,1-Dichloroethane 6 U 107-06-2----1,2-Dichloroethane U 6 75-35-4-----1,1-Dichloroethene 6 U 156-59-2----cis-1,2-Dichloroethene U 6 156-60-5----trans-1,2-Dichloroethene 6 U 78-87-5----1,2-Dichloropropane 6 U 10061-01-5---cis-1,3-Dichloropropene 6 U 10061-02-6---trans-1,3-Dichloropropene 6 U 100-41-4----Ethylbenzene U 6 591-78-6----2-Hexanone U 28 98-82-8-----Isopropylbenzene U 6 79-20-9-----Methyl acetate 6 U 108-87-2----Methylcyclohexane 6 U 75-09-2-----Methylene chloride 12 . .

Client No.

00 7/1 1 5 5 2 2 0\

| Lab Name | : SIL Buffalo Contract: | | BS-7(1-1.5 | & 2-2.8) |
|----------|---|--|--|------------|
| | : <u>RECNY</u> Case No.: SAS No.: | | <u>.</u> | |
| Matrix: | (soil/water) SOIL | Lab Sample ID: | A6A08306 | |
| Sample w | t/vol: <u>5.11</u> (g/mL) <u>G</u> | Lab File ID: | 04962.RR | |
| Level: | (low/med) <u>LOW</u> | Date Samp/Recv | : 08/30/2006 | 09/01/2006 |
| % Moistu | re: not dec. <u>13</u> Heated Pùrge: Y | Date Analyzed: | 09/08/2006 | |
| GC Colum | n: <u>DB-624</u> ID: <u>0.25</u> (mm) | Dilution Factor | r: <u>1.00</u> | |
| Soil Ext | ract Volume: (uL) | Soil Aliquot Vo | olume: | _ (uL) |
| | CAS NO. COMPOUND | CONCENTRATION UNITS (ug/L or ug/Kg) | | Q. |
| | 79-34-51,1,2,2-Tetrachloroethan 127-18-4Tetrachloroethene 108-88-3Toluene 120-82-11,2,4-Trichlorobenzene 71-55-61,1,1-Trichloroethane 79-00-51,1,2-Trichloroethane 76-13-11,1,2-Trichloroethane 75-69-4Trichloroethane 79-01-6Trichloroethene 75-01-4Vinyl chloride | le | 28 U U U U U U U U U U U U U U U U U U U | |
| | 1330-20-7Total Yvlened | | 17 17 | 1 |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| Lab Name: STL Buffalo | Contract: | | BS-7(1-1.5 & 2-2.8) |
|--|------------|---------------------------------------|-----------------------|
| Lab Code: RECNY Case No.: | _ SAS No.: | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) <u>SOIL</u> | | Lab Sample ID: | A6A08306 |
| Sample wt/vol:5.11 (g/mL |) <u>G</u> | Lab File ID: | Q4962.RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 08/30/2006 09/01/2006 |
| % Moisture: not dec. 13.0 | | Date Analyzed: | 09/08/2006 |
| GC Column: <u>DB-624</u> ID: <u>0.25</u> | (mm) | Dilution Factor: | 1.00 |
| Soil Extract Volume: (uL) | | Soil Aliquot Vol | ume: (uL) |
| Number TICs found:1 | | CONCENIRATION UNIT (ug/L or ug/Kg) | |

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---------|-----------------|------|------------|---|
| 1. | UNKNOWN SILANOL | 4.24 | . 6 | J |

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LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| 7 -1- 37 | | | | | | | BS-7 (4 | -5.5 & | 6-7.6) |
|-----------|---------------------------|-----------------------------|---------------------------------------|-------|---------------------------|----------|---------------------------------------|---------------|----------|
| Lab Name: | : SIL BUTTALO | Cc | ntract: | | | | · · · · · · · · · · · · · · · · · · · | | |
| Lab Code: | : <u>RECNY</u> Cas | se No.: | SAS No.: | ····· | SDG No.: | <u> </u> | | | |
| Matrix: | (soil/water) S | OIL | | | Lab Sample | E ID: | A6A0830 | 8 | |
| Sample wt | z/vol: _ | <u>5.14</u> (g/mL) <u>G</u> | - | | Lab File 1 | D: | <u>04987.R</u> | R | - - |
| Level: | (low/med) \underline{I} | <u>.cw</u> | | | Date Samp | 'Recv: | 08/30/2 | <u>006</u> 09 | /01/2006 |
| % Moistu | re: not dec | 20 Heated I | Aurge: Y | | Date Analy | zed: | 09/09/2 | 006 | |
| GC Column | n: <u>DB-624</u> | ID: <u>0.25</u> (mm) | | | Dilution I | actor: | 1.0 | <u>0</u> | |
| Soil Exti | ract Volume: _ | (uL) | | | Soil Aliqu | ot Vol | ume: | | (uL) |
| | CAS NO. | COMPOUND | | | CENTRATION g/L or ug/I | | | Q | |
| • | 67-64-1 | Acetone | | | | | 34 | | |
| . • | 71-43-2 | | | | | | .6 | - บ | |
| | 75-27-4 | Bromodichloro | nethane | | | | 6 . | ט | |
| | 75-25-2 | Bromoform | · · · · · · · · · · · · · · · · · · · | | | | | . บ | |
| • | | Bromomethane_ | | | i | | 6 | ע | · · |
| • | 78-93-3 | | | | | | 30 | . บ | |
| | | Carbon Disulf: | | | | | 6 | U | |
| • | 56 - 23 - 5 | Carbon Tetraci | nloride | | | | 6 | ט | |
| | | Chlorobenzene | | | | | 6 | ש | - |
| - | | Chloroethane_ | | | | - | 6 | U | |
| | | Chloroform | | | | | 6 | υ | |
| | 74-87 - 3 | Chloromethane | | | | | 6 . | U | 1 |

110-82-7-----Cyclohexane

106-93-4----1,2-Dibromoethane

98-82-8-----Isopropylbenzene

108-87-2----Methylcyclohexane

75-09-2----Methylene chloride

79-20-9-----Methyl acetate

124-48-1----Dibromochloromethane

| Lab Name: : | STL Buffalo | | Contract: | | E | BS-7 (4- | 5.5 & | 6-7.6) |
|-------------|-----------------------|--------------------|------------------|----------------------------|------------------|----------------|---------------|---------|
| | | | SAS No.: | | A083 | - | | |
| | | | | | | | | |
| Matrix: (so | oil/water) <u>s</u> | SOIL | | Lab Sampl | e ID: A | 5A08308 | | |
| Sample wt/ | vol: | 5.14 (g/mL) | <u>G</u> | Lab File | ID: <u>04</u> | 1987.RR | | |
| Level: (| low/med) <u>I</u> | <u>wo</u> | | Date Samp | /Recv: <u>08</u> | 3/30/20 | 06 <u>09/</u> | 01/2006 |
| % Moisture | :: not dec | 20 Heated | l Purge: Y | Date Anal | yzed: 09 | <u>}/09/20</u> | <u>06</u> | ٠ |
| 3C Column: | DB-624 | ID: <u>0.25</u> (m | m) | Dilution | Factor: | 1.00 | | - |
| Soil Extra | ct Volume: _ | (uL) | | Soil Aliq | uot Volume | »: | (| uL) |
| | AS NO. | COMPOUND | | CONCENTRATION (ug/L or ug/ | | ′KG | Q | |
| 10 | .634-04-4 .00-42-5 | Styrene | yl Ether (MIBE) | | 6 | 5 | U U | |
| 79 | 9-34-5 | -1,1,2,2-Tetr | achloroethane_ | | ľ | | บ | |
| 1: | 27-18-4 | Tetrachloroe | thene | | 6 | | U | |
| | 08-88-3 | | orobenzene_ | | 6 | | ប | |
| 7 | 1-55-6 | -1,1,1-Trichl | oroethane | | 6 | | ប ប | |
| 79 | 9-00-5 | -1,1,2-Trichl | oroethane | | 6 | | บ | |
| 76 | 6-13-1 | -1,1,2-Trichl | oro-1,2,2-trifly | oroethane | 6 | • | บั | |
| 79 | 5-69-4 | -Trichloroflu | oromethane | <u></u> | i | | BJ | |
| . 179 | 9-01-6 | -Trichloroeth | ene | | 6 | | ប | |
| 75 | 5-01-4 | -Vinyl chlori | de | | . 12 | ; | ប | |
| 13 | 330-20-7 | -Total Xylene | S | | 18 | | ប | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS TENIATIVELY IDENTIFIED COMPOUNDS

Client No.

BS-7(4-5.5 & 6-7.6)

| Lab Name: | STL Buffalo | Contract: | | |
|-----------|--------------------------|------------------|---------------------------------------|-----------------------|
| Lab Code: | <u>RECNY</u> Case No. | : SAS No.: | SDG No.: A083 | |
| Matrix: (| soil/water) <u>SOIL</u> | | Lab Sample ID: | A6A08308 |
| Sample wt | /vol: <u>5.14</u> | (g/mL) <u>G</u> | Lab File ID: | <u>Q4987.RR</u> |
| Level: | (low/med) <u>LOW</u> | | Date Samp/Recv: | 08/30/2006 09/01/2006 |
| % Moistur | ne: not dec. <u>19.9</u> | • | Date Analyzed: | 09/09/2006 |
| GC Column | n: <u>DB-624</u> ID: | <u>0.25</u> (mm) | Dilution Factor: | :1.00 |
| Soil Extr | ract Volume: | (പ്L) | Soil Aliquot Vol | lume: (uL) |
| Number TI | Cs found: <u>1</u> | | CONCENTRATION UNIT (ug/L or ug/Kg) | _ |
| | CAS NO. | Compound Name | RT Est. | Conc. Q |

| | CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---------|-----------------|------|------------|---|
| 1 | 1. | UNKNOWN SILANOL | 4.24 | 6 | J |

Client No.

5 5

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| Lab Name: STL Buffalo | Contract: | | BS-9 (2- | 3.2 & 4-4.6) |
|--|---|----------------------|---|---|
| Lab Code: <u>RECNY</u> Case | No.: SAS No.: | SDG No.: <u>A083</u> | ' | |
| Matrix: (soil/water) SO | <u>II.</u> | Lab Sample ID: | A6A08307 | |
| Sample wt/vol: | 5.06 (g/mL) <u>G</u> | Lab File ID: | Q4986.RF | · · · · · · · · · · · · · · · · · · · |
| Level: (low/med) LO | <u>w</u> | Date Samp/Recv | : 08/30/20 | 06 09/01/2006 |
| % Moisture: not dec | 8 Heated Purge: Y | Date Analyzed: | 09/09/20 | 06 |
| GC Column: <u>DB-624</u> | ID: <u>0.25</u> (mm) | Dilution Facto | r: <u>1.00</u> | ! |
| Soil Extract Volume: | (uL) | Soil Aliquot V | olume: | (uL) |
| CAS NO. | COMPOUND | CONCENTRATION UNIT | | Q |
| 75-25-2 74-83-9 78-93-3 75-15-0 56-23-5 108-90-7 75-00-3 67-66-3 74-87-3 110-82-7 106-93-4 96-12-8 95-50-1 541-73-1 75-71-8 75-34-3 107-06-2 75-35-4 156-69-5 18-87-5 10061-01-5 | Benzene Bromodichloromethane Bromoform Bromomethane 2-Butanone Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chloroethane Chloromethane Chloromethane Cyclohexane 1,2-Dibromoethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene | | 14 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | טטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט |

98-82-8-----Isopropylbenzene
79-20-9-----Methyl acetate
108-87-2-----Methylcyclohexane
75-09-2------Methylene chloride

| Lab Name: STL Buffalo Contract: | | BS-9 (2- | 3.2 & 4 | -4.6) |
|--|--------------------------------------|--|---|--------|
| | • | | | , |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: A083 | | | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | <u>A6A08307</u> | | |
| Sample wt/vol: 5.06 (g/mL) G | Lab File ID: | 04986.RR | | |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 08/30/20 | <u>06 09/0</u> | 1/2006 |
| % Moisture: not dec. <u>8</u> Heated Purge: <u>Y</u> | Date Analyzed: | 09/09/20 | 06 | |
| GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm) | Dilution Factor: | 1.00 | | |
| Soil Extract Volume: (uL) | Soil Aliquot Vol | ume: | (u | L) |
| | NCENIRATION UNITS: ug/L or ug/Kg) | | Q | •- |
| 108-10-14-Methyl-2-pentanone 1634-04-4Methyl-t-Butyl Ether (MTBE) 100-42-5Styrene 79-34-51,1,2,2-Tetrachloroethane 127-18-4Tetrachloroethene 108-88-3Toluene 120-82-11,2,4-Trichlorobenzene 71-55-61,1,1-Trichloroethane 79-00-51,1,2-Trichloroethane 76-13-11,1,2-Trichloro-1,2,2-trifluoroethane | | 27 5 5 5 5 5 5 5 5 | ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט | |
| 75-69-4Trichlorofiuoromethane 79-01-6Trichloroethene 75-01-4Vinyl chloride | | 5 11 | BJ U U | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| Lab Name: <u>STL Buffalo</u> | Contract: | . [| 3S-9(2-3.2 & | 2 4-4.6) |
|--|-----------|--|--------------|------------|
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: <u>A083</u> | | |
| Matrix: (soil/water) SOIL | | Lab Sample ID: | A6A08307 | |
| Sample wt/vol: $\underline{5.06}$ (g/m | IL) G | Lab File ID: | Q4986.RR | |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 08/30/2006 | 09/01/2006 |
| % Moisture: not dec 7.9 | | Date Analyzed: | 09/09/2006 | |
| GC Column: <u>DB-624</u> ID: <u>0.25</u> | (mm) | Dilution Factor: | 1.00 | |
| Soil Extract Volume: (uL) | | Soil Aliquot Volu | me: | _ (பட) |
| Number TICs found:1 | | CONCENTRATION UNITS (ug/L or ug/Kg) | | |
| | ··· | | | _ |

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---------|-----------------|------|------------|---|
| 1. | UNKNOWN SILANOL | 4.24 | . 6 | J |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

| Tab Name | | | | BS-9 (| 5.0-6.9) | |
|----------|-------------------|---|---|---------------------|------------------|--------|
| Lab Name | : SIL BUITALO | Contract: | | | | |
| Lab Code | : <u>RECNY</u> Ca | se No.: SAS No.: | SDG No.: A | .083 | | • |
| Matrix: | (soil/water) | SOIL | Lab Sample | ID: <u>A6A0830</u> | 09 | |
| Sample w | t/vol: | 5.02 (g/mL) <u>G</u> | Lab File ID | Q4965.I | R. | |
| Level: | (low/med) | LOW | Date Samp/R | ecv: <u>08/30/2</u> | <u>2006</u> 09/0 | 1/2006 |
| % Moistu | re: not dec. | <u>8</u> Heated Purge: <u>Y</u> | Date Analyz | ed: <u>09/08/2</u> | 2006 | |
| GC Colum | n: <u>DB-624</u> | ID: <u>0.25</u> (mm) | Dilution Fa | ctor:1.(| <u>00</u> | |
| Soil Ext | ract Volume: | (uL) | Soil Aliquo | t Volume: | (u | L) |
| | CAS NO. | COMPOUND | CONCENTRATION U (ug/L or ug/Kg | | Q | |
| | 67-64-1 | Acetone | | 14 | J | |
| | 75-27-4 | Bromodichloromethane Bromoform | | 5 5 5 | U U | |
| | 78-93-3 | Brononecnane | | 5 27 | ט | |
| | 56-23-5 | Carbon Disulfide Carbon Tetrachloride | | 5 5 | ט | |
| | 75-00-3 | Chlorobenzene Chloroethane | | 5 5 | U | |
| | 74-87-3 | Chloromethane | • | 5 5 | U | |
| , | TTO-82-/ | Cyclohexane 1,2-Dibromoethane | | 5 5 | U U | |
| | 124-48-1 | Dibromochloromethane 1,2-Dibromo-3-chloropropane | *************************************** | 5 5 | Ū | |
| | 95-50-1 | 1,2-Dichlorobenzene 1,3-Dichlorobenzene | | 5 | Ü | |
| | 106-46-7 | 1,4-DichlorobenzeneDichlorodifluoromethane | | 5 . | Ü | |
| | 75-34-3 | 1,1-Dichloroethane 1,2-Dichloroethane | | 5 5 | ט | |
| | 75-35-4 | 1,1-Dichloroethene | | . 5 5 | ט | |
| | 156-60-5 | cis-1,2-Dichloroethene trans-1,2-Dichloroethene | | 5 5 | บ | |
| | 10061-01-5 | -1,2-Dichloropropane -cis-1,3-Dichloropropene | | 5 5 | ט | |
| | 100-41-4 | -trans-1,3-Dichloropropene | | 5 5 | ט ט | |
| | | -Isopropylbenzene | | 27 5 | ט ט | |
| | 108-87-2 | -Methyl acetate -Methylcyclohexane | | 5 5 | U U | |
| | 175-09-2 | -Methylene chloride | | . 0 | lo l | |

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LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

BS-9(6.0-6.9) Lab Name: STL Buffalo Contract: Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: A083 Matrix: (soil/water) SOIL Lab Sample ID: A6A08309 Sample wt/vol: 5.02 (g/mL) GQ4965.RR Lab File ID: Level: (low/med) LOW Date Samp/Recv: 08/30/2006 09/01/2006 % Moisture: not dec. 8 Heated Purge: Y Date Analyzed: 09/08/2006 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00 Soil Extract Volume: (uL) Soil Aliquot Volume: _____ (uL) CONCENTRATION UNITS: CAS NO. COMPOUND UG/KG_ (ug/L or ug/Kg) Q 108-10-1----4-Methyl-2-pentanone 27 U. 1634-04-4----Methyl-t-Butyl Ether (MIBE) 5 U 100-42-5----Styrene 5 U 79-34-5----1,1,2,2-Tetrachloroethane 5 U 127-18-4----Tetrachloroethene 5 U 108-88-3----Toluene 5 U 5 120-82-1----1,2,4-Trichlorobenzene U 71-55-6-----1,1,1-Trichloroethane 5 U 79-00-5----1,1,2-Trichloroethane 5 U 76-13-1----1,1,2-Trichloro-1,2,2-trifluoroethane 5 IJ 75-69-4----Trichlorofluoromethane 5 U 79-01-6----Trichloroethene 5 U 75-01-4-----Vinyl chloride ~ U 11

1330-20-7----Total Xylenes

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS

TENTATIVELY IDENTIFIED COMPOUNDS

| | | | BS-9(6.0-6.9) |
|------------------------------|-------------------|---------------------------------------|-----------------------|
| Lab Name: <u>STL Buffalo</u> | Contract: | | |
| Lab Code: RECNY Case No. | .: SAS No.: | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) SOIL | | Lab Sample ID: | A6A08309 |
| Sample wt/vol: 5.02 | 2 (g/mL) <u>G</u> | Lab File ID: | Q4965.RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 08/30/2006 09/01/2006 |
| % Moisture: not dec. 8.1 | | Date Analyzed: | 09/08/2006 |
| GC Column: DB-624 ID: | : 0.25 (mm) | Dilution Factor | :1.00 |
| Soil Extract Volume: | (uL) | Soil Aliquot Voi | lume: (uL) |
| Number TICs found:1 | | CONCENTRATION UNIT (ug/L or ug/Kg) | |
| CAS NO. | Compound Name | RT Est. | Conc. O |

IABELLA ASSOCIATES IABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

FIELD BLANK Lab Name: STL Buffalo Contract: Lab Code: RECNY Case No.: ___ SAS No.: SDG No.: A083 Matrix: (soil/water) WATER Lab Sample ID: A6A08313 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: N9980.RR Level: (low/med) LOW Date Samp/Recv: 08/29/2006 09/01/2006 % Moisture: not dec. ____ Heated Purge: N Date Analyzed: 09/06/2006 GC Column: <u>DB-624</u> ID: <u>0.53</u> (mm) Dilution Factor: 1.00 Soil Extract Volume: ____ (uL) Soil Aliquot Volume: _____ (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNI (ug/L or ug/Kg) | TS: UG/L_ | Q |
|-------------|-----------------------------|--------------------------------------|--------------|------|
| 67-64-1 | Acetone | | 2.9 | J |
| 71-43-2 | | | 1.0 | ע |
| | Bromodichloromethane | | 4.7 | |
| | Bromoform | | 1.0 | U |
| 74-83-9 | Bromomethane | | 1.0 | U |
| | 2-Butanone | | 5.0 | ט |
| | Carbon Disulfide | | 1.0 | שׁ |
| | Carbon Tetrachloride | · | 1.0 | U- |
| | Chlorobenzene | | 1.0 | U |
| | Chloroethane | | 1.0 | ט |
| | Chloroform | | 14 | |
| | Chloromethane | | 1.0 | ַ |
| 110-82-7 | Cyclohexane | | 1.0 | ש |
| | 1,2-Dibromoethane | | 1.0 | U |
| | Dibromochloromethane | | 0.82 | J |
| | 1,2-Dibromo-3-chloropropane | | 1.0 | U |
| | 1,2-Dichlorobenzene | | 1.0 | U |
| | 1,3-Dichlorobenzene | | 1.0 | ַ |
| | 1,4-Dichlorobenzene | | 1.0 | ע |
| | Dichlorodifluoromethane | | 1.0 | U |
| | 1,1-Dichloroethane | | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | | 1.0 | U |
| 75-35-4 | 1,1-Dichlorcethene | | 1.0 | . บ |
| 156-59-2 | cis-1,2-Dichloroethene | | 1.0 | ע |
| 156-60-5 | trans-1,2-Dichloroethene | | 1.0 | ש |
| 78-87-5 | 1,2-Dichloropropane | | 1.0 | ש |
| | cis-1,3-Dichloropropene | | 1.0 | U |
| 10061-02-6- | trans-1,3-Dichloropropene | | 1.0 | U |
| 100-41-4 | Ethylbenzene | | 1.0 | ע |
| | 2-Hexanone | | 5.0 | U |
| | Isopropylbenzene | | 1.0 | ט |
| | Methyl acetate | | 1.0 | ַ |
| | Methylcyclohexane | | 1.0 | ט |
| 75-09-2 | Methylene chloride | | 1.0 | . ט |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

| Lab Name: CTT. Duffalo | Contract: | | FIELD | BLANK | |
|---|--|--------------------------------------|---|---------------|----------|
| did name. <u>Did ballato</u> | Concract: | | | | |
| Lab Code: <u>RECNY</u> Cas | se No.: SAS No.: | SDG No.: <u>A08</u> | 3 | • | |
| Matrix: (soil/water) <u>w</u> | ATER | Lab Sample ID | : <u>A6A083</u>] | 3 | |
| Sample wt/vol: | 5.00 (g/mL) <u>ML</u> | Lab File ID: | <u>N9980.</u> F | R. | _ |
| Level: (low/med) <u>I</u> | <u>OW</u> | Date Samp/Rec | v: <u>08/29/2</u> | 006 <u>09</u> | /01/2006 |
| % Moisture: not dec | Heated Purge: N | Date Analyzed | : 09/06/2 | 2006 | |
| GC Column: <u>DB-624</u> | ID: <u>0.53</u> (mm) | Dilution Fact | or: <u>1.0</u> | <u>)0</u> | |
| Soil Extract Volume: _ | (uL) | Soil Aliquot | Volume: | · | (uL) |
| CAS NO. | COMPOUND | CONCENTRATION UNI (ug/L or ug/Kg) | | Q | |
| 1634-04-4 100-42-5 79-34-5 127-18-4 108-88-3 120-82-1 71-55-6 79-00-5 76-13-1 75-69-4 79-01-6 | -1,1,2,2-Tetrachloroethane -Tetrachloroethene -Toluene -1,2,4-Trichlorobenzene -1,1,1-Trichloroethane -1,1,2-Trichloroethane -1,1,2-Trichloroethane -Trichlorofluoromethane -Trichloroethene -Vinyl chloride | oroethane | 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | ממממממממממ | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| Lab Name: | SIL Buffalo | Contract: | | FIELD BLA | NK | |
|-----------|---------------------------|--------------------|-------------------------------------|-----------|-----------|--------------|
| Lab Code: | <u>RECNY</u> Case No. | : SAS No.: | SDG No.: <u>A083</u> | Ţ | | |
| Matrix: (| (soil/water) <u>WATER</u> | • | Lab Sample ID: | A6A08313 | <u> </u> | |
| Sample wt | :/vol: <u>5.00</u> |) (g/mL) <u>ML</u> | Lab File ID: | N9980.RF | <u> </u> | |
| Level: | (low/med) <u>LOW</u> | · | Date Samp/Recv | 08/29/20 | 006 09/01 | <u>/2006</u> |
| % Moistur | re: not dec | • | Date Analyzed: | 09/06/20 | 006 | |
| GC Column | n: <u>DB-624</u> ID: | : <u>0.53</u> (mm) | Dilution Factor | c:1.00 | <u>)</u> | |
| Soil Extr | act Volume: | (uL) | Soil Aliquot Vo | olume: | (uI | (۱ |
| Number T | Cs found: _0 | | CONCENTRATION UN (ug/L or ug/Kg) | | | |
| | CAS NO. | Compound Name | RT Est | Conc. | Q | |
| | | | | | . '' | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS + STARS ANALYSIS DATA SHEET

| Lab Name: <u>STL Buffalo</u> | Contract• | | TRIP BLAN | K |
|-----------------------------------|--------------------------|---------------------|-------------------|----------------|
| | | • | | |
| Lab Code: <u>RECNY</u> Case No | SAS NO.: | No.: AU83 | | |
| Matrix: (soil/water) <u>WATER</u> | 2 | Lab Sample ID: | A6A08314 | |
| Sample wt/vol: 5.0 | 00 (g/mL) <u>ML</u> | Lab File ID: | N9979.RR | |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | : 08/31/2006 | 09/01/2006 |
| % Moisture: not dec. | Heated Purge: N | Date Analyzed: | 09/06/2006 | • • • |
| GC Column: <u>DB-624</u> ID: | . <u>0.53</u> (mm) | Dilution Factor | 1.00 | · |
| Soil Extract Volume: | (uL) | Soil Aliquot Vo | olume: | (uL) |
| | | CONCENTRATION UNITS | S: | |
| CAS NO. COM | 1POUND | (ug/L or ug/Kg) | | Q · |
| <u></u> | | | | - |
| 67-64-1Ace | | | 3 J 5 U | |
| 71-43-2Ber | rene | | T T | ' |
| | modichloromethane | · | 5 | . |
| 75-25-2Bro | | | 5 U | |
| 74-83-9Bro | | | 5 U 25 U | B |
| 78-93-32-E 75-15-0Car | | | 25 U | |
| | bon Tetrachloride | | 5 U | |
| 108-90-7Ch | | | 5 U | |
| 75-00-3Chl | | | 5 0 | |
| 67-66-3Ch | | | 16 | |
| 74-87-3Chl | | | 5 U | r ' |
| | promochloromethane | | 1 J | |
| 75-34-31,1 | | | 5 0 | 1 |
| 107-06-21,2 | | | 5 0 | |
| 75-35-41,1 | | | 5 U | r i |
| 540-59-01,2 | 2-Dichloroethene (Total) | | 10 U | |
| 78-87-51,2 | 2-Dichloropropane | | 5 U | |
| 10061-01-5cis | 3-1,3-Dichloropropene | | 5 U | r [|
| | ans-1,3-Dichloropropene | | 5 U | |
| 100-41-4Eth | | | 5 U | • |
| 591-78-62-H | | | 25 U | 1 |
| 75-09-2Met | | | 5 U | |
| 108-10-14-N | Methyl-2-pentanone | | 25 U | 1 |
| 100-42-5Sty | | | 5 U | 1 |
| | ,2,2-Tetrachloroethane | · | 5 U | 1 |
| 127-18-4Tet | | | 5 U 5 U 5 U | · i |
| 108-88-3Tol | | | 5 U | L |
| | 1,1-Trichloroethane | | 5 U | |
| 79-00-5Tri | ,2-Trichloroethane | | 5 U | · • |
| 79-01-61ri 108-05-4Vir | | , , | 25 U | |
| 75-01-4Vir | | | 25 U | 1 |
| 1330-20-7Tot | | | . 15 . U | l l |
| 1-0-0 40 / 100 | | | | , |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS + STARS ANALYSIS DATA SHEET

Client No.

| | | • | | | TR | IP BLANK | |
|----------|---------------------|--|-----------------------------------|--------------------------------|-------------------|--|----------------------|
| Lab Name | : STL Buffal | <u>.o</u> | Contract: | | <u> </u> | | |
| Lab Code | : <u>RECNY</u> C | ase No.: | SAS No.: | SDG No.: | <u>A083</u> | | |
| Matrix: | (soil/water) | WATER | | Lab Sample | : ID: <u>A6A</u> | 08314 | |
| Sample w | t/vol: | 5.00 (g/mL) |) ML | Lab File I | D: <u>N99</u> | 79.RR | Jung-sian |
| Level: | (low/med) | LOW | | Date Samp/ | 'Recv: <u>08/</u> | <u>31/2006 0</u> | 9/01/2006 |
| % Moistu | re: not dec. | Heate | ed Purge: <u>N</u> | Date Analy | zed: <u>09/</u> | 06/2006 | |
| GC Colum | n: <u>DB-624</u> | ID: <u>0.53</u> | (mm) | Dilution I | Factor: | 1.00 | |
| Soil Ext | ract Volume: | (uL) | • | Soil Aliqu | ot Volume: | | (uL) |
| | CAS NO. | COMPOUND | | CONCENTRATION (ug/L or ug/I | | <u>. </u> | ! |
| | 103-65-1 99-87-6 | n-Propylbei p-Cymene | enzene nzene | | 5 5 5 | | |
| | 95-63-6 108-67-8 | 1,2,4-Trim | ethylbenzene ethylbenzene | | 5 5 5 | ប ប ប | |
| •• | 135-98-8 98-06-6 | sec-Butylb tert-Butyll | enzene benzene | | 5 5 | ប | |
| | 1634-04-4- | | utyl Ether (MIBE) | | 5 5 5 | ប ប ប | |
| | 95-50-1 | 1,2-Dichlo | | broetrarie | 5 5 5 | ט ט | |
| | 106-46-7 | 1,3-Dichlo | robenzene | | 5 5 5 | บ บ | |
| | 156-60-5 | | Dichloroethene | | 5 5 | U U | |
| | 75-69-4 | Trichlorof | fluoromethane | | . 5 | ប | |
| | 110-82-7 | Methyl ace Cyclohexan | e | | 5 5 5 | บ บ บ | |
| | 106-93-4 | Methylcycl | pethane | | 5 5 5 | ט | |
| , | | 1,2-D1D1 0 11 1,2,4-Tric | p-3-chloropropane hlorobenzene | | 5 | ט | |

120-82-1----1,2,4-Trichlorobenzene

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

| . 1 | | | | | Tri | p Blank | |
|-----------|--------------------|----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------|-----------------|
| Lab Name: | STL Buffalo | Con | tract: | | | | |
| Lab Code: | RECNY Case | e No.: | SAS No.: | SDG No.: A | 083 | | |
| Matrix: (| (soil/water) W | ATER | | Lab Sample | ID: <u>A6A1</u> | 6901 | |
| Sample wt | :/vol: ` _ | 5.00 (g/mL) <u>ML</u> | | Lab File ID | : <u>F212</u> | 3.RR | _ |
| Level: | (low/med) <u>L</u> | OW . | | Date Samp/R | ecv: <u>09/0</u> | 1/2006 09 | <u>/06/2006</u> |
| % Moistur | re: not dec | Heated Pu | rge: <u>Y</u> | Date Analyz | ed: <u>09/1</u> | 1/2006 | |
| GC Column | n: <u>DB-624</u> | ID: <u>0.18</u> (mm) | | Dilution Fac | ctor: | 1.00 | |
| Soil Extr | act Volume: _ | (uL) | | Soil Aliquo | t Volume: | | (uL) |
| | | | . (| CONCENIRATION U | אדדיים. | | |
| | CAS NO. | COMPOUND | | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | | · · · · · · · · · · · · · · · · · · · | | |
| | 67-64-1 | -Acetone | | | | : ' | - |
| } | /1-43-2 | -Benzene | | į. | 1.0 | Ŭ | |
| } | 75-27-4 | -Bromodichlorome | thane | | 4.9 | | |
| | 75-25-2 | -Bromotorm | | | 1.0 | U | 1975 |
| | 74-83-9 | -Bromomethane | | | 1.0 | ប | |
| - | 78-93-3 | -2-Butanone | | | 5.0 | | |
| | 75-15-0 | -Carbon Disulfid | e | | 1.0 | E . | • |
| | 56-23-5 | -Carbon Tetrachl | oride | | 1.0 | | |
| | 108-90-7 | -Chlorobenzene_ | | · · · · · · · · · · · · · · · · · · · | 1.0 | | |
| | 75-00-3 | -Chloroethane | и | | 1.0 | | ŀ |
| | 67-66-3 | _/ 'n i 0300T0300 | | | 15 | | |
| | 74-87-3 | -Chlorototii | | | 1.0 | | |
| | 110-02-7 | -Chloromethane | | | • | | |
| | 106 03 4 | -Cyclohexane -1,2-Dibromoetha | | | 1.0 | | · |
| | 100-93-4 | -1,2-DIDIGIDELIA | | | 1.0 | 1 - | |
| | | -Dibromochlorome | | · · · · · · · · · · · · · · · · · · · | 1.3 | | |
| 1 | 96-12-8 | -1,2-Dibromo-3-c | nioropropane | · | 1.0 | | |
| | 95-50-1 | -1,2-Dichloroben | zene | | 1.0 | | |
| 1 | | -1,3-Dichloroben | | | 1.0 | | |
| | | -1,4-Dichloroben | | | 1.0 | 1 | |
| | | -Dichlorodifluor | | | 1.0 | 1 | |
| | | -1,1-Dichloroeth | | | 1.0 | 1 | |
| | | -1,2-Dichloroeth | | | 1.0 | · υ· | |
| | | -1,1-Dichloroeth | | | 1.0 | U | |
| | 156-59-2 | -cis-1,2-Dichlor | oethene | | 1.0 | · U | |
| | 156-60-5 | -trans-1,2-Dichle | oroethene | | 1.0 | υ | 1 |
| 1 | 78-87-5 | -1,2-Dichloropro | pane | | 1.0 | 1 | |
| l | | -cis-1,3-Dichlor | | | 1.0 | • | |
| | | -trans-1,3-Dichl | | | 1.0 | 1 | . |
| | 100-41-4 | | <u> </u> | | 1.0 | i i | |
| | 591-78-6 | | | | 5.0 | l l | |
| 1 | | -Isopropylbenzen | <u> </u> | | 1.0 | | |
| I | | -Methyl acetate | <u> </u> | | 1.0 | 1 | |
| | | -Methylcyclohexa | ne · | | 1.0 | | |
| 1 | | -Mothalono aplea | |]. | 2.0 | | 1 |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

| | | | | Trip Bla | nk | |
|--|----------------------------|-----------------------------|----------------|---|---------------|--------|
| Lab Name: SIL Buffalo | Contract: | <u> </u> | ٠. | | | |
| Lab Code: <u>RECNY</u> Cas | e No.: SAS No.: | SDG No.: | A083 | | | |
| Matrix: (soil/water) W | ATER | Lab Sample | D: A | .6A16901 | _ | |
| Sample wt/vol: _ | 5.00 (g/mL) <u>ML</u> | Lab File 1 | D: <u>F</u> | 2123.RR | | |
| Level: (low/med) <u>L</u> | <u>OW</u> | Date Samp, | Recv: <u>0</u> | 9/01/200 | <u>6 09/0</u> | 6/2006 |
| % Moisture: not dec | Heated Purge: Y | Date Analy | /zed: <u>0</u> | 9/11/200 | <u>6</u> | |
| GC Column: <u>DB-624</u> | ID: <u>0.18</u> (mm) | Dilution 1 | actor: _ | 1.00 | | |
| Soil Extract Volume: _ | (uL) | Soil Aliq | ot Volum | æ: | (t | ıL) |
| CAS NO. | COMPOUND | CONCENTRATION (ug/L or ug/l | | <u>}/L</u> . | Q | |
| 1634-04-4 100-42-5 79-34-5 127-18-4 108-88-3 71-55-6 79-00-5 75-69-4 79-01-6 | -1,1,2,2-Tetrachloroethane | ıoroethane | | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | U U | . · |

IABELLA ASSOCIATES IABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS TENIATIVELY IDENTIFIED COMPOUNDS

| Lab Name: | STL Buffalo | Contract: | | Ĺ | TITD BY | 1K. | |
|-----------|-----------------------|------------------|---------------------------|----------|----------|----------|-----------|
| Lab Code: | <u>RECNY</u> Case No. | : SAS No.: | SDG No.: A | 083 | | | |
| Matrix: (| soil/water) WATER | | Lab Sampl | e ID: | A6A1690 | <u>L</u> | |
| Sample wt | /vol: <u>5.00</u> | (g/mL) <u>ML</u> | Lab File | ID: | F2123.RI | ₹ | |
| Level: | (low/med) <u>LOW</u> | | Date Samp | /Recv: | 09/01/20 | 006 0 | 9/06/2006 |
| % Moistur | re: not dec. | • | Date Anal | yzed: | 09/11/20 | 006 | |
| GC Column | i: <u>DB-624</u> ID: | <u>0.18</u> (mm) | Dilution | Factor: | 1.00 | 2 | |
| Soil Extr | act Volume: | (uL) | Soil Aliq | quot Vol | ume: | | (uL) |
| Number TI | Cs found: 0 | | CONCENTRATI (ug/L or u | | | | |
| | CAS NO. | Compound Name | RT | Est. | Conc. | Q | |
| | | | | | | | 7 |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS ANALYSIS DATA SHEET

Client No.

| Lab Code: RECNY Case No.: SAS No.: SDG No.: A083 Matrix: (soil/water) SOIL Lab Sample ID: A6A08310 Sample wt/vol: 30.13 (g/mL) G Lab File ID: U15172.RR Level: (low/med) LOW Date Samp/Recv: 08/29/2006 09/01/2006 Moisture: 8 decanted: (Y/N) N Date Extracted: 09/07/2006 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/2006 Imjection Volume: 1.00 (uL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: | Lab Name: STL Buffalo Contract: | BH-4(1.2-1.5&2-3.5) | |
|--|--|---|--|
| Matrix: (soil/water) SOIL | | | |
| Lab File ID: U15172.RR | Lab Code: <u>RECNY</u> Case No.: SAS No.: | SDG No.: <u>A083</u> | |
| Level: (low/med) LOW Date Samp/Recv: 08/29/2006 09/01/2006 % Moisture: 8 decanted: (Y/N) N Date Extracted: 09/08/2006 Concentrated Extract Volume: 1.00 (uL) Date Analyzed: 09/08/2006 Injection Volume: 1.00 (uL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) US/KG Q 83-32-9Acenaphthene 360 U U 120-12-7Anthracene 360 U 120-12-7Anthracene 360 U U 205-99-2 | Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: A6A08310 | |
| % Moisture:8 decanted: (Y/N) N Date Extracted: 09/07/2006 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/2006 Imjection Volume:1.00 (uL) Dilution Factor:1.00 GPC Cleamup: (Y/N) N pH: CAS NO. COMPOUND COMPOU | Sample wt/vol: <u>30.13</u> (g/mL) <u>G</u> | Lab File ID: <u>U15172.RR</u> | |
| Concentrated Extract Volume: 1000 (uL) Injection Volume: 1.00 (uL) GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (a) fluoranthene 205-99-2Benzo (b) fluoranthene 360 U 207-08-9Benzo (ghi) perylene 360 U 191-24-2Benzo (a) pyrene 360 U 218-01-9Chrysene 360 U 218-01-9Dibenzo (a,h) anthracene 360 U 206-44-0Fluoranthene 360 U 206-44-0Fluoranthene 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U | Level: (low/med) <u>LOW</u> | Date Samp/Recv: 08/29/2006 09/01/2006 | |
| Thjection Volume: 1.00 (uL) Dilution Factor: 1.00 | % Moisture: <u>8</u> decanted: (Y/N) N | Date Extracted: 09/07/2006 | |
| CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (b) fluoranthene 360 207-08-9Benzo (ghi) perylene 360 191-24-2Benzo (ghi) perylene 360 191-24-2Benzo (a) pyrene 360 218-01-9Chrysene 360 53-70-3Dibenzo (a,h) anthracene 360 206-44-0Fluoranthene 360 360 360 360 360 360 360 36 | Concentrated Extract Volume: 1000 (uL) | Date Analyzed: 09/08/2006 | |
| CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q 83-32-9Acenaphthene 360 U 120-12-7Anthracene 360 U 56-55-3Benzo (a) anthracene 360 U 205-99-2Benzo (b) fluoranthene 360 U 207-08-9Benzo (k) fluoranthene 360 U 191-24-2Benzo (ghi) perylene 360 U 50-32-8Benzo (a) pyrene 360 U 218-01-9Chrysene 360 U 53-70-3Dibenzo (a,h) anthracene 360 U 206-44-0Fluoranthene 360 U 86-73-7Fluoranthene 360 U 193-39-5Indeno (1,2,3-cd) pyrene 360 U 85-01-8Phenanthrene 360 U 129-00-0 | Injection Volume: 1.00 (uL) | Dilution Factor: 1.00 | |
| CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 83-32-9Acenaphthene 360 U 120-12-7Anthracene 360 U 56-55-3Benzo (a) anthracene 360 U 205-99-2Benzo (b) fluoranthene 360 U 207-08-9Benzo (k) fluoranthene 360 U 191-24-2 | GPC Cleanup: (Y/N) N pH: | | |
| 83-32-9Acenaphthene 360 U 120-12-7Anthracene 360 U 56-55-3Benzo (a) anthracene 360 U 205-99-2Benzo (b) fluoranthene 360 U 207-08-9 | | | |
| 120-12-7Anthracene 360 U 56-55-3Benzo (a) anthracene 360 U 205-99-2Benzo (b) fluoranthene 360 U 207-08-9Benzo (k) fluoranthene 360 U 191-24-2Benzo (ghi) perylene 360 U 50-32-8Benzo (a) pyrene 360 U 218-01-9Chrysene 360 U 53-70-3Dibenzo (a, h) anthracene 360 U 206-44-0Fluoranthene 360 U 86-73-7Fluorene 360 U 193-39-5 | | · | |
| 56-55-3Benzo (a) anthracene 360 U 205-99-2Benzo (b) fluoranthene 360 U 207-08-9Benzo (k) fluoranthene 360 U 191-24-2Benzo (ghi) perylene 360 U 50-32-8Benzo (a) pyrene 360 U 218-01-9Chrysene 360 U 53-70-3Dibenzo (a, h) anthracene 360 U 206-44-0Fluoranthene 360 U 86-73-7Fluorene 360 U 193-39-5Indeno (1,2,3-cd) pyrene 360 U 85-01-8Phenanthrene 360 U 129-00-0 | CAS NO. COMPOUND | · | |
| 205-99-2Benzo (b) fluoranthene 360 U 207-08-9Benzo (k) fluoranthene 360 U 191-24-2Benzo (ghi) perylene 360 U 50-32-8Benzo (a) pyrene 360 U 218-01-9Chrysene 360 U 53-70-3Dibenzo (a,h) anthracene 360 U 206-44-0Fluoranthene 360 U 86-73-7Fluorene 360 U 193-39-5Indeno (1,2,3-cd) pyrene 360 U 85-01-8Phenanthrene 360 U 129-00-0 | 83-32-9Acenaphthene | (ug/L or ug/Kg) <u>UG/KG</u> Q 360 U | |
| 207-08-9Benzo (k) fluoranthene 360 U 191-24-2Benzo (ghi) perylene 360 U 50-32-8Benzo (a) pyrene 360 U 218-01-9Chrysene 360 U 53-70-3Dibenzo (a,h) anthracene 360 U 206-44-0Fluoranthene 360 U 86-73-7Fluorene 360 U 193-39-5Indeno (1,2,3-cd) pyrene 360 U 85-01-8Phenanthrene 360 U 129-00-0Pyrene 360 U | 83-32-9Acenaphthene 120-12-7Anthracene | (ug/L or ug/Kg) UG/KG Q 360 U 360 U | |
| 191-24-2Benzo (ghi) perylene 360 U 50-32-8Benzo (a) pyrene 360 U 218-01-9Chrysene 360 U 53-70-3Dibenzo (a,h) anthracene 360 U 206-44-0Fluoranthene 360 U 86-73-7Fluorene 360 U 193-39-5Indeno (1,2,3-cd) pyrene 360 U 85-01-8Phenanthrene 360 U 129-00-0 | 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo(a) anthracene | (ug/L or ug/Kg) UG/KG Q 360 U 360 U 360 U | |
| 191-24-2Benzo (ghi) perylene 360 U 50-32-8Benzo (a) pyrene 360 U 218-01-9Chrysene 360 U 53-70-3Dibenzo (a,h) anthracene 360 U 206-44-0Fluoranthene 360 U 86-73-7Fluorene 360 U 193-39-5Indeno (1,2,3-cd) pyrene 360 U 85-01-8Phenanthrene 360 U 129-00-0 | 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene | (ug/L or ug/Kg) UG/KG Q 360 U 360 U 360 U 360 U 360 U | |
| 50-32-8Benzo (a) pyrene 360 U 218-01-9Chrysene 360 U 53-70-3Dibenzo (a,h) anthracene 360 U 206-44-0Fluoranthene 360 U 86-73-7Fluorene 360 U 193-39-5Indeno (1,2,3-cd) pyrene 360 U 85-01-8Phenanthrene 360 U 129-00-0Pyrene 360 U | 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene | (ug/L or ug/Kg) UG/KG Q 360 U 360 U 360 U 360 U 360 U 360 U | |
| 218-01-9Chrysene 360 U 53-70-3Dibenzo (a,h) anthracene 360 U 206-44-0Fluoranthene 360 U 86-73-7Fluorene 360 U 193-39-5Indeno (1,2,3-cd) pyrene 360 U 85-01-8Phenanthrene 360 U 129-00-0Pyrene 360 U | 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene | (ug/L or ug/Kg) <u>UG/KG</u> Q 360 U 360 U 360 U 360 U 360 U 360 U 360 U 360 U | |
| 206-44-0Fluoranthene 360 U 86-73-7Fluorene 360 U 193-39-5Indeno (1,2,3-cd) pyrene 360 U 85-01-8Phenanthrene 360 U 129-00-0Pyrene 360 U | 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (ghi) perylene 191-24-2Benzo (a) pyrene | (ug/L or ug/Kg) UG/KG Q 360 U | |
| 206-44-0Fluoranthene 360 U 86-73-7Fluorene 360 U 193-39-5Indeno (1,2,3-cd) pyrene 360 U 85-01-8Phenanthrene 360 U 129-00-0Pyrene 360 U | 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene 50-32-8Benzo (a) pyrene 218-01-9Chrysene | (ug/L or ug/Kg) UG/KG Q 360 U | |
| 86-73-7Fluorene 360 U 193-39-5Indeno (1,2,3-cd) pyrene 360 U 85-01-8Phenanthrene 360 U 129-00-0Pyrene 360 U | 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene 50-32-8Benzo (a) pyrene 218-01-9Chrysene | (ug/L or ug/Kg) UG/KG Q 360 U | |
| 85-01-8Phenanthrene 360 U 129-00-0Pyrene 360 U | 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene 50-32-8Benzo (a) pyrene 218-01-9Chrysene 53-70-3Dibenzo (a, h) anthracene | (ug/L or ug/Kg) UG/KG Q 360 U | |
| 85-01-8Phenanthrene 360 U 129-00-0Pyrene 360 U | 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene 50-32-8Benzo (a) pyrene 218-01-9Chrysene 53-70-3Dibenzo (a,h) anthracene 206-44-0Fluoranthene 86-73-7Fluorene | (ug/L or ug/Kg) UG/KG Q 360 U 129-00-0Pyrene 360 U | 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene 50-32-8Benzo (a) pyrene 218-01-9Chrysene 53-70-3Dibenzo (a,h) anthracene 206-44-0Fluoranthene 86-73-7Fluorene | (ug/L or ug/Kg) UG/KG Q 360 U | 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (chi) perylene 191-24-2Benzo (chi) perylene 50-32-8Benzo (a) pyrene 218-01-9Chrysene 53-70-3Dibenzo (a,h) anthracene 206-44-0Fluoranthene 86-73-7Fluorene 193-39-5Indeno (1,2,3-cd) pyrene | (ug/L or ug/Kg) UG/KG Q 360 U | 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene 50-32-8Benzo (a) pyrene 218-01-9Chrysene 53-70-3Dibenzo (a,h) anthracene 206-44-0Fluoranthene 86-73-7Fluorene 193-39-5 | (ug/L or ug/Kg) UG/KG Q 360 U ### LABELLA ASSOCIATES

METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS ANALYSIS DATA SHEET

| | * | • | BH-5 | |
|------------------------------------|---------------|----------------------|------------------|------------|
| Lab Name: STL Buffalo | Contract: | · . | | |
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: <u>A083</u> | | |
| Matrix: (soil/water) SOIL | | Lab Sample ID: | A6A08311 | |
| Sample wt/vol:30.77 (g/mL) | <u>G</u> | Lab File ID: | <u>U15173.RR</u> | |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 08/29/2006 | 09/01/2006 |
| % Moisture: <u>18</u> decanted: (Y | (/n) <u>n</u> | Date Extracted: | 09/07/2006 | : |
| Concentrated Extract Volume: 1000 | (uL) | Date Analyzed: | 09/08/2006 | |
| Injection Volume: 1.00(uL) | | Dilution Factor: | 5.00 | |
| GPC Cleanup: (Y/N) N pH: | | | | |

| | | CONCENTRATION UN | | |
|----------|--------------------------|------------------|--------------|----------|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/KG</u> | Q |
| 83-32-9 | Acenaphthene | | 2000 | U |
| 120-12-7 | Anthracene | | 2000 | ١٠ |
| 56-55-3 | Benzo (a) anthracene | | 330 | <u> </u> |
| 205-99-2 | Benzo (b) fluoranthene | | 750 | U |
| 207-08-9 | Benzo (k) fluoranthene | | 300 | J |
| 191-24-2 | Benzo(ghi)perylene | | 540 | J |
| 50-32-8 | Benzo (a) pyrene | | 540 | J |
| 218-01-9 | Chrysene | | 400 | J |
| 53-70-3 | Dibenzo (a,h) anthracene | | 140 | J |
| 206-44-0 | Fluoranthene | | 510 | J. |
| 86-73-7 | Fluorene | | 2000 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | | 460 | J |
| 85-01-8 | Phenanthrene | | 130 | J |
| 129-00-0 | Pyrene | | 460 | J |
| 91-20-3 | Naphthalene | | 340 | J |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS ANALYSIS DATA SHEET

| | | BH-6 | | [|
|---|---|--|---|-------|
| Lab Name: STL Buffalo Contract: | · · · · · · · · · · · · · · · · · · · | L | | · |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: A083 | <u>.</u> | | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6A08312 | · · | |
| Sample wt/vol: 30.42 (g/mL) G | Lab File ID: | <u>V16834.RR</u> | | · |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 08/31/200 | <u>6 09/01</u> | /2006 |
| % Moisture: <u>57</u> decanted: (Y/N) N | Date Extracted: | 09/11/200 | <u>16</u> | |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: | 09/13/200 | <u>16</u> . | |
| Injection Volume: 1.00 (uL) | Dilution Factor: | 1.00 | | |
| GPC Cleanup: (Y/N) N pH: | | | | · |
| · | | • | | |
| | CONCENTRATION UNITS: | | | |
| | CONCENTRATION UNITS: (ug/L or ug/Kg) | | Q | |
| CAS NO. COMPOUND | (ug/L or ug/Kg) | <u>UG/KG</u> 760 | U . | |
| CAS NO. COMPOUND 83-32-9Acenaphthene 120-12-7Anthracene | (ug/L or ug/Kg) | <u>UG/KG</u> 760 760 | U U | |
| CAS NO. COMPOUND 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo(a) anthracene | (ug/L or ug/Kg) | <u>UG/KG</u> 760 760 | U U U | |
| CAS NO. COMPOUND 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene | (ug/L or ug/Kg) | <u>UG/KG</u> 760 760 760 760 | U U U | |
| CAS NO. COMPOUND 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene | (ug/L or ug/Kg) | <u>UG/KG</u> 760 760 760 760 760 | U U U U U | |
| CAS NO. COMPOUND 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene | (ug/L or ug/Kg) | 760 760 760 760 760 760 760 | U U U U U | |
| CAS NO. COMPOUND 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (ghi) perylene 191-24-2Benzo (a) pyrene | (ug/L or ug/Kg) | 760 760 760 760 760 760 760 760 | U U U U U U | |
| 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (ghi) perylene 191-24-2Benzo (a) pyrene 218-01-9Chrysene | (ug/L or ug/Kg) | 760 760 760 760 760 760 760 760 760 | U U U U U U U | |
| 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene 50-32-8Benzo (a) pyrene 218-01-9Chrysene 53-70-3Dibenzo (a, h) anthracene | (ug/L or ug/Kg) | 760 760 760 760 760 760 760 760 760 760 | U U U U U U U | |
| 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene 50-32-8Benzo (a) pyrene 218-01-9Chrysene 53-70-3Dibenzo (a, h) anthracene 206-44-0Fluoranthene | (ug/L or ug/Kg) | 760 760 760 760 760 760 760 760 760 760 | U U U U U U U U | |
| 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene 50-32-8Benzo (a) pyrene 218-01-9Chrysene 53-70-3Dibenzo (a, h) anthracene | (ug/L or ug/Kg) | UG/KG 760 760 760 760 760 760 760 760 760 760 | U U U U U U U U U | |
| 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene 50-32-8Benzo (a) pyrene 218-01-9Chrysene 53-70-3Dibenzo (a, h) anthracene 206-44-0Fluoranthene 86-73-7Fluorene 193-39-5Indeno (1, 2, 3-cd) pyrene | (ug/L or ug/Kg) | UG/KG 760 760 760 760 760 760 760 760 760 760 | U U U U U U U U U U U U U U U U U U U | |
| 83-32-9 | (ug/L or ug/Kg) | UG/KG 760 760 760 760 760 760 760 760 760 760 | U U U U U U U U U U U U U U U U U U U | |
| 83-32-9Acenaphthene 120-12-7Anthracene 56-55-3Benzo (a) anthracene 205-99-2Benzo (b) fluoranthene 207-08-9Benzo (k) fluoranthene 191-24-2Benzo (ghi) perylene 50-32-8Benzo (a) pyrene 218-01-9Chrysene 53-70-3Dibenzo (a, h) anthracene 206-44-0Fluoranthene 86-73-7Fluorene 193-39-5Indeno (1, 2, 3-cd) pyrene | (ug/L or ug/Kg) | UG/KG 760 760 760 760 760 760 760 760 760 760 | U U U U U U U U U U U U U U U U U U U | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| Lab Name: SIL Buffalo Contract: | BS-5 COMP 1 |
|---|---------------------------------------|
| Lab Code: RECONY Case No.: SAS No.: | SDG No.: <u>A083</u> |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: A6A16906 |
| Sample wt/vol:30.18 (g/mL) <u>G</u> _ | Lab File ID: W11373.RR |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: 09/01/2006 09/06/2006 |
| % Moisture: <u>11</u> decanted: (Y/N) N | Date Extracted: 09/11/2006 |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: 09/15/2006 |
| Injection Volume: 1.00(uL) | Dilution Factor:1.00 |

GPC Cleanup: (Y/N) N

pH: ____

| CAS NO. | COMPOUND | CONCENTRATION UNI (ug/L or ug/Kg) | TTS: UG/KG | Q |
|-----------|------------------------------|--------------------------------------|---------------|----------|
| 83-32-9 | Acenaphthene | | 30 | J |
| 208-96-8 | Acenaphthylene | | 690 | |
| 98-86-2 | Acetophenone | | . 370 | U |
| | Anthracene | | 380 | |
| 1912-24-9 | Atrazine | | 370 | U |
| | Benzaldehyde | | 370 | U |
| 56-55-3 | Benzo (a) anthracene | | 1800 | |
| 205-99-2 | Benzo (b) fluoranthene | | 3300 | |
| 207-08-9 | Benzo (k) fluoranthene | | 990 | |
| 191-24-2 | Benzo(ghi)perylene | | 1000 | |
| 50-32-8 | Benzo (a) pyrene | | 2200 | 1. |
| 92-52-4 | Biphenyl | | 370 | ט |
| 111-91-1 | Bis(2-chloroethoxy) methane | | 370 | U |
| 111-44-4 | Bis(2-chloroethyl) ether | | 370 | ע |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 370 | ט |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | | 61 | J |
| 101-55-3 | 4-Bromophenyl phenyl ether | | 370 | ט |
| 85-68-7 | Butyl benzyl phthalate | | 370 | U |
| 105-60-2 | Caprolactam | | 370 | יט |
| | 4-Chloroaniline | | 370 | ע |
| 59-50-7 | 4-Chloro-3-methylphenol | | 370 : | ע |
| 91-58-7 | 2-Chloronaphthalene | | 370 | ט |
| 95-57-8 | 2-Chlorophenol | | 370 | ט |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | 370 | ט |
| 86-74-8 | Carbazole | | 130 | J |
| 218-01-9 | Chrysene | | 1600 | |
| 53-70-3 | Dibenzo (a, h) anthracene | | 330 | J |
| 132-64-9 | Dibenzofuran | · · | 68 | J |
| 84-74-2 | Di-n-butyl phthalate . | | 370 | U. |
| | 3,3'-Dichlorobenzidine | | 1800 | U . |
| | 2,4-Dichlorophenol | | 370 | U |
| | Diethyl phthalate | | 370 | ט |
| | | | | 1 1 |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| | | | | 1 |
|-------------------------------------|--------------|---------------------------------------|----------------------|-----------------------|
| Lab Name: <u>STL Buffalo</u> | Contract: _ | <u> </u> | | |
| Lab Code: RECNY Case No.: | SAS No.: | | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) SOIL | | | Lab Sample ID: | A6A16906 |
| Sample wt/vol: 30.18 (g/mL) | <u>G</u> | · · · · · · · · · · · · · · · · · · · | Lab File ID: | W11373.RR |
| Level: (low/med) <u>LOW</u> | | | Date Samp/Recv: | 09/01/2006 09/06/2006 |
| % Moisture: <u>11</u> decanted: (Y/ | /N) <u>N</u> | | Date Extracted: | 09/11/2006 |
| Concentrated Extract Volume: 1000(| 止) | | Date Analyzed: | 09/15/2006 |
| Injection Volume: 1.00 (uL) | | · . | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: | | | | |

| CAS NO. | COMPOUND | CONCENTRATION UNI (ug/L or ug/Kg) | TS: <u>UG/KG</u> | Q |
|----------|---------------------------------------|--------------------------------------|---------------------|------|
| 105-67-9 | 2,4-Dimethylphenol | | 370 | Ū |
| | Dimethyl phthalate | | 370 | Ū |
| | 4,6-Dinitro-2-methylphenol | | 1800 | U |
| | 2,4-Dinitrophenol | | 1800 | U |
| | 2,4-Dinitrotoluene | | 370 | שׁ |
| 606-20-2 | 2,6-Dinitrotoluene | , | 370 | ע י |
| | Di-n-octyl phthalate | | 370 | ប |
| 206-44-0 | Fluoranthene | | 3000 | |
| 86-73-7 | Fluorene | | 150 | J |
| 118-74-1 | Hexachlorobenzene | | 370 | U . |
| 87-68-3 | Hexachlorobutadiene | | 370 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 370 | U |
| | Hexachloroethane | | 370 | U |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | | 990 | · . |
| 78-59-1 | Isophorone | | 370 | U |
| | 2-Methylnaphthalene | • | 25 | J. |
| 95-48-7 | 2-Methylphenol | | 370 | U |
| | 4-Methylphenol | | 370 | U |
| | Naphthalene | | 42 | J |
| | 2-Nitroaniline | | 1800::- | U |
| | 3-Nitroaniline | | 1800 | U |
| | 4-Nitroaniline | | 1800 | U |
| | Nitrobenzene | | 370 | U |
| | 2-Nitrophenol | 4 | 370 | U |
| | 4-Nitrophenol_ | | 1800 | U |
| 86-30-6 | N-nitrosodiphenylamine | | 370 | י ען |
| 621-64-7 | N-Nitroso-Di-n-propylamine | | 370 | ט |
| | Pentachlorophenol_ | | 1800 | U |
| | Phenanthrene | | 1200 | |
| 108-95-2 | | · | 370 | U |
| 129-00-0 | | | 2500 | |
| 95-95-4 | 2,4,5-Trichlorophenol | | , 890 🔑 🐰 | U |
| | · · · · · · · · · · · · · · · · · · · | | | 1 |

IABELLA ASSOCIATES IABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| | | | | | | | | | · | |
|-----------|---------------|--------------|---------------|---|-----------------------------|------------------------|-----------|---------------|----------|----|
| Lab Name: | : SIL Buffalo | 2 | Contract: _ | | | | | .* | | • |
| Lab Code: | RECNY C | ase No.: | SAS No. | · . | SDG No.: | <u>A083</u> | | | | |
| Matrix: | (soil/water) | SOIL | , | | Lab Sample | e ID: | A6A16906 | <u>.</u> . | | |
| Sample wt | /vol: | 30.18 (g/mL) | <u>G</u> | | Lab File | D: | W11373.RF | | <u> </u> | ٠. |
| Level: | (low/med) | LOW | | <u>- 4 </u> | Date Samp, | /Recv: | 09/01/200 | <u>6 09/0</u> | 6/2006 | |
| % Moistur | œ: <u>11</u> | decanted: () | 7/N) <u>N</u> | | Date Extra | acted: | 09/11/200 | <u>6</u> | * * | ٠. |
| Concentra | ated Extract | Volume: 1000 | (uL) | | Date Analy | yzed: | 09/15/200 | <u>)6</u> | · | |
| Injection | n Volume: | 1.00 (uL) | | *** | Dilution I | Factor: | 1.00 | | | |
| GPC Clear | iup: (Y/N) i | <u>и</u> рн: | : | • | · | | | | | |
| | CAS NO. | COMPOUND | | CO <u>N</u> (t | ICENTRATION 1g/L or ug/I | UNITS: Kg) <u>[</u> | JG/KG_ | Q | • . | |
| | 88-06-2 | 2,4,6-Trich | lorophenol_ | | | 3 | 370 | υ | | |

LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

| BS-5 | COMD | 7 | ~ | |
|------|------|---|---|--|
| כ-כם | CUMP | Т | | |

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.: A083

Matrix: (soil/water) SOIL Lab Sample ID: A6A16906__

Sample wt/vol: _30.18 (g/mL) <u>G</u> Lab File ID: W11373.RR

Date Samp/Recv: 09/01/2006 09/06/2006 Level: (low/med) LOW

% Moisture: 10.7 decanted: (Y/N) N Date Extracted: 09/11/2006

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/15/2006

Injection Volume: ____1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

Number TICs found: 17 (ug/L or ug/Kg)

| CAS NO. | Compound Name | RT | Est. Conc. | Q | |
|----------------|------------------------------|-------|------------|-----|-----|
| 1. 629-78-7 | HEPTADECANE | 12.26 | 150 | JN | |
| 2. 610-48-0 | 1-METHYLANTHRACENE | 13.44 | 270 | JN | 1. |
| 3. | UNKNOWN PAH | 13.47 | 380 | J | |
| 4. | UNKNOWN PAH | 13.52 | 150 | J | |
| 5. | UNKNOWN | 13.55 | 530 | J | |
| 6. | UNKNOWN | 13.58 | 200 | J | * . |
| 7. 84-65-1 | 9,10-ANTHRACENEDIONE | 13.78 | 440 | JN | |
| 8. | UNKNOWN PAH | 14.02 | 260 | J | ľ |
| 9. | UNKNOWN | 14.05 | 160 | J | |
| 10. 54833-48-6 | 2,6,10,15-TETRAMETHYLHEPTADE | 14.10 | 420 | JN | |
| 11. | UNKNOWN PAH | 14.60 | 160 | J | ł |
| 12. | UNKNOWN PAH | 14.71 | 190 | J . | |
| 13. | UNKNOWN PAH | 15.27 | 170 | J | |
| 14. | UNKNOWN PAH | 16.55 | 400 | J | |
| 15. | UNKNOWN PAH | 16.73 | 1100 | J | |
| 16. | UNKNOWN | 17.41 | 870 | J | |
| 17. | UNKNOWN | 17.75 | 990 | J | |

IABELLA ASSOCIATES IABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| | | BS-5 COMP 2 |
|---|--|-----------------------|
| Lab Name: STL Buffalo Contract: | <u>alleria. San arabahan dan dan dan dan dan dan dan dan dan d</u> | |
| Lab Code: RECNY Case No.: SAS No.: _ | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6A16907 |
| Sample wt/vol: 30.28 (g/mL) G | Lab File ID: | W11376.RR |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 09/01/2006 09/06/2006 |
| % Moisture: <u>18</u> decanted: (Y/N) Y | Date Extracted: | 09/11/2006 |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: | 09/15/2006 |
| Injection Volume: 1.00 (uL) | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: | | |

| CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q | CT C 3.70 | | CONCENTRATION UN | | | _ |
|---|-----------|------------------------------|------------------|-------------|-------|-----|
| 208-96-8Acetopherione | CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/K</u> | 3_ | Q |
| 98-86-2 | 83-32-9 | Acenaphthene | | 400 | . [| J |
| 98-86-2 | 208-96-8 | Acenaphthylene | | 400 | τ | J . |
| 1912-24-9Atrazine | 98-86-2 | Acetophenone | | 400 | · Ţ | J . |
| 100-52-7Benzaldehyde | | | | 400 | I | J · |
| 56-55-3 Benzo (a) anthracene 400 U 205-99-2 Benzo (b) fluoranthene 400 U 207-08-9 Benzo (k) fluoranthene 400 U 191-24-2 Benzo (ghi) perylene 400 U 192-52-4 Benzo (a) pyrene 400 U 111-91-1 Bis (2-chloroethoxy) methane 400 U 111-94-4 Bis (2-chloroethoxy) methane 400 U 117-81-7 Bis (2-chloroethyl) ether 400 U 108-60-1 2, 2' - Oxybis (1-Chloropropane) 400 U 101-55-3 4-Bromophenyl phenyl ether 400 U 101-55-3 4-Bromophenyl phenyl ether 400 U 85-68-7 Butyl benzyl phthalate 400 U 105-60-2 Caprolactam 400 U 105-60-2 Caprolactam 400 U 105-87-8 2-Chlorophenol 400 U 91-58-7 2-Chlorophenol 400 U 91-58-7 2-Chlorophenol 400 U 86-74-8 2-Chlorophenol 400 U 86-74-8 Carbazole 400 U 218-01-9 Chrysene 400 U 32-64-9 Dibenzo (a, h) anthracene 400 U 44-74-2 Di-n-butyl phthalate 440 U 440 U 440 U 440 U 440 U 440 U 440 U 440 U 440 U 440 U 440 U 440 | | | | 400 | τ | J |
| 205-99-2Benzo (b) fluoranthene | 100-52-7 | Benzaldehyde | | 400 | Ţ | J · |
| 207-08-9Benzo (k) fluoranthene | | | | 400 | τ | J. |
| 191-24-2Benzo (ghi) perylene | 205-99-2 | Benzo (b) fluoranthene | | 400 | . [t | J. |
| 50-32-8Benzo(a) pyrene 400 U 92-52-4Biphenyl 400 U 111-91-1Bis (2-chloroethoxy) methane 400 U 111-44-4Bis (2-chloroethyl) ether 400 U 108-60-12,2'-Oxybis (1-Chloropropane) 400 U 117-81-7 | 207-08-9 | Benzo(k) fluoranthene | | 400 | ĮŢ | J |
| 50-32-8Benzo(a) pyrene 400 U 92-52-4Biphenyl 400 U 111-91-1Bis (2-chloroethoxy) methane 400 U 111-44-4Bis (2-chloroethyl) ether 400 U 108-60-12,2'-Oxybis (1-Chloropropane) 400 U 117-81-7 | 191-24-2 | Benzo(ghi)perylene | | 400 | τ | J |
| 111-91-1Bis(2-chloroethoxy) methane | 50-32-8 | Benzo (a) pyrene | | 400 | τ | J |
| 111-44-4Bis(2-chloroethyl) ether | 92-52-4 | Biphenyl | | 400 | τ | J · |
| 108-60-12,2'-Oxybis (1-Chloropropane) | 111-91-1 | Bis(2-chloroethoxy) methane | | 400 | Ţ | Ţ |
| 117-81-7Bis (2-ethylhexyl) phthalate 400 U 101-55-34-Bromophenyl phenyl ether 400 U 85-68-7Butyl benzyl phthalate 400 U 105-60-2Caprolactam 400 U 106-47-8 | 111-44-4 | Bis(2-chloroethyl) ether | | 400 | Ţ | J. |
| 101-55-34-Bromophenyl phenyl ether 400 U 85-68-7Butyl benzyl phthalate 400 U 105-60-2Caprolactam 400 U 106-47-84-Chloroaniline 400 U 59-50-74-Chloro-3-methylphenol 400 U 91-58-72-Chloronaphthalene 400 U 95-57-82-Chlorophenol 400 U 7005-72-34-Chlorophenyl phenyl ether 400 U 86-74-8Carbazole 400 U 218-01-9Chrysene 400 U 218-01-9 | 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | | 1 - | |
| 85-68-7 | 117-81-7 | Bis(2-ethylhexyl) phthalate | | 400 | Ţ | J · |
| 105-60-2Caprolactam | 101-55-3 | 4-Bromophenyl phenyl ether | | 400 | | |
| 106-47-84-Chloroaniline 400 U 59-50-74-Chloro-3-methylphenol 400 U 91-58-72-Chlorophenol 400 U 95-57-82-Chlorophenol 400 U 7005-72-34-Chlorophenyl phenyl ether 400 U 86-74-8Carbazole 400 U 218-01-9Chrysene 400 U 53-70-3Dibenzo (a, h) anthracene 400 U 132-64-9Dibenzo furan 400 U 84-74-2Di-n-butyl phthalate 400 U 91-94-13,3'-Dichlorobenzidine 1900 U 120-83-22,4-Dichlorophenol 400 U | 85-68-7 | Butyl benzyl phthalate | | 400 | Į Ū | J |
| 59-50-74-Chloro-3-methylphenol 400 U 91-58-72-Chloronaphthalene 400 U 95-57-82-Chlorophenol 400 U 7005-72-34-Chlorophenyl phenyl ether 400 U 86-74-8Carbazole 400 U 218-01-9Chrysene 400 U 53-70-3Dibenzo (a, h) anthracene 400 U 132-64-9Dibenzo furan 400 U 84-74-2Di-n-butyl phthalate 400 U 91-94-13,3'-Dichlorobenzidine 1900 U 120-83-22,4-Dichlorophenol 400 U | 105-60-2 | Caprolactam | | 400 | | |
| 91-58-72-Chloronaphthalene 400 U 95-57-82-Chlorophenol 400 U 7005-72-34-Chlorophenyl phenyl ether 400 U 86-74-8Carbazole 400 U 218-01-9Chrysene 400 U 53-70-3Dibenzo (a, h) anthracene 400 U 132-64-9Dibenzo furan 400 U 84-74-2Di-n-butyl phthalate 400 U 91-94-13,3'-Dichlorobenzidine 1900 U 120-83-22,4-Dichlorophenol 400 U | 106-47-8 | 4-Chloroaniline | | 400 | | |
| 91-58-72-Chloronaphthalene 400 U 95-57-82-Chlorophenol 400 U 7005-72-34-Chlorophenyl phenyl ether 400 U 86-74-8Carbazole 400 U 218-01-9Chrysene 400 U 53-70-3Dibenzo (a, h) anthracene 400 U 132-64-9Dibenzo furan 400 U 84-74-2Di-n-butyl phthalate 400 U 91-94-13,3'-Dichlorobenzidine 1900 U 120-83-22,4-Dichlorophenol 400 U | 59-50-7 | 4-Chloro-3-methylphenol | | 400 | U | J |
| 7005-72-34-Chlorophenyl phenyl ether 400 U 86-74-8Carbazole 400 U 218-01-9Chrysene 400 U 53-70-3Dibenzo(a,h) anthracene 400 U 132-64-9Dibenzofuran 400 U 84-74-2Di-n-butyl phthalate 400 U 91-94-13,3'-Dichlorobenzidine 1900 U 120-83-22,4-Dichlorophenol 400 U | 91-58-7 | 2-Chloronaphthalene | | 400 | U | J. |
| 86-74-8Carbazole 400 U 218-01-9Chrysene 400 U 53-70-3Dibenzo (a, h) anthracene 400 U 132-64-9Dibenzofuran 400 U 84-74-2Di-n-butyl phthalate 400 U 91-94-13,3'-Dichlorobenzidine 1900 U 120-83-22,4-Dichlorophenol 400 U | 95-57-8 | 2-Chlorophenol | | 400 | | |
| 218-01-9Chrysene 400 U 53-70-3Dibenzo(a,h) anthracene 400 U 132-64-9Dibenzofuran 400 U 84-74-2Di-n-butyl phthalate 400 U 91-94-13,3'-Dichlorobenzidine 1900 U 120-83-22,4-Dichlorophenol 400 U | 7005-72-3 | 4-Chlorophenyl phenyl ether | | 400 | U | T |
| 53-70-3Dibenzo (a,h) anthracene 400 U 132-64-9Dibenzofuran 400 U 84-74-2Di-n-butyl phthalate 400 U 91-94-13,3'-Dichlorobenzidine 1900 U 120-83-22,4-Dichlorophenol 400 U | | | | 400 | U | Г |
| 132-64-9Dibenzofuran 400 U 84-74-2Di-n-butyl phthalate 400 U 91-94-13,3'-Dichlorobenzidine 1900 U 120-83-22,4-Dichlorophenol 400 U | | | | | U | Γ. |
| 84-74-2Di-n-butyl phthalate 400 U 91-94-13,3'-Dichlorobenzidine 1900 U 120-83-22,4-Dichlorophenol 400 U | 53-70-3 | Dibenzo (a,h) anthracene | | | | |
| 91-94-13,3'-Dichlorobenzidine 1900 U 120-83-22,4-Dichlorophenol 400 U | | | | | ט | |
| 120-83-22,4-Dichlorophenol 400 U | 84-74-2 | Di-n-butyl phthalate | | 400- | 1 | |
| 120-83-22,4-Dichlorophenol 400 U 84-66-2Diethyl phthalate 400 U | | | | 1900 | U | · |
| 84-66-2Diethyl phthalate 400 U | 120-83-2 | 2,4-Dichlorophenol | | 400 | | |
| | 84-66-2 | Diethyl phthalate | | 400 | - U | ` ; |

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LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| Lab Name | : <u>STL Buffalo</u> Contract: | ing the second s | BS-5 CO | 1P 2 | |
|-------------------|--|--|------------|--|---------------------------------------|
| Lab Code | : RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> | | | |
| Matrix: | (soil/water) <u>SOIL</u> | Lab Sample ID: | A6A16907 | <u>. </u> | |
| Sample w | t/vol: _30.28 (g/mL) <u>G</u> | Lab File ID: | W11376.R | 5 | · · · · · · · · · · · · · · · · · · · |
| Level: | (low/med) <u>LOW</u> | Date Samp/Recv: | 09/01/200 | <u>09/0</u> | 6/2006 |
| % Moistu | re: <u>18</u> decanted: (Y/N) <u>Y</u> | Date Extracted: | 09/11/200 | <u>)6</u> | |
| Concentr | ated Extract Volume: 1000 (uL) | Date: Analyzed: | 09/15/200 | <u>)6</u> | 44 1 |
| Injection | n Volume: 1.00 (uL) | Dilution Factor: | 1.00 | | |
| GPC Clear | nup: (Y/N) N pH: | | e jar | | |
| | | CENTRATION UNITS: g/L or ug/Kg) <u>[</u> | g/kg | Q | |
| | | | | | |
| | 105-67-92,4-Dimethylphenol | | 100 100 | บ บ | |
| • | 131-11-3Dimethyl phthalate 534-52-14,6-Dinitro-2-methylphenol | | 900 | บ . | |
| | 51-28-52,4-Dinitrophenol | | 900 | Ū | |
| | 121-14-22,4-Dinitrotoluene | | 100 | Ü | |
| 2 - 1 - 1 - 1 - 1 | 606-20-22,6-Dinitrotoluene | | 100 | Ü | |
| | 117-84-0Di-n-octyl phthalate | I | 100 | U | |
| | 206-44-0Fluoranthene | - 4 | 100 | υ | |
| | 86-73-7Fluorene | 4 | 100 | U | |
| | 118-74-1Hexachlorobenzene | | 100 | υ | * * * * * * * * * * * * * * * * * * * |
| | 87-68-3Hexachlorobutadiene | | 100 | U | |
| | 77-47-4Hexachlorocyclopentadiene | . 4 | 100 | U | |

67-72-1-----Hexachloroethane

78-59-1----Isophorone

95-48-7----2-Methylphenol

106-44-5----4-Methylphenol

99-09-2----3-Nitroaniline

100-01-6----4-Nitroaniline

95-95-4------2,4,5-Trichlorophenol

98-95-3----Nitrobenzene

108-95-2----Phenol 129-00-0----Pyrene

91-20-3----Naphthalene 88-74-4----2-Nitroaniline

193-39-5----Indeno (1, 2, 3-cd) pyrene

91-57-6----2-Methylnaphthalene

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| | BS-5 COMP 2 |
|---|---|
| Lab Name: SIL Buffalo Contract: | · · · · · · · · · · · · · · · · · · · |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: A6A16907 |
| Sample wt/vol: <u>30.28</u> (g/mL) <u>G</u> | Lab File ID: <u>W11376.RR</u> |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: 09/01/2006 09/06/2006 |
| % Moisture: <u>18</u> decanted: (Y/N) Y | Date Extracted: 09/11/2006 |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: 09/15/2006 |
| Injection Volume: 1.00 (uL) | Dilution Factor:1.00 |
| GPC Cleanup: (Y/N) N pH: | |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> Q |
| 88-06-22,4,6-Trichlorophenol_ | 400 U |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENIATIVELY IDENTIFIED COMPOUNDS

| Lab Name | : SIL Buffalo | Contract: | | . : | BS- | 5 COMP 2 | |
|-----------|--------------------------|--------------------------|--|--------------------------|---------------------------------|----------------|------------|
| Lab Code | : <u>RECNY</u> Case No | .: SAS No.: | | SDG No.: | A083 | | |
| Matrix: | (soil/water) <u>SOIL</u> | | | Lab Samp | le ID: <u>A6</u> 2 | <u> 116907</u> | ٠. |
| Sample w | t/vol: <u>30.2</u> | <u>8</u> (g/mL) <u>G</u> | | Lab File | ID: <u>W1</u> | 1376.RR | |
| Level: | (low/med) <u>LOW</u> | | | Date Sam | p/Recv: <u>09</u> / | /01/2006 | 09/06/2006 |
| % Moistu | re: <u>17.6</u> decan | ted: (Y/N) Y | · | Date Ext | racted: 09, | /11/2006 | |
| Concentra | ated Extract Volum | e: <u>1000</u> (uL) | | Date Ana | lyzed: 09/ | /15/2006 | <i>:</i> |
| Injection | n Volume:1.00 | (uL) | | Dilution | Factor: | 1.00 | · · · . |
| GPC Clear | nup: (Y/N) <u>N</u> | pH: | | | | | |
| Number T | ICs found: <u>1</u> | | (| CONCENTRAT (ug/L or 1 | ION UNITS: ug/Kg) <u>U</u> G | g/KG | |
| | CAS NO. | Compound Name |) | RT | Est. Conc | . Q | |
| | | | ************************************* | | | | ╡ |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| | • | | | BS-5 COMP 2 | |
|-----------------------------------|---------------|-------------|--|--------------------|-------|
| Lab Name: <u>STL Buffalo</u> | Contract: | | <u>* </u> | | |
| Lab Code: RECNY Case No.: | _ SAS No.: | | SDG No.: <u>A083</u> | | a : ' |
| Matrix: (soil/water) SOIL | 1180 | : . | Lab Sample ID: | <u>A6A16907FD</u> | |
| Sample wt/vol: 30.74 (g/mL |) <u>G</u> | | Lab File ID: | W11377.RR | · |
| Level: (low/med) <u>LOW</u> | N. 1 & | | Date Samp/Recv: | 09/01/2006 09/06/2 | 2006 |
| % Moisture: <u>18</u> decanted: (| Y/N) <u>Y</u> | | Date Extracted: | 09/11/2006 | |
| Concentrated Extract Volume: 1000 | (uL) | | Date Analyzed: | 09/15/2006 | |
| Injection Volume: 1.00 (uL) | · A | | Dilution Factor: | 1.00 | |
| CDC (Clooming (V/At) At with | • | | | | |

| · · | (| CONCENTRATION | UNITS: | |
|------------------------|-------------------|---------------------------|-----------------|-----|
| CAS NO. COMPOUND | | (ug/L or ug/K | g) <u>UG/KG</u> | Q |
| 83-32-9Acenaphthene | | | 390 | U |
| 208-96-8Acenaphthyle | ene | ·. | 390 | U . |
| 98-86-2Acetophenone | <u></u> | : | 390 | U |
| 120-12-7Anthracene | | | 390 | U - |
| 1912-24-9Atrazine | | | 390 | U |
| 100-52-7Benzaldehyde | 9 | | 390 | U |
| 56-55-3Benzo (a) anth | racene | | 390 | U |
| 205-99-2Benzo (b) fluc | pranthene | | 390 | υ. |
| 207-08-9Benzo(k) fluc | oranthene | | 390 | ָּט |
| 191-24-2Benzo(ghi)pe | erylene | | 390 | U |
| 50-32-8Benzo (a) pyre | ene | | 390 | U |
| 92-52-4Biphenyl | | | 390 | U |
| 111-91-1Bis(2-chlore | ethoxy) methane | | 390 | U . |
| 111-44-4Bis(2-chlore | ethyl) ether | | 390 | U |
| 108-60-12,2'-Oxybis(| (1-Chloropropane) | | 390 | . ប |
| 117-81-7Bis(2-ethylh | exyl) phthalate | | 390 | U |
| 101-55-34-Bromopheny | l phenyl ether | | 390 | U |
| 85-68-7Butyl benzyl | phthalate | | 390 | U |
| 105-60-2Caprolactam | - | | 390 | ប |
| 106-47-84-Chloroaniī | ine | | 390 | ប |
| 59-50-74-Chloro-3-π | ethylphenol | | 390 | ប |
| 91-58-72-Chloronaph | thalene | | 390 | U |
| 95-57-82-Chlorophen | ol | | 390 | U |
| 7005-72-34-Chlorophen | yl phenyl ether | | 390 | ט |
| 86-74-8Carbazole | * * * <u></u> | | 390 | U |
| 218-01-9Chrysene | | | 390 | ַ |
| 53-70-3Dibenzo (a,h) | anthracene | | 390 | ען |
| 132-64-9Dibenzofuran | | | 390 | υ |
| 84-74-2Di-n-butyl p | hthalate | | 390 | U |
| 91-94-13,3'-Dichlor | | | 1900 | U |
| 120-83-22,4-Dichloro | | | 390 | U |
| 84-66-2Diethyl phth | | platements of the same as | 390 - | U |
| 2 • 2 | | | • | 1 . |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

ANALYSIS DATA SHEET

| Lab Name: STL Buffalo Contract: | | BS-5 COM | | | |
|---|---------|-----------|----------------|---------------|-----------|
| Lab Code: RECNY Case No.: SAS No.: SDG No. | : A083 | | ÷. | | |
| Matrix: (soil/water) SOIL Lab Samp | ole ID: | A6A16907F | D | | |
| Sample wt/vol: 30.74 (g/mL) G Lab File | D: | W11377.RR | | | |
| Level: (low/med) <u>LOW</u> Date Sam | p/Recv: | 09/01/200 | 6 <u>09/</u> 0 | <u>06/200</u> | <u>)6</u> |
| % Moisture: 18 decanted: (Y/N) Y Date Ext | racted: | 09/11/200 | <u>6</u> | | |
| Concentrated Extract Volume: 1000 (uL) Date Ana | lyzed: | 09/15/200 | <u>6</u> - | . : | |
| Injection Volume: 1.00 (uL) Dilution | Factor: | 1.00 | | | , |
| GPC Cleanup: (Y/N) N pH: | .• | ٠., | | | |
| CONCENTRATIO CAS NO. COMPOUND (ug/L or ug | | | Q. | | |
| 105 67 0 2 4 Directly July 201 | | 300 | T T |] | |

| | CAS NO. | COMPOUND | (ug/L or ug/K | g) <u>UG</u> | /KG | Q | |
|-----|----------|-----------------------------|---------------|--------------|-----------|-----|-------|
| | 105-67-9 | -2,4-Dimethylphenol | | 390 |) . | U | |
| | 131-11-3 | -Dimethyl phthalate | | 390 |). | U | |
| | 534-52-1 | -4,6-Dinitro-2-methylphenol | | 1900 |) · · · · | U | - |
| | | -2,4-Dinitrophenol | • | 1900 |) | U | |
| | | -2,4-Dinitrotoluene | | 390 |) | ប | |
| | 606-20-2 | -2,6-Dinitrotoluene | | 390 |) | שׁ | 1 |
| | 117-84-0 | -Di-n-octyl phthalate | | 390 |) | Ü | |
| | 206-44-0 | -Fluoranthene | | 390 |) | U | |
| | 86-73-7 | -Fluorene | | 390 |). | U | |
| | 118-74-1 | -Hexachlorobenzene | | 390 |) | U | |
| | 87-68-3 | -Hexachlorobutadiene | | 390 |) | U | |
| | 77-47-4 | -Hexachlorocyclopentadiene | | 390 | | U | - |
| | 67-72-1 | -Hexachloroethane | | 390 | | U | |
| | 193-39-5 | -Indeno(1,2,3-cd)pyrene | | 390 |) . | U | |
| | 78-59-1 | -Isophorone | | 390 | | U | |
| | 91-57-6 | -2-Methylnaphthalene | | 390 |) | U | |
| | | -2-Methylphenol | | . 390 | | υ. | |
| | 106-44-5 | -4-Methylphenol | | 390 | | U | |
| | 91-20-3 | -Naphthalene | | . 390 | | U | |
| | 88-74-4 | -2-Nitroaniline | | 1900 |) | U | |
| | | -3-Nitroaniline | | 1900 |) , | U | ŀ |
| | | -4-Nitroaniline | | 1900 |) | U | |
| | | -Nitrobenzene | | 390 | | U | |
| | 88-75-5 | -2-Nitrophenol | | 390 |) | ָּט | |
| | | -4-Nitrophenol | | 1900 | | U | . . |
| | 86-30-6 | -N-nitrosodiphenylamine | | 390 |) . | U | |
| | 621-64-7 | -N-Nitroso-Di-n-propylamine | | 390 |) . | U | |
| | 87-86-5 | -Pentachlorophenol | | 1900 |) | U. | |
| | 85-01-8 | -Phenanthrene | | 390 |), • | U | |
| | 108-95-2 | | | 390 |) · . | U | |
| | 129-00-0 | -Pyrene | | 390 | | U | |
| | 95-95-4 | -2,4,5-Trichlorophenol | | 950 |) | U . | |
| . 1 | | | | | | I | 1 |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| | BS-5 COMP 2 | ļ. |
|---|-----------------------|----|
| Lab Name: STL Buffalo Contract: | | • |
| Lab Code: RECNY Case No.: SAS No.: SDG No.: A083 | | |
| Matrix: (soil/water) SOIL Lab Sample ID: | A6A16907FD | |
| Sample wt/vol: 30.74 (g/mL) G Lab File ID: | <u>W11377.RR</u> | |
| Level: (low/med) LOW Date Samp/Recv: | 09/01/2006 09/06/2006 | |
| % Moisture: <u>18</u> decanted: (Y/N) Y Date Extracted: | 09/11/2006 | |
| Concentrated Extract Volume: 1000 (uL) Date Analyzed: | 09/15/2006 | |
| Injection Volume: 1.00 (uL) Dilution Factor | :1.00 | |
| GPC Cleanup: (Y/N) N pH: | | |
| Injection Volume: 1.00 (uL) Dilution Factor: 1.00 | | |
| 88-06-22,4,6-Trichlorophenol | 390 U | |

LABELLA ASSOCIATES LABELLA ASSOCIATES D 8270 - TCL SEMI-VOLATILE ORGANI

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| Lab Name | : STL Buffalo | Contrac | t: | <u>.</u> | | BS-5 CO | | |
|-----------|--------------------------|--------------------------|--|--------------------------|---------|---------------|--------|--|
| Lab Code | : <u>RECNY</u> Case No | .: SAS | 5 No.: | SDG No.: | A083 | :- : : : | V.: | |
| Matrix: | (soil/water) <u>SOIL</u> | | en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de | Lab Samp | le ID: | A6A1690 | 07FD | 1 |
| Sample w | t/vol: <u>30.7</u> | <u>4</u> (g/mL) <u>G</u> | | Lab File | . ID; | <u>W11377</u> | .RR | * 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |
| Level: | (low/med) <u>LOW</u> | i ja kari akar | | Date Sam | p/Recv: | 09/01/2 | 2006 0 | 9/06/2006 |
| % Moistu | re: <u>17.6</u> decan | ted: (Y/N) <u>Y</u> | | Date Ext | racted: | 09/11/2 | 2006 | *** 11 · |
| Concentra | ated Extract Volum | e: <u>1000</u> (uL) | | Date Ana | lyzed: | 09/15/2 | 2006 | the second |
| Injection | n Volume:1.00 | (uL) | | Dilution | Factor | :1.0 | 00 | |
| GPC Clear | nup: (Y/N) N | pH: | | | . • . • | | | |
| Number T | ICs found: <u>0</u> | | | CONCENTRAT (ug/L or 1 | | | | 14 31.31 F F |
| | CAS NO. | Compou | nd Name | RT | Est. | Conc. | Q | |
| • • • | | | | | | | | 1 |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| - 4 - <u>-</u> | | | |
|---------------------------------|---------------------------------|--|-----------------------|
| Lab Name: STL Buffalo | Contract: _ | The second secon | |
| Lab Code: <u>RECNY</u> Case No. | SAS No.: | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) SOIL | tation of the second | Lab Sample ID: | A6A08306 |
| Sample wt/vol: 30.73 | (g/mL) <u>G</u> | Lab File ID: | <u>W11360.RR</u> |
| Level: (low/med) <u>LOW</u> | iki ngayot ⁿ abiko i | Date Samp/Recv: | 08/30/2006 09/01/2006 |
| % Moisture: <u>13</u> decante | ed: (Y/N) <u>N</u> | Date Extracted: | 09/11/2006 |
| Concentrated Extract Volume: | :_1000 (uL) | Date Analyzed: | 09/14/2006 |
| Injection Volume: 1.00(uI | <u>'</u>) | Dilution Factor | 1.00 |

GPC Cleanup: (Y/N) N pH: ____

| CAS NO. | COMPOUND | CONCENTRATION UNI (ug/L or ug/Kg) | ITS: UG/KG | · 0 |
|-----------|------------------------------|--------------------------------------|---------------|--------------|
| | CALOLE | | 00/10 | ~ |
| | Acenaphthene | | 26 | J |
| | Acenaphthylene | | 370 | U |
| | Acetophenone | | 370 | U |
| 120-12-7 | | | 61 | J |
| 1912-24-9 | | | 370 | U |
| | Benzaldehyde | | 370 | U |
| | Benzo (a) anthracene | | 150 | J |
| | Benzo (b) fluoranthene | | 190 | J |
| | Benzo(k) fluoranthene | | 200 | J |
| | Benzo(ghi)perylene | | 70 | J |
| | Benzo (a) pyrene | | 120 | J |
| 92-52-4 | | | 370 | U |
| 111-91-1 | Bis(2-chloroethoxy) methane | | 370 | U |
| | Bis(2-chloroethyl) ether | | 370 | U |
| | 2,2'-Oxybis(1-Chloropropane) | · | 370 | ע |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | ,,,,, | 370 | U |
| | 4-Bromophenyl phenyl ether | | 370 | U |
| 85-68-7 | Butyl benzyl phthalate | | 370 | U |
| | Caprolactam | | 370 | U · |
| ł | 4-Chloroaniline | | 370 | U |
| | 4-Chloro-3-methylphenol | | 370 | U |
| | 2-Chloronaphthalene | | 370 | U |
| | 2-Chlorophenol | | 370 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | 370 | U |
| 86-74-8 | Carbazole | | 370 | U |
| 218-01-9 | | | 130 | J |
| | Dibenzo(a,h)anthracene | : | 22 | J |
| | Dibenzofuran | | 370 | U |
| | Di-n-butyl phthalate | | 370 | U |
| 91-94-1 | -3,3'-Dichlorobenzidine | | 1800 | U |
| | -2,4-Dichlorophenol | | 370 | U |
| 84-66-2 | -Diethyl phthalate | and the special property of | 37 0 | U |

IABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

BS-7(1-1.5 & 2-2.8)

| Lab Name: STL Buffalo Contract: | BS-7(1-1.5 | |
|---|------------|------------|
| Lab Code: RECNY Case No.: SAS No.: SDG No.: A083 | | |
| Matrix: (soil/water) SOIL Lab Sample ID: 2 | A6A08306 | |
| Sample wt/vol: 30.73 (g/mL) G Lab File ID: 1 | W11360.RR | <u> </u> |
| Lével: (low/med) <u>LOW</u> Date Samp/Recv: (| 08/30/2006 | 09/01/2006 |
| % Moisture: 13 decanted: (Y/N) N Date Extracted: 9 | 09/11/2006 | |
| Concentrated Extract Volume: 1000 (uL) Date Analyzed: | 09/14/2006 | |
| Injection Volume: 1.00 (uL) Dilution Factor: | 1.00 | |
| GPC Cleanup: (Y/N) N pH: | | |
| CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/kg) <u>u</u> | G/KG (|) |

| | CAS NO. COMPOUND | (ug/L or ug/Kg |) <u>UG/KG</u> | Q |
|----|------------------------------------|---------------------|----------------|------------|
| | 105-67-92,4-Dimethylphenol | | 370 | U |
| | 131-11-3Dimethyl phthalate | | 370 | U |
| | 534-52-14,6-Dinitro-2-methylphenol | | 1800 | ט |
| | 51-28-52,4-Dinitrophenol | | 1800 | U |
| | 121-14-22,4-Dinitrotoluene | | 370 | Ū |
| | 606-20-22,6-Dinitrotoluene | | 370 | U |
| | 117-84-0Di-n-octyl phthalate | | 370 | U |
| | 206-44-0Fluoranthene | | 320 | J · · |
| | 10C 73 7 Element | | 370 | U |
| | 118-74-1Hexachlorobenzene | | 370 | U |
| | 87-68-3Hexachlorobutadiene | | 370 | U |
| | 77-47-4Hexachlorocyclopentadiene | | 370 | U |
| ÷. | 67-72-1Hexachloroethane | | 370 | U |
| | 193-39-5Indeno (1,2,3-cd) pyrene | | 66 | J |
| | 78-59-1Isophorone | | 370 | ี บ |
| | 91-57-62-Methylnaphthalene | | 20 | J |
| | 95-48-72-Methylphenol | | 370 | ַ ט |
| | 106-44-54-Methylphenol | | 370 | ע |
| | 91-20-3Naphthalene | | 370 | ט |
| | 88-74-42-Nitroaniline | | 1800 | ט |
| | 99-09-23-Nitroaniline | | 1800 | U |
| : | 100-01-64-Nitroaniline | | 1800 | ט |
| | 98-95-3Nitrobenzene | | 370 | ט |
| | 88-75-52-Nitrophenol | | 370 | ט |
| | 100-02-74-Nitrophenol | | 1800 | U |
| | 86-30-6N-nitrosodiphenylamine | · . | 370 | ប |
| | 621-64-7N-Nitroso-Di-n-propylamine | | 370 | U |
| | 87-86-5Pentachlorophenol | | 1800 | U . |
| | 85-01-8Phenanthrene | | 260 | J |
| | 108-95-2Phenol | | 370 | U |
| | 129-00-0Pyrene | | 220 | J |
| | 95-95-42,4,5-Trichlorophenol | and with the second | 900 | U |
| | | | | |

IABEILA ASSOCIATES IABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

BS-7(1-1.5 & 2-2.8) Lab Name: STL Buffalo Contract: Lab Code: RECNY Case No.: SAS No.: SDG No.: A083 Lab Sample ID: A6A08306 Matrix: (soil/water) SOIL Lab File ID: W11360.RR Sample wt/vol: 30.73 (g/mL) G Date Samp/Recv: 08/30/2006 09/01/2006 Level: (low/med) LOW % Moisture: 13 decanted: (Y/N) N Date Extracted: 09/11/2006 Date Analyzed: 09/14/2006 Concentrated Extract Volume: 1000 (uL) Dilution Factor: ____1.00 Injection Volume: 1.00 (uL) GPC Cleanup: (Y/N) N pH: ____ CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG_ - Q CAS NO. COMPOUND U . 370 88-06-2----2,4,6-Trichlorophenol

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

BS-7(1-1.5 & 2-2.8)

| Lab Name | : STL Buffalo | Contract: | | | | |
|-----------|--------------------------|---|--------------------------|---------------------------------|---------------|------------|
| Lab Code | : <u>RECNY</u> Case No | o.: SAS No.: | SDG No.: | A083 | 80 - L 8 - 1. | 1.1 |
| Matrix: | (soil/water) <u>SOIL</u> | the state of the substitution of the | Lab Samp | ole ID: <u>A6A0</u> | 8306 | |
| Sample w | t/vol: <u>30.7</u> | 3 (g/mL) <u>G</u> | Lab File | ID: <u>W113</u> | 60.RR | |
| Level: | (low/med) <u>LOW</u> | 100 martines en en en en en en en en en en en en en | Date Sam | p/Recv: <u>08/3</u> | 0/2006 (|)9/01/2006 |
| % Moistu | re: <u>13.0</u> decan | ted: (Y/N) N | Date Ext | racted: 09/1 | 1/2006 | |
| Concentr | ated Extract Volum | e: <u>1000</u> (uL) | Date Ana | lyzed: <u>09/1</u> | <u>4/2006</u> | |
| Injection | n Volume: <u>1.00</u> | (uL) | Dilution | Factor: | 1.00 | |
| GPC Clear | nup: (Y/N) N | pH: | | • | | . • |
| Number T | ICs found: 0 | | CONCENTRAT (ug/L or 1 | ION UNITS: ug/Kg) <u>UG/</u> | KG_ | |
| | CAS NO. | Compound Name | RT | Est. Conc. | Q | |
| | | | | | | 7 |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| Lab Name: STL Buffalo Contract: | • | |
|--|------------------|-----------------------|
| Lab Code: RECNY Case No.: SAS No.: | | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6A08308 |
| Sample wt/vol: 30.62 (g/mL) G | Lab File ID: | W11362.RR |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 08/30/2006 09/01/2006 |
| % Moisture: 20 decanted: (Y/N) N | Date Extracted: | 09/11/2006 |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: | 09/14/2006 |
| Injection Volume: 1.00(ut) | Dilution Factor: | 1.00 |

GPC Cleanup: (Y/N) N pH: ____

| | | CONCENTRATION UNI | | |
|-----------|------------------------------|-------------------|-------|-----|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
| | Acenaphthene | a. | 400 | U |
| 208-96-8 | Acenaphthylene | | 400 | U |
| 98-86-2 | Acetophenone | - 1 | 400 | U |
| | Anthracene | | 400 | ע |
| 1912-24-9 | | | 400 | U . |
| | Benzaldehyde | | 400 | υ |
| 56-55-3 | Benzo (a) anthracene | | 400 | U. |
| | Benzo (b) fluoranthene | | 400 | יט |
| | Benzo(k)fluoranthene | | 400 | บ |
| 191-24-2 | Benzo(ghi)perylene | | 400 | U |
| 50-32-8 | Benzo (a) pyrene | | 400 | U |
| 92-52-4 | Biphenyl | | 400 | U |
| 111-91-1 | Bis(2-chloroethoxy) methane | | 400 | U |
| 111-44-4 | Bis(2-chloroethyl) ether | | 400 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 400 | U . |
| | Bis(2-ethylhexyl) phthalate | | 400 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | | 400 | U |
| 85-68-7 | Butyl benzyl phthalate | | 400 | U |
| 105-60-2 | Caprolactam | | 400 | U |
| 106-47-8 | 4-Chloroaniline | | 400 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | | 400 | ט |
| 91-58-7 | 2-Chloronaphthalene | | 400 | ן ט |
| 95-57-8 | 2-Chlorophenol | · | 400 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | 400 | U |
| 86-74-8 | Carbazole | | 400 | U |
| 218-01-9 | Chrysene | | 400 | ַ ע |
| 53-70-3 | Dibenzo (a,h) anthracene | | 400 | U |
| 132-64-9 | Dibenzofuran | | 400 | U |
| | Di-n-butyl phthalate | | 400 | U |
| 91-94-1 | -3,3'-Dichlorobenzidine | | 2000 | U |
| | -2,4-Dichlorophenol | | 400 | U |
| | -Diethyl phthalate | | 400 🛶 | U |

LABELLA ASSOCIATES LABELLA ASSOCIATES ::

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| Lab Name: STL Buffalo Contract: | BS-7(4-5.5 & 6-7.6) |
|---|---------------------------------------|
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> |
| Matrix: (soil/water) SOIL | Lab Sample ID: A6A08308 |
| Sample wt/vol: 30.62 (g/mL) G | Lab File ID: <u>W11362.RR</u> |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: 08/30/2006 09/01/2006 |
| % Moisture: <u>20</u> decanted: (Y/N) N | Date Extracted: 09/11/2006 |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: 09/14/2006 |
| Injection Volume: 1.00 (uL) | Dilution Factor: 1.00 |

GPC Cleanup: (Y/N) N pH: ____

| CONCENTRATION | UNITS: |
|---------------|--------|
|---------------|--------|

| CTA CL ATCO | CONTRACT BED | CONCENTRATION UNI | | |
|-------------|----------------------------|-------------------|--------------|-----|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/KG</u> | Q |
| 105-67-9 | 2,4-Dimethylphenol | | 400 | U |
| 131-11-3 | Dimethyl phthalate | | 400 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | | 2000 | U |
| | 2,4-Dinitrophenol | | 2000 | U |
| 121-14-2 | 2,4-Dinitrotoluene | · | 400 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 400 | שׁ |
| 117-84-0 | Di-n-octyl phthalate | | 400 | U |
| 206-44-0 | Fluoranthene | | 400 | . U |
| 86-73-7 | | | 400 | U |
| 118-74-1 | Hexachlorobenzene | | 400 | U |
| 87-68-3 | Hexachlorobutadiene | | 400 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 400 | ָּט |
| 67-72-1 | Hexachloroethane | | 400 | ע י |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | | 400 | U |
| 78-59-1 | Isophorone | | 400 | U |
| 91-57-6 | 2-Methylnaphthalene | | 400 | . U |
| 95-48-7 | 2-Methylphenol | | 400 | υ. |
| 106-44-5 | 4-Methylphenol | | 400 | U |
| 91-20-3 | Naphthalene | | 400 | ט |
| | 2-Nitroaniline | | 2000 | U . |
| | 3-Nitroaniline | | 2000 | ן ט |
| | 4-Nitroaniline | | 2000 | U |
| | Nitrobenzene | | 400 | ט |
| 88-75-5 | 2-Nitrophenol | | 400 | ប |
| 100-02-7 | 4-Nitrophenol | | 2000 | ប |
| 86-30-6 | N-nitrosodiphenylamine | | 400 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | | 400 | U |
| 87-86-5 | Pentachlorophenol | | 2000 | U |
| | Phenanthrene | | 400 | U |
| 108-95-2 | | | 400 | U |
| 129-00-0 | Pyrene | | 400 | υ |
| | -2,4,5-Trichlorophenol | | 980 | U |

400

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

BS-7(4-5.5 & 6-7.6) Lab Name: STL Buffalo Contract: Lab Code: RECNY Case No.: SAS No.: SDG No.: A083 Matrix: (soil/water) SOIL Lab Sample ID: A6A08308 Sample wt/vol: 30.62 (g/mL) <u>G</u> Lab File ID: W11362.RR Level: (low/med) LOW Date Samp/Recv: 08/30/2006 09/01/2006 % Moisture: <u>20</u> decanted: (Y/N) N Date Extracted: 09/11/2006 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/14/2006 Injection Volume: 1.00 (uL) Dilution Factor: ____1.00 GPC Cleanup: (Y/N) N pH: ____ CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0

88-06-2----2,4,6-Trichlorophenol

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| Lab Name: STL Buffalo Contract: | BS-7(4-5.5 & 6-7.6) |
|---|-----------------------|
| Lab Code: RECNY Case No.: SAS No.: SDG No.: A083 | |
| Matrix: (soil/water) SOIL Lab Sample ID: | A6A08308 |
| Sample wt/vol: _30.62 (g/mL) G | <u>W11362.RR</u> |
| Level: (low/med) <u>LOW</u> Date Samp/Recv: | 08/30/2006 09/01/2006 |
| % Moisture: 19.9 decanted: (Y/N) N Date Extracted: | 09/11/2006 |
| Concentrated Extract Volume: 1000 (uL) Date Analyzed: | 09/14/2006 |
| Injection Volume: 1.00 (uL) Dilution Factor | : 1.00 |
| GPC Cleanup: (Y/N) N pH: | |
| Number TICs found: _0 CONCENTRATION UNI (ug/L or ug/Kg) | |
| CAS NO. Compound Name RT Est. | Conc. Q |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

BS-9(2-3.2 & 4-4.6)

| Lab Name: STL Buffalo Contract: | B5-5(2 3.2 & 1 1.6) |
|---|---------------------------------------|
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> |
| Matrix: (soil/water) SOIL | Lab Sample ID: A6A08307 |
| Sample wt/vol: <u>30.67</u> (g/mL) <u>G</u> | Lab File ID: <u>W11361.RR</u> |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: 08/30/2006 09/01/2006 |
| % Moisture: 8 decanted: (Y/N) N | Date Extracted: 09/11/2006 |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: 09/14/2006 |
| Injection Volume: 1.00 (uL) | Dilution Factor: 1.00 |

GPC Cleanup: (Y/N) N pH: ____

| CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 83-32-9 | *. | | CONCENTRATION UN | | | |
|--|-----------|------------------------------|------------------|--------------|-----|----------|
| 208-96-8Acenaphthylene 340 98-86-2Acetophenone 350 U 120-12-7Anthracene 130 U 1912-24-9Atrazine 350 U 100-52-7 | CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/KG</u> | , (| <u> </u> |
| 208-96-8 | 83-32-9 | Acenaphthene | | | U | |
| 120-12-7Anthracene 130 | 208-96-8 | Acenaphthylene | | | | |
| 1912-24-9 Atrazine 350 U 100-52-7 Benzaldehyde 350 U 100-52-7 Benzaldehyde 350 U 100-52-7 Benzaldehyde 350 U 1600 207-08-9 Benzaldehyde 1600 207-08-9 Benzaldehyde 1600 1600 1600 191-24-2 Benzaldehyde 570 50-32-8 Benzaldehyde 930 92-52-4 Biphenyl 350 U 111-91-1 Bis (2-chloroethoxy) methane 350 U 111-44-4 Bis (2-chloroethyl) ether 350 U 117-81-7 Bis (2-chloroethyl) ether 350 U 117-81-7 Bis (2-chlylhexyl) phthalate 350 U 101-55-3 4-Bromophenyl phenyl ether 350 U 105-60-2 Caprolactam 350 U 106-47-8 4-Chloroaniline 350 U 106-47-8 4-Chloroaniline 350 U 105-60-2 4-Chloroaniline 350 U 105-67-2 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 4-Chlorophenol 350 U 105-72-3 | 98-86-2 | Acetophenone | | | - | ٠. |
| 100-52-7Benzaldehyde 350 U 56-52-3Benzo (a) anthracene 430 205-99-2Benzo (b) fluoranthene 1600 207-08-9Benzo (ghi) perylene 570 50-32-8 | 120-12-7 | Anthracene | | | L | • |
| 100-32-7 | 1912-24-9 | Atrazine | | · · | | ٠. |
| 205-99-2Benzo (b) fluoranthene 1600 207-08-9Benzo (k) fluoranthene 1600 191-24-2Benzo (ghi) perylene 570 | | | | • | U | |
| 207-08-9 | 56-55-3 | Benzo (a) anthracene | | | } | |
| 191-24-2 | 205-99-2 | Benzo (b) fluoranthene | | | l | |
| Solution | 207-08-9 | Benzo (k) fluoranthene | | | | |
| 92-52-4 | 191-24-2 | Benzo (ghi) perylene | | | | - |
| 111-91-1Bis (2-chloroethoxy) methane 350 U 111-44-4Bis (2-chloroethyl) ether 350 U 108-60-12,2'-Oxybis (1-Chloropropane) 350 U 117-81-7Bis (2-ethylhexyl) phthalate 350 U 101-55-34-Bromophenyl phenyl ether 350 U 85-68-7Butyl benzyl phthalate 350 U 85-68-7Butyl benzyl phthalate 350 U 105-60-2Caprolactam 350 U 106-47-84-Chloroaniline 350 U 59-50-74-Chloro-3-methylphenol 350 U 91-58-72-Chloronaphthalene 350 U 95-57-82-Chlorophenol 350 U 95-57-82-Chlorophenol 350 U 86-74-8Carhazole 40 J 218-01-9Chrysene 430 53-70-3Dibenzo (a, h) anthracene 200 J 132-64-9Dibenzo furan 350 U 84-74-2Di-n-butyl phthalate 350 U 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | | | | | | |
| 111-91-1Bis (2-chloroethxyl) ether 350 U 111-44-4Bis (2-chloroethyl) ether 350 U 108-60-12,2'-Oxybis (1-Chloropropane) 350 U 117-81-7Bis (2-ethylhexyl) phthalate 350 U 101-55-34-Bromophenyl phenyl ether 350 U 85-68-7Butyl benzyl phthalate 350 U 105-60-2Caprolactam 350 U 106-47-84-Chloroaniline 350 U 59-50-74-Chloro-3-methylphenol 350 U 91-58-72-Chlorophenol 350 U 7005-72-34-Chlorophenyl phenyl ether 350 U 86-74-82-Chlorophenyl phenyl ether 350 U 86-74-8Carbazole 40 J 218-01-9Chrysene 430 J 53-70-3Dibenzo (a, h) anthracene 200 J 132-64-9Dibenzo furan 350 U 84-74-2Di-n-butyl phthalate 350 U 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | 92-52-4 | Biphenyl | | | - | |
| 111-44-4 | 111-91-1 | Bis(2-chloroethoxy) methane_ | | | 1 - | |
| 108-80-1 2,2 Cxyplis (1-chrosophophery) 350 U 117-81-7Bis (2-ethylhexyl) phthalate 350 U 85-68-7 | | | · | |) - | |
| 101-55-34-Bromophenyl phenyl ether 350 U 85-68-7Butyl benzyl phthalate 350 U 105-60-2Caprolactam 350 U 106-47-84-Chloroaniline 350 U 59-50-74-Chloro-3-methylphenol 350 U 91-58-72-Chlorophenol 350 U 95-57-82-Chlorophenol 350 U 7005-72-34-Chlorophenyl phenyl ether 350 U 86-74-8Carbazole 40 J 218-01-9Chrysene 430 J 53-70-3Dibenzo(a,h) anthracene 200 J 132-64-9Dibenzofuran 350 U 84-74-2Di-n-butyl phthalate 350 U 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | | | · | | | |
| 85-68-7 | 117-81-7 | Bis(2-ethylhexyl) phthalate | | | 1 - | |
| 105-60-2Caprolactam 350 U 106-47-84-Chloroaniline 350 U 59-50-74-Chloro-3-methylphenol 350 U 91-58-72-Chloronaphthalene 350 U 95-57-82-Chlorophenol 350 U 7005-72-34-Chlorophenyl phenyl ether 350 U 86-74-8Carbazole 40 J 218-01-9Chrysene 430 J 53-70-3Dibenzo(a,h) anthracene 200 J 132-64-9Dibenzofuran 350 U 84-74-2Di-n-butyl phthalate 350 U 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | | | | | | |
| 106-47-84-Chloroaniline 350 U 59-50-74-Chloro-3-methylphenol 350 U 91-58-72-Chloronaphthalene 350 U 95-57-82-Chlorophenol 350 U 7005-72-34-Chlorophenyl phenyl ether 350 U 86-74-8Carbazole 40 J 218-01-9Chrysene 430 J 53-70-3Dibenzo(a, h) anthracene 200 J 132-64-9Dibenzofuran 350 U 84-74-2Di-n-butyl phthalate 350 U 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | 85-68-7 | Butyl benzyl phthalate | | | | |
| 59-50-74-Chloro-3-methylphenol 350 U 91-58-72-Chloronaphthalene 350 U 95-57-82-Chlorophenol 350 U 7005-72-34-Chlorophenyl phenyl ether 350 U 86-74-8Carbazole 40 J 218-01-9Chrysene 430 J 53-70-3Dibenzo(a,h) anthracene 200 J 132-64-9Dibenzofuran 350 U 84-74-2Di-n-butyl phthalate 350 U 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | 105-60-2 | Caprolactam | | | | |
| 91-58-72-Chloronaphthalene 350 U 95-57-82-Chlorophenol 350 U 7005-72-34-Chlorophenyl phenyl ether 350 U 86-74-8Carbazole 40 J 218-01-9Chrysene 430 S 53-70-3Dibenzo(a,h) anthracene 200 J 132-64-9Dibenzofuran 350 U 84-74-2Di-n-butyl phthalate 350 U 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | | | | | 1 - | |
| 95-57-82-Chlorophenol 350 U 7005-72-34-Chlorophenyl phenyl ether 350 U 86-74-8Carbazole 40 J 218-01-9Chrysene 430 J 53-70-3Dibenzo(a,h) anthracene 200 J 132-64-9Dibenzofuran 350 U 84-74-2Di-n-butyl phthalate 350 U 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | 59-50-7 | 4-Chloro-3-methylphenol_ | | · · | 1 - | |
| 7005-72-34-Chlorophenyl phenyl ether 350 U 86-74-8Carbazole 40 J 218-01-9Chrysene 430 J 53-70-3Dibenzo(a,h) anthracene 200 J 132-64-9Dibenzofuran 350 U 84-74-2Di-n-butyl phthalate 350 U 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | 91-58-7 | 2-Chloronaphthalene | | | 1 - | |
| 350 U 120-83-22,4-Dichlorophenol 350 U 120-83-22,4-Dichlorophenol 350 U 130-84-92,4-Dichlorophenol 350 U 120-83-22,4-Dichlorophenol 350 U 120-83-2 | | | | | ١- | • |
| 218-01-9Chrysene 430 53-70-3Dibenzo(a,h) anthracene 200 132-64-9Dibenzofuran 350 84-74-2Di-n-butyl phthalate 350 91-94-13,3'-Dichlorobenzidine 1700 120-83-22,4-Dichlorophenol 350 | 7005-72-3 | 4-Chlorophenyl phenyl ether | | | 1 - | |
| 53-70-3Dibenzo (a, h) anthracene 200 J 132-64-9Dibenzofuran 350 U 84-74-2Di-n-butyl phthalate 350 U 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | 86-74-8 | Carbazole | | | J | |
| 132-64-9Dibenzofuran 350 U 84-74-2Di-n-butyl phthalate 350 U 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | | | | | | |
| 132-64-9Dibenzofuran 350 U 84-74-2Di-n-butyl phthalate 350 U 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | 53-70-3 | Dibenzo (a, h) anthracene | | | 1 | |
| 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | 132-64-9 | Dibenzofuran | | | | ٠ |
| 91-94-13,3'-Dichlorobenzidine 1700 U 120-83-22,4-Dichlorophenol 350 U | | | | | | 5.4 |
| 120-83-22,4-DICHOLOMERAL | 91-94-1 | 3,3'-Dichlorobenzidine | | | 1 1 | |
| 84-66-2Diethyl phthalate | 120-83-2 | 2,4-Dichlorophenol | | | 1 - | • |
| | 84-66-2 | Diethyl phthalate | | 350 | ַע | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| | : SIL Buffalo | | Contract: | | | BS-9(2-3. | 2 & 4-4.6) |
|---|---------------------|-----------------------------|------------------------------|---------------|-----------------|-----------|---|
| | | | SAS No.: | | <u>አ</u> በደ3 | | |
| عميد صفد | · MECIVI | BC 110 | SAS IVO. | | 11005 | | er en en en en en en en en en en en en en |
| Matrix: | (soil/water) | SOIL | | Lab Sample | e ID: A | 6A08307 | - |
| Sample w | t/vol: | 30.67 (g/mL) | <u>G</u> | Lab File | ID: W | 11361.RR | |
| Level: | (low/med) | LOW | | Date Samp | /Recv: <u>0</u> | 8/30/2006 | 09/01/2006 |
| % Moistu | re: <u>8</u> | decanted: (Y | /n) <u>n</u> | Date Extra | acted: 0 | 9/11/2006 | i 1. 1. 1. |
| Concentr | ated Extract | Volume: <u>1000</u> (| uL) | Date Anal | yzed: <u>0</u> | 9/14/2006 | in and Arina |
| Injectio | n Volume: | 1.00 (uL) | | Dilution 1 | Factor: _ | 1.00 | |
| GPC Clea | nup: (Y/N) <u>N</u> | pH: | | | | | . • |
| | _ | · | | • | , | | |
| | CTA CLASS | COMPOUND | | CONCENTRATION | | | • |
| | CAS NO. | COMPOUND | | (ug/L or ug/l | Ng) <u>Us</u> | <u> </u> | Q |
| | 105-67-9 | 2.4-Dimethy | lphenol | . , | 35 | o lu | J |
| | | Dimethyl ph | | | 35 | | J |
| | E34 E2 1 | . 4 6 Dinitm | -2-methylphenol_ | | 170 | - 1 | |
| | 164 00 6 | 0 4 504-24 | | | 170 | 1 | 1 . |
| | 51-78-2 | 2,4-Dinitro | bueuor | | 1 | | 1 |
| | 121-14-2 | 2,4-Dinitro | pnenoi toluene toluene | | 35 | | |
| | | | | | 35 | | |
| | 117-84-0 | Di-n-octyl p | phthalate | | 35 | | J. |
| | | Fluoranthen | e | | eo | | |
| . • | 86-73-7 | Fluorene | · · | : | 2 | | |
| : • | 118-74-1 | Hexachlorob | enzene | | 35 | ט ס | J. |
| | 87-68-3 | Hexachlorob | utadiene | | 35 | o U | J |
| | 77-47-4 | Hexachloroc | yclopentadiene | | 35 | o U | J |
| | | Hexachloroet | | | 35 | o lu | I . |
| | | | 3-cd) pyrene | | ľ | 0 | |
| : | 78-59-1 | | | | 35 | | г |
| | | 2-Methylnapl | hthalene | | 35 | , 1 | |
| : | | 2-Methylpher | | | 35 | | |
| | 106-11-5 | 4-Methylpher | | | 35 | | |
| | | 4-rechylphe Naphthalene | | | 2 | 1 . | . 1 . |
| | | Naphurarene 2-Nitroanil: | | | 170 | | t t |
| | | | | | | | |
| | | 3-Nitroanili | | <i>*</i> | 170 | | |
| 8 | | 4-Nitroanili | | <u> </u> | 170 | | |
| | | Nitrobenzene | | | 350 | | _ ` |
| • | | 2-Nitropheno | | | . 350 | | |
| : | | 4-Nitropheno | | | 170 | | |
| | | N-nitrosodip | | | | • | |
| | | | i-n-propylamine | | 350 | | 1 . |
| | 87-86-5 | Pentachlorop | ohenol - | | 170 |) ប | |
| | 85-01-8 | Phenanthrene | 9 | | 7: |) J | |
| , | 108-95-2 | | | : | 350 | ว บั | |
| 1. | 129-00-0 | | | · · | 630 | | |
| | OF OF 4 | | lommhonol | | 05/ | | . 1 |

LABELLA ASSOCIATES LABELLA ASSOCIATES MEIHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

ANALYSIS DATA SHEET

Client No.

350

BS-9(2-3.2 & 4-4.6) Lab Name: STL Buffalo Contract: ____ Lab Code: RECNY Case No.: SAS No.: SDG No.: A083 Lab Sample ID: A6A08307 Matrix: (soil/water) SOIL Lab File ID: W11361.RR Sample wt/vol: 30.67 (g/mL) G Date Samp/Recv: 08/30/2006 09/01/2006 Level: (low/med) LOW Date Extracted: 09/11/2006 % Moisture: 8 decanted: (Y/N) N Date Analyzed: 09/14/2006 Concentrated Extract Volume: 1000 (uL) Injection Volume: 1.00(uL) Dilution Factor: ____1.00 GPC Cleanup: (Y/N) N pH: ____ CONCENTRATION UNITS: CAS NO. UG/KG 0 COMPOUND (ug/L or ug/Kg)

88-06-2----2,4,6-Trichlorophenol

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

BS-9(2-3.2 & 4-4.6)

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: SAS No.: SDG No.: A083

Matrix: (soil/water) SOIL Lab Sample ID: A6A08307

Sample wt/vol: 30.67 (g/mL) G Lab File ID: W11361.RR

Level: (low/med) <u>LOW</u> Date Samp/Recv: <u>08/30/2006</u> <u>09/01/2006</u>

% Moisture: 7.9 decanted: (Y/N) N Date Extracted: 09/11/2006

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/14/2006

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS:

Number TICs found: 7 (ug/L or ug/Kg) <u>UG/KG</u>

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|--------------------------------------|---|--|--|-------------------|
| 1. 5737-13-3 2. 3. 4. 5. | CYCLOPENIA (DEF) PHENANIHRENO UNKNOWN PAH UNKNOWN PAH UNKNOWN UNKNOWN UNKNOWN | 14.11 16.57 16.66 16.74 17.92 18.17 | 230 380 140 660 200 160 | JN J J J |
| 7. | UNKNOWN PAH | 18.55 | 150 | J |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| Lab Name: STL Buffalo Contract: | BS-9(6.0-6.9) | |
|---|-----------------------|---|
| Lab Code: RECNY Case No.: SAS No.: SDG No.: A083 | | |
| Matrix: (soil/water) SOIL Lab Sample ID: | <u>A6A08309</u> | |
| Sample wt/vol: 30.25 (g/mL) G Lab File ID: | W11363.RR | |
| Level: (low/med) LOW Date Samp/Recv: | 08/30/2006 09/01/2006 | |
| % Moisture: 8 decanted: (Y/N) N Date Extracted: | 09/11/2006 | : |
| Concentrated Extract Volume: 1000 (uL) Date Analyzed: | 09/14/2006 | |
| Injection Volume: 1.00(uL) Dilution Factor: | 1 00 · | |

GPC Cleanup: (Y/N) N pH:

| (| CNCENT | KAI. | LON. | OMTTS | : |
|---|--------|------|--------|-------|----|
| | (no/T. | or | 13CT/K | (a) | TT |

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|-----------|------------------------------|---------------------------------------|-------|----------|
| 83-32-9 | Acenaphthene | | 360 | บ |
| 208-96-8 | 1 comprising a care | | 360 | U |
| 98-86-2 | Acetophenone | | 360 | U |
| | Anthracene | | 360 | U |
| 1912-24-9 | | | 360 | U |
| 100-52-7 | Benzaldehyde | | 360 | U |
| | Benzo (a) anthracene | · . | 360 | U |
| 205-99-2 | Benzo (b) fluoranthenė | | 36 | J |
| 207-08-9 | Benzo(k) fluoranthene | | 360 | U |
| 191-24-2 | Benzo(qhi)perylene | | 22 | J |
| 50-32-8 | Benzo (a) pyrene | | 27 | J |
| 92-52-4 | Biphenyl | | 360 | U . |
| 111-91-1 | Bis(2-chloroethoxy) methane | | 360 | ט |
| | Bis(2-chloroethyl) ether | | 360 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 360 | U |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | | 360 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | ·. | 360 | ט |
| 85-68-7 | Butyl benzyl phthalate | | 360 | ט |
| 105-60-2 | Caprolactam | | 360 | ט ו |
| 106-47-8 | 4-Chloroaniline | | 360 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | | 360 | υ |
| 91-58-7 | 2-Chloronaphthalene | | 360 | U |
| 95-57-8 | 2-Chlorophenol | • | 360 | U. |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | 360 | U |
| 86-74-8 | Carbazole | | 360 | U |
| 218-01-9 | Chrysene | · . | 360 | U |
| 53-70-3 | -Dibenzo (a, h) anthracene | | 360 | ט |
| 132-64-9 | Dibenzofuran | | 360 | ט |
| 84-74-2 | -Di-n-butyl phthalate | | 360 | U |
| 91-94-1 | -3,3'-Dichlorobenzidine | | 1700 | ט |
| | -2,4-Dichlorophenol | · · · · · · · · · · · · · · · · · · · | 360 | U |
| | -Diethyl phthalate | dags again. | 360 | U |
| | | | | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| | 1 | ٠. | | BS-9(6.0-6. | 9) |
|----------------------------------|----------------|----------|----------------------|------------------|---------------|
| Lab Name: <u>STL Buffalo</u> | Contract: | | | | |
| Lab Code: RECNY Case No.: | _ SAS No.: | <u> </u> | SDG No.: <u>A083</u> | | |
| Matrix: (soil/water) <u>SOIL</u> | | | Lab Sample ID: | A6A08309 | |
| Sample wt/vol:30.25 (g/m | L) <u>G</u> | | Lab File ID: | <u>W11363.RR</u> | |
| Level: (low/med) <u>IOW</u> | | | Date Samp/Recv: | 08/30/2006 0 | 9/01/2006 |
| % Moisture: <u>8</u> decanted: | (Y/N) <u>N</u> | | Date Extracted: | 09/11/2006 | general Josef |
| Concentrated Extract Volume: 100 | <u>0</u> (맵) | ••• | Date Analyzed: | 09/14/2006 | |
| Injection Volume: 1.00 (uL) | | | Dilution Factor: | 1.00 | |
| GPC Cleanup: (Y/N) N pH: | | , | | | |

| | | CONCENTRATION (| | |
|----------|---------------------------------------|---|-----------------|-----|
| CAS NO. | COMPOUND | (ug/L or ug/Kg | g) <u>UG/KG</u> | Q |
| 105-67-9 | 2,4-Dimethylphenol | | 360 | υ. |
| 131-11-3 | Dimethyl phthalate | | 360 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | | 1700 | U |
| 51-28-5 | 2,4-Dinitrophenol | | 1700 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 360 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 360 | U |
| 117-84-0 | Di-n-octyl phthalate | | 360 | U |
| | Fluoranthene | · | 38 | J |
| | Fluorene | | 360 | U |
| | Hexachlorobenzene | | 360 | Ū |
| | Hexachlorobutadiene | | 360 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 360 | U |
| 67-72-1 | Hexachloroethane | | 360 | U |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | | 23 | J |
| 78-59-1 | Isophorone | | 360 | U |
| 91-57-6 | 2-Methylnaphthalene | · | 360 | U |
| 95-48-7 | 2-Methylphenol | | 360 | ט |
| 106-44-5 | 4-Methylphenol | | 360 | U |
| | Naphthalene | | 360 | U |
| | 2-Nitroaniline | | 1700 | U |
| 99-09-2 | 3-Nitroaniline | | 1700 | U |
| 100-01-6 | 4-Nitroaniline | | 1700 | U |
| | Nitrobenzene | | 360 | ָ ע |
| 88-75-5 | 2-Nitrophenol | | 360 | ប |
| | 4-Nitrophenol | | 1700 | U |
| 86-30-6 | N-nitrosodiphenylamine | | 360 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | | 360 | ប |
| 87-86-5 | Pentachlorophenol | | 1700 | U |
| 85-01-8 | Phenanthrene | | 360 | U |
| 108-95-2 | Phenol | | 360 | U |
| 129-00-0 | Pyrene | | 24 | J |
| | 2,4,5-Trichlorophenol | المان المستميد المستميد المستميد المستميد المستميد المستميد | 860 - , | U |
| | · · · · · · · · · · · · · · · · · · · | | | 1 |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| Lab Name: SIL Buffalo Contract: | BS-9 (0.0-0.9) |
|---|-------------------------|
| Lab Code: RECNY Case No.: SAS No.: SDG No.: A083 | <u> </u> |
| Matrix: (soil/water) <u>SOIL</u> Lab Sample ID: | A6A08309 |
| Sample wt/vol: 30.25 (g/mL) G Lab File ID: | W11363.RR |
| Level: (low/med) LOW Date Samp/Recv | : 08/30/2006 09/01/2006 |
| % Moisture:8 decanted: (Y/N) N Date Extracted | : 09/11/2006 |
| Concentrated Extract Volume: 1000 (uL) Date Analyzed: | 09/14/2006 |
| Injection Volume: 1.00(uL) Dilution Facto | r: <u>1.00</u> |
| GPC Cleanup: (Y/N) N pH: | |
| CONCENTRATION UNIT CAS NO. COMPOUND (ug/L or ug/Kg) | |
| 88-06-22,4,6-Trichlorophenol_ | 360 U |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

| BS-9 (6 | .0-6.9 |) | |
|---------|--------|----------|--|
| **** | | | |
| | | : | |

Lab Name: STL Buffalo Contract:

Lab Code: RECNY Case No.: SAS No.: SDG No.: A083

Matrix: (soil/water) SOIL A6A08309

Sample wt/vol: 30.25 (g/mL) G Lab File ID: W11363.RR

Level: (low/med) <u>LOW</u> Date Samp/Recv: <u>08/30/2006</u> <u>09/01/2006</u>

% Moisture: 8.1 decanted: (Y/N) N Date Extracted: 09/11/2006

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/14/2006

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) <u>UG/KG</u>

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---------|---------------|-------|------------|---|
| 1. | UNKNOWN | 15.27 | 310 | J |
| 2. | UNKNOWN | 17.08 | 410 | J |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| Lab Name: STL Buffalo Contract: | |
|---|--|
| Lab Code: RECNY Case No.: SAS No.: SDG No.: A083 | |
| Matrix: (soil/water) WATER Lab Sample ID: A6A08313 | |
| Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: X11540.RR | |
| Level: (low/med) <u>LOW</u> Date Samp/Recv: <u>08/29/2006</u> <u>09/01/2006</u> | |
| % Moisture: decanted: (Y/N) N Date Extracted: 09/05/2006 | |
| Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/08/2006 | |
| Injection Volume: 1.00 (uL) Dilution Factor: 1.00 | |
| GPC Cleanup: (Y/N) N pH: 5.0 | |

| | | | CONCENTRATION UNITS: | | | |
|-----------|------------------------------|--|----------------------|-----|--|--|
| CAS NO. | COMPOUND | (ug/L or ug/Kg |) <u>UG/L</u> : | Q | | |
| | Acenaphthene | | 10 | U | | |
| | Acenaphthylene | | 10 | U | | |
| | Acecobitetione | | 10 | ี บ | | |
| | Anthracene | | 10 | ע י | | |
| 1912-24-9 | | | 10 | U | | |
| | Benzaldehyde | | -50 | U | | |
| | Benzo (a) anthracene | | 10 | U. | | |
| | Benzo (b) fluoranthene | | 10 | U | | |
| | Benzo(k)fluoranthene | | 10 | U | | |
| | Benzo(ghi)perylene | | 10 | U | | |
| | Benzo(a)pyrene | | 10 | U | | |
| 92-52-4 | Biphenyl . | | 10 | υ . | | |
| | Bis(2-chloroethoxy) methane | | 10 | U | | |
| | Bis(2-chloroethyl) ether | | 10 | U | | |
| | 2,2'-Oxybis(1-Chloropropane) | | 10 | U | | |
| | Bis(2-ethylhexyl) phthalate | | 10 | U | | |
| 101-55-3 | 4-Bromophenyl phenyl ether | | 10 | U | | |
| | Butyl benzyl phthalate | | 10 | U | | |
| | 4-Chloroaniline | | 10 | U | | |
| 59-50-7 | 4-Chloro-3-methylphenol | | 10 | U | | |
| 91-58-7 | 2-Chloronaphthalene | | 10 | שׁ | | |
| | 2-Chlorophenol | | 10 | ָ ע | | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | 10 | U | | |
| | Caprolactam | | 10 | U. | | |
| 86-74-8 | | | 10 | υ· | | |
| 218-01-9 | Chrysene | | 10 | U | | |
| | Dibenzo (a,h) anthracene | | 10 | U | | |
| 132-64-9 | Dibenzofuran | | 10 | U | | |
| 84-74-2 | Di-n-butyl phthalate | | 10 | U | | |
| | 3,3'-Dichlorobenzidine | | 20 | ប | | |
| | 2,4-Dichlorophenol | | 10 | ប | | |
| 84-66-2 | Diethyl phthalate | AND THE RESERVE AND THE PERSON OF THE PERSON | 0.5 | J | | |
| <u>'</u> | | | | I | | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| | | FIELD BLANK |
|--|--|-----------------------|
| Lab Name: STL Buffalo Contract: | <u>at en esta esperante de la companya</u> | 11 |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) WATER | Lab Sample ID: | A6A08313 |
| Sample wt/vol: 1000.0 (g/mL) ML | Lab File ID: | X11540.RR |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 08/29/2006 09/01/2006 |
| % Moisture: decanted: (Y/N) N | Date Extracted: | 09/05/2006 |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: | 09/08/2006 |
| Injection Volume: 1.00 (uL) | Dilution Factor: | 1.00 |
| | · · · · · · · · · · · · · · · · · · · | |

| GPC Cleanup: | (Y/N) <u>N</u> | pH: <u>5.0</u> | | |
|--------------|----------------|----------------|--|--|
| | | | | |

| CAS NO. COMPOUND | | CONCENTRATION (ug/L or ug/k | | UG/L | Q |
|----------------------|-----------------|--------------------------------|----------|------|-----|
| 105-67-92,4-Dimethy | | | | 10 | U |
| 131-11-3Dimethyl ph | | | | 10 | U. |
| 534-52-14,6-Dinitro | -2-methylphenol | · | , | 50 | U - |
| 51-28-52,4-Dinitro | | | | 50 | U |
| 121-14-22,4-Dinitro | | | | 10 | U |
| 606-20-22,6-Dinitro | | | | 10 | U |
| 117-84-0Di-n-octyl p | ohthalate | | | 2 | BJ |
| 206-44-0Fluoranthene | | | | 10 | U - |
| 86-73-7Fluorene | : | | | 10 | U |
| 118-74-1Hexachlorobe | | | | 10 | U |
| 87-68-3Hexachlorob | | | | 10 | U |
| 77-47-4Hexachlorocy | clopentadiene | | | 45 | U |
| 67-72-1Hexachloroet | | | | 10 | U |
| 193-39-5Indeno(1,2,3 | -cd)pyrene | | | 10 | U |
| 78-59-1Isophorone_ | | | | 10 | U |
| 91-57-62-Methylnaph | | | | 10 | U . |
| 95-48-72-Methylpher | ol | | • | 10 | U |
| 106-44-54-Methylpher | ol | | | 10 | U |
| 91-20-3Naphthalene | | | | 10 | U |
| 88-74-42-Nitroanili | | | | 50 | U |
| 99-09-23-Nitroanili | | | | 50 | U |
| 100-01-64-Nitroanili | | | | 50 | U |
| 98-95-3Nitrobenzene | | | | 10 | U |
| 88-75-52-Nitropheno | 1 | | | 10 | U · |
| 100-02-74-Nitropheno | | | | 50 | υ |
| 86-30-6N-nitrosodip | henylamine | | • | 10 | ប |
| 621-64-7N-Nitroso-Di | -n-propylamine | | | 10, | U |
| 87-86-5Pentachlorop | | | • | 50 | U |
| 85-01-8Phenanthrene | | | 200 | 10 | U |
| 108-95-2Phenol | | | | 10 | U |
| 129-00-0Pyrene | | | | 10 | ប |
| 95-95-42,4,5-Trichl | orophenol | g | a signer | 10 - | υ |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| Lab Name: STL Buffalo Contract: | FIELD BLANK |
|--|--|
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> |
| Matrix: (soil/water) <u>WATER</u> | Lab Sample ID: A6A08313 |
| Sample wt/vol: 1000.0 (g/mL) ML | Lab File ID: X11540.RR |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: 08/29/2006 09/01/2006 |
| % Moisture: decanted: (Y/N) N | Date Extracted: 09/05/2006 |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: <u>09/08/2006</u> |
| Injection Volume: 1.00 (uL) | Dilution Factor: 1.00 |
| GPC Cleanup: (Y/N) N pH: 5.0 | |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q |
| 88-06-22,4,6-Trichlorophenol | 10 U |

IABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

| Lab Name: STL Buffalo Contract: | | | |
|--|------------------|--------------------|-------------|
| Lab Code: RECNY Case No.: SAS No.: | | | |
| Matrix: (soil/water) WATER | Lab Sample ID: | <u>A6A08313</u> | |
| Sample wt/vol: 1000.0 (g/mL) ML | Lab File ID: | X11540.RR | 25 |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 08/29/2006 09/01/2 | <u>:006</u> |
| % Moisture: decanted: (Y/N) N | Date Extracted: | 09/05/2006 | · . |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: | 09/08/2006 | |
| Injection Volume: 1.00 (uL) | Dilution Factor: | 1.00 | |
| GPC Cleanup: (Y/N) N pH: 5.0 | | | |

Number TICs found: __7

CONCENTRATION UNITS:

(ug/L or ug/Kg) <u>UG/L</u>

CAS NO. Compound Name RT Est. Conc. 1. 4192-77-2 2-PROPENOIC ACID, 3-PHENYL-, 10.59 JN 2. UNKNOWN 15.04 5 BJ 3. UNKNOWN BJ 15.07 18 UNKNOWN. 15.67 4 BJ 7 UNKNOWN BJ 15.78 6. UNKNOWN 16.32 13 BJ UNKNOWN 16.35

Client No.

| Lab Name: STL Buffalo Contract: | | BS-5 COMP 1 |
|---|---|-----------------------|
| we reme. | | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) SOIL | Lab Sample ID: | <u>A6A16906</u> |
| Sample wt/vol: 30.05 (g/mL) G | Lab File ID: | 5A05015.TX0 |
| % Moisture: 11 decanted: (Y/N) N | Date Samp/Recv: | 09/01/2006 09/06/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC | Date Extracted: | 09/12/2006 |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: | 09/13/2006 |
| Injection Volume: 1.00 (uL) | Dilution Factor: | 10.00 |
| GPC Cleanup: (Y/N) N pH: _ | Sulfur Cleanup: | (Y/N) <u>N</u> |
| | NCENIRATION UNITS: ug/L or ug/Kg) <u>UG/KG</u> | Q |
| 309-00-2Aldrin 319-84-6alpha-BHC 319-85-7beta-BHC | 19 19 24 | U U |
| 58-89-9gamma-BHC (Lindane) 319-86-8delta-BHC 57-74-9Chlordane | | U U U |
| 72-54-84,4'-DDD 72-55-94,4'-DDE | 19 19 | ָ ប |
| 50-29-34,4'-DDT 60-57-1Dieldrin | 35 19 | U |
| 959-98-8Endosulfan I 33213-65-9Endosulfan II | | U J |
| 1031-07-8Endosulfan Sulfate 72-20-8Endrin 7421-93-4Endrin aldehyde | 14 17 19 | n n |
| 7421-93-4Harin aldenyde 76-44-8Heptachlor 1024-57-3Heptachlor epoxide | 19 19 19 | U U |
| 72-43-5Methoxychlor | 20 370 | UU |
| | | 1 ⁻ 1 |

Client No.

| Lab Name: SIL Buffalo Contract: Lab Code: RECNY Case No.: SAS No.: SDG Natrix: (soil/water) SOIL Lab | No.: A083 | | |
|--|--|------------------|----------------------|
| | No.: A083 | | |
| Matrix (soil/water) SOTI. | | ٠. | |
| MOLLI, MACCEL DOTH | Sample ID: | <u> A6A16907</u> | _ |
| Sample wt/vol: 30.05 (g/mL) G Lab | File ID: | 5A05013. | TXO |
| % Moisture: 18 decanted: (Y/N) N Date | e Samp/Recv: | 09/01/20 | <u>06 09/06/2006</u> |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC Date | e Extracted: | 09/12/20 | <u>06</u> |
| Concentrated Extract Volume: 10000 (uL) Date | e Analyzed: | 09/13/20 | 06 |
| Injection Volume:1.00(uL) Dilu | ution Factor: | 1.00 | |
| SPC Cleanup: (Y/N) N pH: _ Sulf | fur Cleanup: | (Y/N) <u>N</u> | |
| CONCENTRATION (CAS NO. COMPOUND (ug/L or ug/Kg | | Q | |
| 309-00-2Aldrin 319-84-6alpha-EHC 319-85-7beta-EHC 58-89-9gamma-EHC (Lindane) 319-86-8delta-EHC 57-74-9Chlordane 72-54-84,4'-DDD 72-55-94,4'-DDE 50-29-34,4'-DDT 60-57-1Dieldrin 959-98-8Endosulfan I 33213-65-9Endosulfan II 1031-07-8Endosulfan Sulfate 72-20-8Endrin 7421-93-4Endrin aldehyde 76-44-8Heptachlor 1024-57-3Heptachlor epoxide 72-43-5Methoxychlor 8001-35-2Toxaphene | 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 | ממממממממממממממממ | |

| Lab Name: STL Buffalo Contract: | | BS-5 COMP 2 |
|--|--|--|
| | | |
| Lab Code: RECNY Case No.: SAS No.: | SDG NO.: AU63 | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6A16907FD |
| Sample wt/vol: 30.15 (g/mL) G | Lab File ID: | 5A05014.TX0 |
| % Moisture: 18 decanted: (Y/N) N | Date Samp/Recv: | 09/01/2006 09/06/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): <u>SONC</u> | Date Extracted: | 09/12/2006 |
| Concentrated Extract Volume: <u>10000</u> (uL) | Date Analyzed: | 09/13/2006 |
| Injection Volume:1.00(uL) | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH:_ | Sulfur Cleanup: | (Y/N) <u>N</u> |
| | RATION UNITS: or ug/Kg) <u>UG/KG</u> | Q |
| 309-00-2Aldrin 319-84-6alpha-BHC 319-85-7beta-BHC 58-89-9gamma-BHC (Lindane) 319-86-8delta-BHC 57-74-9Chlordane 72-54-84,4'-DDD 72-55-94,4'-DDT 60-57-1Dieldrin 959-98-8Endosulfan I 33213-65-9Endosulfan II 1031-07-8Endosulfan Sulfate 72-20-8Endrin 7421-93-4 | 20 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 | ם שם שם שם שם שם שם שם שם שם שם שם שם שם |
| 8001-35-2Toxaphene | 40 | Ü |

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LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8081 - TCL PESTICIDES ANALYSIS DATA SHEET

Client No.

BS-7(1-1.5 & 2-2.8) Lab Name: STL Buffalo Contract: Lab Code: RECNY Case No.: ____ SAS No.: ___ SDG No.: A083 Matrix: (soil/water) SOIL A6A08306 Lab Sample ID: Sample wt/vol: 30.16 (g/mL) G Lab File ID: 5A-04203.TX0_ % Moisture: 13 decanted: (Y/N) N Date Samp/Recv: 08/30/2006 09/01/2006 Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 09/08/2006 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/11/2006 Injection Volume: 1.00 (uL) Dilution Factor: ____1.00 GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N CONCENIRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> Q 309-00-2----Aldrin 1.9 U 319-84-6----alpha-BHC U 1.9 319-85-7----beta-BHC 1.9 U 58-89-9-----qamma-BHC (Lindane) J 1.2 IJ 319-86-8-----delta-BHC 1.6 57-74-9-----Chlordane U 19 72-54-8----4,4'-DDD J 1.0 72-55-9-----4,4'-DDE IJ 1.9 50-29-3----4,4'-DDT 2.5 60-57-1-----Dieldrin 1.9 U 959-98-8-----Endosulfan I U 1.9 33213-65-9----Endosulfan II 0.95 J 1031-07-8----Endosulfan Sulfate 0.99 J 72-20-8-----Endrin U 1.9 7421-93-4----Endrin aldehyde U 1.9

76-44-8-----Heptachlor

8001-35-2----Toxaphene

72-43-5-----Methoxychlor

1024-57-3----Heptachlor epoxide

| Lab Name: STL Buffalo | Contract: | | BS-7(4-5. | 3 & 6-7.67 |
|--|-----------------|--|----------------|---------------------|
| Lab Code: RECNY Case No.: | | | | |
| | | • | | |
| Matrix: (soil/water) <u>SOIL</u> | | Lab Sample ID: | A6A08308 | - . |
| Sample wt/vol: 30.06 (g/mL) <u>G</u> | | Lab File ID: | 5A-04196. | IXO |
| % Moisture: 20 decanted: (Y/N) | N | Date Samp/Recv: | 08/30/200 | 6 <u>09/01/2006</u> |
| Extraction: (SepF/Cont/Sonc/Soxh): SOX | NC | Date Extracted: | 09/08/200 | <u>6</u> |
| Concentrated Extract Volume: 10000 (ul | L) | Date Analyzed: | 09/11/200 | <u>6</u> |
| Injection Volume: 1.00 (uL) | | Dilution Factor: | 1.00 | |
| GPC Cleanup: (Y/N) N pH: _ | | Sulfur Cleanup: | (Y/N) <u>N</u> | |
| CAS NO. COMPOUND | CONCEN (ug/I | FIRATION UNITS: .or ug/Kg) <u>UG/KG</u> | Q | |
| 309-00-2Aldrin 319-84-6alpha-BHC | | 2.1 | U | • |
| 319-84-6alpha-BHC | | 2.1 | ប | • |
| 319-85-7beta-BHC | | 2.1 | ן ט | |
| 58-89-9gamma-BHC (Lindane) | | 2.1 | ן טן י | |
| 1 | | 1 0 1 | ע | |
| 57-74-9Chlordane | | | ט | |
| 72-54-84,4'-DDD | | 2.1 | ש | |
| 72-55-94 4'-DDE | | 2.1 | ט ו | |
| 50-29-34,4'-DDT | | 2.1 | ט | |
| 60-57-1Dieldrin | | 2.1 | ט | |
| 959-98-8Endosulfan I | | 2.1 | ט | |
| 33213-65-9Endosulfan IT | | 2.1 | ט | |
| 1031-07-8Endosulfan Sulfate | | 1.1 | J | |
| 72-20-8Endrin | | 2.1 | ט | |
| 7421-93-4Endrin aldehyde | <u> </u> | 2.1 | ט | |
| 76-44-8Heptachlor | | 2.1 | Ū | |
| 1024-57-3Heptachlor epoxide | | | ี บ | |
| 72-43-5Methoxychlor | | 2.1 | שׁ | |
| 8001-35-2Toxaphene | | 41 | Ū | |
| | | | | |

Client No.

BS-9(2-3.2 & 4-4.6)

| Lab Name: SIL Buffalo Contract: | | 150 7 (2 3.2 | . u 1 1.0, |
|---|--|-------------------|------------|
| Contract. | | | - |
| Lab Code: RECNY Case No.: SAS No.: SDG | 3 No.: <u>A083</u> | | • |
| Matrix: (soil/water) SOIL | ab Sample ID: | <u>A6A08307</u> | |
| Sample wt/vol: 30.49 (g/mL) G | ab File ID: | 5A-04194.T | <u> </u> |
| % Moisture: 8 decanted: (Y/N) N Da | ate Samp/Recv: | 08/30/2006 | 09/01/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC Da | ate Extracted: | 09/08/2006 | 5 |
| · · · · · · · · · · · · · · · · · · · | ate Analyzed: | | |
| | llution Factor: | , | |
| | ılfur Cleanup: | • | |
| | (Kg) <u>UG/KG</u> | Q | |
| 309-00-2Aldrin 319-84-6alpha-BHC 319-85-7beta-BHC 58-89-9gamma-BHC (Lindane) 319-86-8delta-BHC 57-74-9Chlordane 72-54-84,4'-DDD 72-55-94,4'-DDE 50-29-34,4'-DDT 60-57-1Dieldrin 959-98-8Endosulfan I 33213-65-9Endosulfan Sulfate 72-20-8Endrin aldehyde 76-44-8Heptachlor 1024-57-3Heptachlor epoxide 72-43-5Methoxychlor 8001-35-2Toxaphene | 1.8 1.8 1.8 1.4 18 1.8 1.8 2.2 1.1 1.8 0.85 1.0 1.8 1.2 1.8 0.92 1.8 | ממקמקנמה מטמקמטטט | |

Client No.

BS-9(6.0-6.9) Lab Name: STL Buffalo Contract: Lab Code: RECNY Case No.: ____ SAS No.: ___ SDG No.: A083 Lab Sample ID: A6A08309 Matrix: (soil/water) SOIL Lab File ID: 5A-04195.TX0 Sample wt/vol: ___30.43 (g/mL) G Date Samp/Recv: 08/30/2006 09/01/2006 % Moisture: 8 decanted: (Y/N) N Date Extracted: 09/08/2006 Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Analyzed: 09/11/2006 Concentrated Extract Volume: 10000 (uL) Injection Volume: ____1.00(uL) Dilution Factor: 1.00 Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N pH: _ CONCENTRATION UNITS: Q CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> 1.8 U 309-00-2----Aldrin 319-84-6----alpha-BHC 1.8 U 319-85-7----beta-BHC 1.8 U 1.8 U 58-89-9----gamma-BHC (Lindane) U 319-86-8-----delta-BHC 1.8 U 18 57-74-9-----Chlordane U 72-54-8-----4,4'-DDD 1.8 U 72-55-9----4,4'-DDE 1.8 U 50-29-3-----4,4'-DDT 1.8 U 60-57-1-----Dieldrin 1.8 959-98-8-----Endosulfan I 1.8 U 33213-65-9----Endosulfan II 1.9 1031-07-8----Endosulfan Sulfate 1.8 1.8 U 72-20-8-----Endrin U 7421-93-4----Endrin aldehyde 1.8 76-44-8-----Heptachlor_ 1.8 IJ 1024-57-3----Heptachlor epoxide U 1.8

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72-43-5-----Methoxychlor

8001-35-2----Toxaphene

Client No.

| ale Name Corr. D. 655.3 | Caratana at | ÷ | FIEID BLANK |
|---|-------------|---|-----------------------|
| ab Name: <u>STL Buffalo</u> | Contract: | | |
| ab Code: RECNY Case No.: | SAS No.: | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) WATER | | Lab Sample ID: | A6A08313 |
| Sample wt/vol:950.00 (g/mL) ML | g | Lab File ID: | 5A-04119.TX0 |
| Moisture: decanted: (Y/N) | • | Date Samp/Recv: | 08/29/2006 09/01/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SE | | Date Extracted: | 09/05/2006 |
| Concentrated Extract Volume: _10000(u | | Date Analyzed: | 09/06/2006 |
| Injection Volume:1.00(uL) | | Dilution Factor: | 1.00 |
| SPC Cleanup: (Y/N) N pH: 5.00 | | Sulfur Cleanup: | (Y/N) <u>N</u> |
| CAS NO. COMPOUND | | TION UNITS: ug/Kg) <u>UG/L</u> | Q |
| 959-98-8Endosulfan I 33213-65-9Endosulfan II 1031-07-8Endosulfan Sulfate 72-20-8Endrin 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 76-44-8Heptachlor 1024-57-3Heptachlor epoxide 72-43-5Methoxychlor | | 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 | |

53494-70-5----Endrin ketone

Client No.

FIELD BLANK Lab Name: STL Buffalo Contract: SDG No.: A083 Lab Code: RECNY Case No.: ____ SAS No.: ____ A6A08313RE Matrix: (soil/water) WATER Lab Sample ID: Lab File ID: 5A-04178.TX0 Sample wt/vol: 950.00 (q/mL) ML Date Samp/Recv: 08/29/2006 09/01/2006 % Moisture: decanted: (Y/N) N 09/07/2006 Date Extracted: Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Analyzed: 09/09/2006 Concentrated Extract Volume: 10000 (uL) Dilution Factor: 1.00 Injection Volume: ____1.00(uL) Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N pH: 5.00 CONCENTRATION UNITS: Q (ug/L or ug/Kg) <u>UG/L</u> CAS NO. COMPOUND 0.053 U 309-00-2----Aldrin 0.053 lυ 319-84-6----alpha-BHC 0.053 U 319-85-7----beta-BHC 0.053 U 58-89-9-----gamma-BHC (Lindane) U 0.053 319-86-8----delta-BHC U 0.053 72-54-8-----4,4'-DDD 0.053 U 72-55-9----4,4'-DDE 50-29-3-----4,4'-DDT U 0.053 0.053 TT 60-57-1-----Dieldrin U 0.053 959-98-8-----Endosulfan I U 0.053 33213-65-9----Endosulfan II U 0.053 1031-07-8----Endosulfan Sulfate U 0.053 72-20-8-----Endrin U 0.053 7421-93-4----Endrin aldehyde 0.053 U 5103-71-9----alpha-Chlordane 5103-74-2----gamma-Chlordane 0.061 U 0.053 76-44-8-----Heptachlor U 0.053 1024-57-3----Heptachlor epoxide U 72-43-5-----Methoxychlor 0.053 U 8001-35-2----Toxaphene 1.0

0.053

53494-70-5----Endrin ketone

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METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

Client No.

BH-4(1.2-1.5&2-3.5)

| Lab Name: STL Buffalo Contrac | t: |
|--|--|
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> |
| Matrix: (soil/water) SOIL | Lab Sample ID: A6A08310 |
| Sample wt/vol:30.10 (g/mL) <u>G</u> | Lab File ID: 19A67177.TX0 |
| % Moisture: 8 decanted: (Y/N) N | Date Samp/Recv: 08/29/2006 09/01/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC | Date Extracted: 09/06/2006 |
| Concentrated Extract Volume: _10000(uL) | Date Analyzed: 09/07/2006 |
| Injection Volume:1.00 (uL) | Dilution Factor: 1.00 |
| GPC Cleanup: (Y/N) N pH: _ | Sulfur Cleanup: (Y/N) \underline{Y} |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 11096-82-5Aroclor 1260 | 18 U U 18 U U 18 U U 18 U U 18 U U 18 U U 18 U U 18 U U 18 U U 18 U U 18 U U U U |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

| | BH-5 |
|--|--|
| Lab Name: STL Buffalo Contrac | ct: |
| Lab Code: RECNY Case No.: SAS No. | SDG No.: <u>A083</u> |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: A6A08311 |
| Sample wt/vol: 30.44 (g/mL) G | Lab File ID: 19A67178.TX0 |
| % Moisture: 18 decanted: (Y/N) N | Date Samp/Recv: 08/29/2006 09/01/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC | Date Extracted: 09/06/2006 |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: 09/07/2006 |
| Injection Volume:1.00(uL) | Dilution Factor: 1.00 |
| GPC Cleanup: (Y/N) N pH:_ | Sulfur Cleanup: (Y/N) N |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 | 20 U U 20 |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

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|--|--|----------------------------|
| Lab Name: STL Buffalo Contrac | t: | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> | · · |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6A08312 |
| Sample wt/vol: <u>30.28</u> (g/mL) <u>G</u> | Lab File ID: | 19A67179.TX0 |
| % Moisture: 57 decanted: (Y/N) N | Date Samp/Recv: | 08/31/2006 09/01/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC | Date Extracted: | 09/06/2006 |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: | 09/07/2006 |
| Injection Volume: 1.00 (uL) | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: _ | Sulfur Cleanup: | (Y/N) <u>N</u> |
| CAS NO. COMPOUND | CONCENIRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> | Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 11096-82-5Aroclor 1260 | 38 38 38 38 38 38 38 38 38 | บ บ บ บ บ บ |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

| | | BS-5 COMP 1 |
|--|--|-----------------------|
| Lab Name: STL Buffalo Contrac | t: | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> | ÷ |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6A16906 |
| Sample wt/vol:30.95 (g/mL) <u>G</u> | Lab File ID: | 19A68140.TX0 |
| % Moisture: <u>11</u> decanted: (Y/N) <u>N</u> | Date Samp/Recv: | 09/01/2006 09/06/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC | Date Extracted: | 09/11/2006 |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: | 09/12/2006 |
| Injection Volume:1.00(uL) | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: _ | Sulfur Cleanup: | (Y/N) <u>Y</u> |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> | Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 | 18 18 18 18 18 18 | บ บ บ บ |
| 11097-69-1Aroclor 1254 11096-82-5Aroclor 1260 | 18 18 | U U |

IABELIA ASSOCIATES IABELIA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYIS ANALYSIS DATA SHEET

| | BS-5 COMP 2 | ² |
|--|---|--------------|
| Lab Name: STL Buffalo Contr | ract: | |
| Lab Code: RECNY Case No.: SAS No | o.: SDG No.: A083 | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: <u>A6A16907</u> | |
| Sample wt/vol: 30.31 (g/mL) G | Lab File ID: <u>19A68143.TX</u> | <u> </u> |
| % Moisture: 18 decanted: (Y/N) N | Date Samp/Recv: 09/01/2006 | 09/06/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC | Date Extracted: <u>09/11/2006</u> | |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: 09/12/2006 | |
| Injection Volume: 1.00 (uL) | Dilution Factor: 1.00 | • |
| GPC Cleanup: (Y/N) N pH: _ | Sulfur Cleanup: (Y/N) Y | |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> Q | |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 | 20 U U U U U U U U U U U U U U U U U U U | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

| • | BS-5 COMP 2 |
|--|---|
| Lab Name: <u>SIL Buffalo</u> Contrac | t: |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> |
| Matrix: (soil/water) SOIL | Lab Sample ID: A6A16907FD |
| Sample wt/vol:30.86 (g/mL) <u>G</u> | Lab File ID: <u>19A68146.TX0</u> |
| % Moisture: 18 decanted: (Y/N) N | Date Samp/Recv: 09/01/2006 09/06/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC | Date Extracted: <u>09/11/2006</u> |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: 09/12/2006 |
| Injection Volume:1.00(uL) | Dilution Factor:1.00 |
| GPC Cleanup: (Y/N) N pH: _ | Sulfur Cleanup: (Y/N) \underline{Y} |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 | 20 U 20 U 20 U 20 U 20 U |
| 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 | 20 U 20 U |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

Client No.

BS-7(1-1.5 & 2-2.8)

| Lab Name: STL Buffalo Contract | | |
|--|--|----------------------------|
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> | |
| Matrix: (soil/water) SOIL | Lab Sample ID: | A6A08306 |
| Sample wt/vol: 30.21 (g/mL) G | Lab File ID: | 19A67171.TX0_ |
| % Moisture: 13 decanted: (Y/N) N | Date Samp/Recv: | 08/30/2006 09/01/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC | Date Extracted: | 09/06/2006 |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: | 09/07/2006 |
| Injection Volume: 1.00(uL) | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: _ | Sulfur Cleanup: | (Y/N) <u>N</u> |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> | Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 11096-82-5Aroclor 1260 | 19 19 19 19 19 19 19 | ប ប ប ប ប ប |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

Client No.

BS-7(4-5.5 & 6-7.6) Lab Name: STL Buffalo Contract: _ Case No.: _____ SAS No.: ____ SDG No.: A083 Lab Code: RECNY A6A08308 Lab Sample ID: Matrix: (soil/water) SOIL Lab File ID: 19A67173.TX0 Sample wt/vol: 30.05 (q/mL) <u>G</u> 08/30/2006 09/01/2006 Date Samp/Recv: % Moisture: 20 decanted: (Y/N) N Date Extracted: 09/06/2006 Extraction: (SepF/Cont/Sonc/Soxh): SONC 09/07/2006 Date Analyzed: Concentrated Extract Volume: 10000 (uL) Dilution Factor: 1.00 Injection Volume: ____1.00(uL) Sulfur Cleanup: (Y/N) Y GPC Cleanup: (Y/N) N pH: _ CONCENTRATION UNITS: 0 (ug/L or ug/Kg) <u>UG/KG</u> CAS NO. COMPOUND U 21 12674-11-2---Aroclor 1016 U 21 11104-28-2----Aroclor 1221 U 21 11141-16-5----Aroclor 1232 U 21 53469-21-9---Aroclor 1242 21 U 12672-29-6----Aroclor 1248

11097-69-1----Aroclor 1254

11096-82-5----Aroclor 1260

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LABELLA ASSOCIATES. LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

Client No.

BS-9(2-3.2 & 4-4.6)

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|--|--|-----------------------|-----------------|
| Lab Name: STL Buffalo Contr | ract: | | |
| Lab Code: RECNY Case No.: SAS No | o.: SDG No.: <u>A083</u> | | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6A08307 | |
| Sample wt/vol:30.27 (g/mL) <u>G</u> | Lab File ID: | 19A67172.TX0 | <u>-</u> : |
| % Moisture: 8 decanted: (Y/N) N | Date Samp/Recv: | 08/30/2006 09/ | <u>/01/2006</u> |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC | Date Extracted: | 09/06/2006 | " |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: | 09/07/2006 | |
| Injection Volume:1.00(uL) | Dilution Factor: | 1.00 | |
| GPC Cleanup: (Y/N) N pH: _ | Sulfur Cleanup: | (Y/N) <u>Y</u> | • |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> | Q | |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 11096-82-5Aroclor 1260 | 18 18 18 18 18 18 18 18 | บ บ บ บ บ | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

| | | | | BS-9(6.0- | -6.9) |
|--|-------------|----|--|------------------|------------|
| Lab Name: <u>STL Buffalo</u> | Contrac | t: | | <u> </u> | |
| Lab Code: RECNY Case No.: | SAS No.: | | SDG No.: <u>A083</u> | | • |
| Matrix: (soil/water) <u>SOIL</u> | | | Lab Sample ID: | <u>A6A08309</u> | |
| Sample wt/vol: 30.03 (g/mL) | 3 | | Lab File ID: | 19A67176. | TX0 |
| % Moisture: 8 decanted: (Y/M | 1) <u>N</u> | | Date Samp/Recv: | 08/30/200 | 09/01/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): § | SONC | | Date Extracted: | 09/06/200 | <u>06</u> |
| Concentrated Extract Volume: 10000 | (uL) | | Date Analyzed: | 09/07/200 | <u>)6</u> |
| Injection Volume:1.00(uL) | | | Dilution Factor: | 1.00 | |
| GPC Cleanup: (Y/N) N pH:_ | | • | Sulfur Cleanup: | (Y/N) · <u>Y</u> | |
| CAS NO. COMPOUND | | | rion units: ug/Kg) <u>ug/KG</u> | Q | · |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 | | | 18 18 18 18 18 18 18 | ם ח ח ח | |
| 11097-69-1-3ALOCTOL 1234 | | | 18 | TT | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

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| Lab Name: STL Buffalo Contract | : |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: <u>A083</u> |
| Matrix: (soil/water) <u>WATER</u> | Lab Sample ID: A6A08313 |
| Sample wt/vol:950.00 (g/mL) ML | Lab File ID: 19A67161.TX0 |
| % Moisture: decanted: (Y/N) N | Date Samp/Recv: 08/29/2006 09/01/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SEPF | Date Extracted: 09/05/2006 |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: 09/07/2006 |
| Injection Volume:1.00(uL) | Dilution Factor:1.00 |
| GPC Cleanup: (Y/N) N pH: 5.00 | Sulfur Cleanup: (Y/N) N |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 11096-82-5Aroclor 1260 | 0.53 U 0.53 U 0.53 U 0.53 U 0.53 U 0.53 U 0.53 U |

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

NY06-133

Lab Code:

STLBLFO

Case No.:

SAS No.:

SDG NO.:

A083

Matrix (soil/water):

SOIL

Lab Sample ID:

AD652031

BH-4(1.2-1.5&2-3.5)

Level (low/med):

LOW

Date Received:

9/1/2006

% Solids: 92

Concentration Units (ug/L or mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Ω | М |
|-----------|----------|---------------|----|--------------|----|
| 7440-38-2 | Arsenic | 3.4 | - | | P |
| 7440-39-3 | Barium | 39.5 | Ī | Ī | P |
| 7440-43-9 | Cadmium | 0.21 | ט | Ī | P |
| 7440-47-3 | Chromium | 7.0 | Ť | E | P |
| 7439-92-1 | Lead | 8.4 | Ī | E | P |
| 7782-49-2 | Selenium | 4.1 | Ū | | P |
| 7440-22-4 | Silver | 0.52 | Ū | İ | P |
| 7439-97-6 | Mercury | 0.019 | Įυ | Ī | CV |

| Color Before: | BROWN | Clarity Before: | CLOUDY | Texture: | TOPSOIL |
|---------------|--------|-----------------|---------|------------|---------|
| Color After: | YELLOW | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | | | | | |
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INORGANIC ANALYSIS DATA SHEET

| SAMPLE | NO. | |
|--------|-----|--|
| | | |
| BH-5 | • | |

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|---------|-------|--|
| COMME | . L . | |

NY06-133

Lab Code:

STLBLFO

Case No.:

SAS No.:

SDG NO.:

A083

Matrix (soil/water):

SOIL

Lab Sample ID:

AD652032

Level (low/med):

LOW

Date Received:

9/1/2006

% Solids: 82

Concentration Units (ug/L or mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | м |
|-----------|----------|---------------|----|-----|----|
| 7440-38-2 | Arsenic | 5.3 | + | + | P |
| 7440-39-3 | Barium | 558 | Ī | Ī | P |
| 7440-43-9 | Cadmium | 0.25 | שן | Ι . | P |
| 7440-47-3 | Chromium | 2.2 | T | E | P |
| 7439-92-1 | Lead | 10.7 | T | E | P |
| 7782-49-2 | Selenium | 5.0 | שן | | P |
| 7440-22-4 | Silver | 0.63 | ט | 1 | P |
| 7439-97-6 | Mercury | 0.073 | | 1 | CV |

| Color Before: | VARIED | Clarity Before: | CLOUDY | Texture: | GRAVEL |
|---------------|--------|-----------------|---------|------------|--------|
| Color After: | AETTOM | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | · | | - | | |
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| SAMPLE | NO. | |
|--------|-----|--|
| | | |
| BH-6 | | |

| Contract: | NY06-13 |
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| CONTEX OF CE | MICO-TO |

Lab Code: STLBLFO

Case No.:

SAS No.:

SDG NO .:

A083

Matrix (soil/water):

SOIL

Lab Sample ID:

AD652033

AU83

Level (low/med):

LOW

' Date Received:

9/1/2006

% Solids: 43

Concentration Units (ug/L or mg/kg dry weight):

| CAS No. | Analyte | Concentration | С | Q | М |
|-----------|----------|---------------|---------------|---|----|
| 7440-38-2 | Arsenic | 6.1 | -[| 1 | P |
| 7440-39-3 | Barium | 46.2 | T | | P |
| 7440-43-9 | Cadmium | 0.46 | ט | | P |
| 7440-47-3 | Chromium | 10.9 | 1 | E | P |
| 7439-92-1 | Lead | 9.3 | T | E | P |
| 7782-49-2 | Selenium | 9.2 | שן | | P |
| 7440-22-4 | Silver | 1.1 | U | | P |
| 7439-97-6 | Mercury | 0.041 | U | 1 | CV |

| Color Before: | BROWN | Clarity Before: | CLOUDY | Texture: | TOPSOIL |
|---------------|--------|-----------------|---------|------------|---------|
| Color After: | AETTOM | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | | | | | |
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

| BS-1 | (2-3.5) | |
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| • | | |

Contract: NY

NY06-133

Lab Code: STLBLFO

BLFO Case No.:

SAS No.:

SDG NO.:

E80A

Matrix (soil/water):

SOIL

Lab Sample ID:

AD652037

Level (low/med):

LOW

Date Received:

9/6/2006

% Solids: 85

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Concentration Units (ug/L or mg/kg dry weight):

| | <u>.</u> | | | | |
|-----------|-----------|---------------|---|---|----|
| CAS No. | Analyte | Concentration | C | Ω | М |
| 7440-36-0 | Antimony | 16.9 | ਹ | | P |
| 7440-38-2 | Arsenic | 14.6 | | 1 | P |
| 7440-41-7 | Beryllium | 1.6 | | E | P |
| 7440-43-9 | Cadmium | 0.55 | | | P |
| 7440-47-3 | Chromium | 16.0 | | E | P |
| 7440-50-8 | Copper | 20.5 | | | P |
| 7439-92-1 | Lead | 82.2 | Ī | E | P |
| 7440-02-0 | Nickel | 9.6 | | E | P |
| 7782-49-2 | Selenium | 4.5 | מ | 1 | P |
| 7440-22-4 | Silver | 0.56 | U |] | P |
| 7439-97-6 | Mercury | 0.047 | | | CV |
| 7440-28-0 | Thallium | 6.7 | U | | P |
| 7440-66-6 | Zinc | 845 | | l | P |

| Color Before: | BROWN | Clarity Before: | CLOUDY | Texture: | TOPSOIL |
|---------------|--------|-----------------|---------|------------|---------|
| Color After: | YELLOW | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | | | | | |
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INORGANIC ANALYSIS DATA SHEET

Date Received:

91.3

SAMPLE NO.

9/6/2006

| Contract: | NY06-133 | | | | BS-10 (.6-1.3) | | |
|-------------|-----------|-----------|----------------|----------|----------------|--|--|
| Lab Code: | STLBLFO | Case No.: | SAS No.: | SDG NO.: | A083 | | |
| Matrix (soi | 1/water): | SOIL | Lab Sample ID: | AD652039 | | | |

% Solids: 88

Level (low/med):

LOW

7440-66-6

Zinc

Concentration Units (ug/L or mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Ω | М |
|-----------|-----------|---------------|----------|----------|----|
| 7440-36-0 | Antimony | 16.0 | Ū | | P |
| 7440-38-2 | Arsenic | 4.3 | Ī | | P |
| 7440-41-7 | Beryllium | 4.5 | T | E | P |
| 7440-43-9 | Cadmium | 0.42 | T | 1 | P |
| 7440-47-3 | Chromium | 6.5 | 1 | E | P |
| 7440-50-8 | Copper | 10.6 | | <u> </u> | P |
| 7439-92-1 | Lead | 47.7 | | E | P |
| 7440-02-0 | Nickel | 6.4 | Ť | E | P |
| 7782-49-2 | Selenium | 4.3 | U | | P |
| 7440-22-4 | Silver | 0.68 | Ī | | P |
| 7439-97-6 | Mercury | 0.066 | Ī | | CV |
| 7440-28-0 | Thallium | 6.4 | <u>ט</u> | | P |

| Color Before: | VARIED | Clarity Before: | CLOUDY | Texture: | GRAVEL |
|---------------|--------|-----------------|---------|------------|--------|
| Color After: | YELLOW | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | • | | | | |
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

Contract:

NY06-133

Lab Code:

STLBLFO

Case No.:

SAS No.:

SDG NO.:

A083

Matrix (soil/water):

SOIL

Lab Sample ID:

AD652027

Level (low/med):

LOW

Date Received:

9/1/2006

% Solids: 90

Concentration Units (ug/L or mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | М |
|-----------|-----------|---------------|----|---|----|
| 7440-36-0 | Antimony | 16.3 | U | | P |
| 7440-38-2 | Arsenic | 3.3 | 1 | | P |
| 7440-41-7 | Beryllium | 0.60 | Ī | E | P |
| 7440-43-9 | Cadmium | 0.25 | Ī | | P |
| 7440-47-3 | Chromium | 7.4 | T | E | P |
| 7440-50-8 | Copper | 12.7 | T | 1 | P |
| 7439-92-1 | Lead | 27.9 | 1 | Ē | P |
| 7440-02-0 | Nickel | 8.5 | | E | P |
| 7782-49-2 | Selenium | 4.4 | ט | | P |
| 7440-22-4 | Silver | 0.55 | ਹ | j | P |
| 7439-97-6 | Mercury | 0.062 | Ī | 1 | cv |
| 7440-28-0 | Thallium | 6.5 | שן | 1 | P |
| 7440-66-6 | Zinc | 58.6 | Ī | l | P |

| Color Before: | BROWN | Clarity Before: | CLOUDY | Texture: | TOPSOIL |
|---------------|--------|-----------------|---------|------------|---------|
| Color After: | YELLOW | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | | | | | |
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

| Contract: | NY06-133 | | | BS-12(0.4-0.6) |
|-----------|----------|-----------|----------|----------------|
| Lab Code: | STLBLFO | Case No.: | SAS No.: | SDG NO.: A083 |

Matrix (soil/water): SOIL Lab Sample ID: AD652028

Level (low/med): LOW Date Received: 9/1/2006

% Solids: 95

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | С | Q | М |
|-----------|-----------|---------------|---|----------|----|
| 7440-36-0 | Antimony | 14.7 | ਹ | | P |
| 7440-38-2 | Arsenic | 5.1 | Ī | | P |
| 7440-41-7 | Beryllium | 0.70 | | E | P |
| 7440-43-9 | Cadmium | 0.32 | T | Ì | P |
| 7440-47-3 | Chromium | 9.0 | I | E | P |
| 7440-50-8 | Copper | 16.1 | | 1 | P |
| 7439-92-1 | Lead | 38.1 | T | E | P |
| 7440-02-0 | Nickel | 10.0 | | E | P |
| 7782-49-2 | Selenium | 3.9 | U | | P |
| 7440-22-4 | Silver | 0.53 | U | 1 | P |
| 7439-97-6 | Mercury | 0.063 | | l | CV |
| 7440-28-0 | Thallium | 5.9 | U | 1 . | P |
| 7440-66-6 | Zinc | 160 | Ī | <u> </u> | P |

| Color Before: | BROWN | Clarity Before: | CLOUDY | Texture: | GRAVEL |
|---------------|--------|-----------------|---------|------------|--------|
| Color After: | YELLOW | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | | | | | |
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

| BS-2 | (2-2.4) | * | |
|------|---------|---|--|
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Contract:

NY06-133

Lab Code:

STLBLFO

Case No.:

SAS No.:

SDG NO.:

A083

Matrix (soil/water):

SOIL

Lab Sample ID:

AD652038

Level (low/med):

LOW

Date Received:

9/6/2006

% Solids: 88

Concentration Units (ug/L or mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | М |
|-----------|-----------|---------------|----|--------------|----|
| 7440-36-0 | Antimony | 16.3 | U | | P |
| 7440-38-2 | Arsenic | 4.7 | | Ī | P |
| 7440-41-7 | Beryllium | 2.9 | 1 | E | P |
| 7440-43-9 | Cadmium | 0.22 | טן | | P |
| 7440-47-3 | Chromium | 5.4 | T | E | P |
| 7440-50-8 | Copper | 6.3 | | 1 | P |
| 7439-92-1 | Lead | 14.7 | 1 | E | P |
| 7440-02-0 | Nickel | 3.6 | T | E | P |
| 7782-49-2 | Selenium | 4.3 | U | | P |
| 7440-22-4 | Silver | 0.57 | U |] | P |
| 7439-97-6 | Mercury | 0.063 | Τ | | CV |
| 7440-28-0 | Thallium | 6.5 | U | 1 | P |
| 7440-66-6 | Zinc | 78.7 | Ī | | P |

| Color After: YELLOW Clarity After: CLDY/FI Artifacts: | Color Before: | VARIED | Clarity Before: | CLOUDY | Texture: | GRAVEL |
|---|---------------|--------|-----------------|---------|------------|--------|
| | Color After: | YELLOW | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | Comments: | | | | | |
| | | | | | | |

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

| BS-3(1.1- | 1.7) | |
|-----------|------|--|
| | | |

Contract:

NY06-133

Lab Code:

STLBLFO

Case No.:

SAS No.:

SDG NO .:

A083

Matrix (soil/water):

SOIL

Lab Sample ID:

AD652024

Level (low/med):

LOW

Date Received:

9/1/2006

% Solids: 85

Concentration Units (ug/L or mg/kg dry weight):

| CAS No. | Analyte | Concentration | С | Ω | М |
|-----------|-----------|---------------|----|---|----|
| 7440-36-0 | Antimony | 16.9 | U | 1 | P |
| 7440-38-2 | Arsenic | 4.0 | Ī | 1 | P |
| 7440-41-7 | Beryllium | 0.34 | T | E | P |
| 7440-43-9 | Cadmium | 0.25 | 1 | Ī | P. |
| 7440-47-3 | Chromium | 7.8 | | E | P |
| 7440-50-8 | Copper | 26.1 | | Ī | P |
| 7439-92-1 | Lead | 15.5 | I | E | P |
| 7440-02-0 | Nickel | 7.9 | T | E | P |
| 7782-49-2 | Selenium | 4.5 | U | Ī | P |
| 7440-22-4 | Silver | 0.56 | שן | I | P |
| 7439-97-6 | Mercury | 0.058 | 1 | | CV |
| 7440-28-0 | Thallium | 6.8 | שן | | P |
| 7440-66-6 | Zinc | 51.1 | 1 | | P |

| Color Before | BROWN | Clarity Before: | CLOUDY | Texture: | TOPSOIL | |
|--------------|--------|-----------------|---------|------------|---------|--|
| Color After: | YELLOW | Clarity After: | CLDY/FI | Artifacts: | | |
| Comments: | | | | | | |
| | | | | | | |

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

BS-4(1.0-1.5)

NY06-133

Lab Code:

STLBLFO

Case No.:

SAS No.:

SDG NO.:

A083

Matrix (soil/water):

SOIL

Lab Sample ID:

AD652025

Level (low/med):

LOW

Date Received:

9/1/2006

% Solids: 85

Concentration Units (ug/L or mg/kg dry weight):

| CAS No. | Analyte | Concentration | С | Q | м |
|-----------|-----------|---------------|----|---|----|
| 7440-36-0 | Antimony | 17.7 | U | | P |
| 7440-38-2 | Arsenic | 5.1 | T | 1 | P |
| 7440-41-7 | Beryllium | 5.0 | T | E | P |
| 7440-43-9 | Cadmium | 0.24 | U | 1 | P |
| 7440-47-3 | Chromium | 2.3 | T | E | P |
| 7440-50-8 | Copper | 4.2 | T | 1 | P |
| 7439-92-1 | Lead | 5.5 | Ī | E | P |
| 7440-02-0 | Nickel | 2.9 | 1 | E | P |
| 7782-49-2 | Selenium | 4.7 | ט | | P |
| 7440-22-4 | Silver | 0.57 | שן |] | P |
| 7439-97-6 | Mercury | 0.020 | ע | l | cv |
| 7440-28-0 | Thallium | 7.1 | U | | P |
| 7440-66-6 | Zinc | 16.9 | Ī | [| P |

| Color Befo | re: | VARIED | Clarity Before: | CLOUDY | Texture: | GRAVEL |
|------------|-----|--------|-----------------|---------|------------|--------|
| Color Afte | er: | YELLOW | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | | | | | | |
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

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|-----------|----------|-----------|--|--------------|
| | | | | BS-5 COMP 1 |
| Contract: | NY06-133 | • | | |
| | | | ······································ | |
| Lab Code: | STLBLFO | Case No.: | SAS No . | CDC ** 0.000 |

Lab Code: STLBLFO Case No.: SAS No.: SDG NO.: A083

Matrix (soil/water): SOIL Lab Sample ID: AD652567

Matrix (soil/water): SOIL Lab Sample ID: AD652567

Level (low/med): LOW Date Received: 9/6/2006

% Solids: 89

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No. | Analyte | Concentration | C | Q | М |
|-----------|-----------|---------------|---|------|----|
| 7429-90-5 | Aluminum | 10400 | | E* | P |
| 7440-36-0 | Antimony | 14.7 | ט | N | P |
| 7440-38-2 | Arsenic | 9.0 | Π | N | P |
| 7440-39-3 | Barium | 103 | T | NE * | P |
| 7440-41-7 | Beryllium | 2.1 | Π | E | P |
| 7440-43-9 | Cadmium | 0.46 | Ī | И | P |
| 7440-70-2 | Calcium | 125000 | Ī | | P |
| 7440-47-3 | Chromium | 16.0 | | NE* | P |
| 7440-48-4 | Cobalt | 4.2 | Ī | E | P |
| 7440-50-8 | Copper | 11.8 | Ī | E | P |
| 7439-89-6 | Iron | 70600 | Ī | E* | P |
| 7439-92-1 | Lead | 16.0 | Ī | E | P |
| 7439-95-4 | Magnesium | 9560 | Ī | E* | P |
| 7439-96-5 | Manganese | 1300 | Ī | E | P |
| 7440-02-0 | Nickel | 8.6 | Ī | NE* | P |
| 7440-09-7 | Potassium | 940 | Π | | P |
| 7782-49-2 | Selenium | 3.9 | U | N* | P |
| 7440-22-4 | Silver | 0.49 | ש | | P |
| 7439-97-6 | Mercury | 0.019 | U | | CV |
| 7440-23-5 | Sodium | 354 | | N* | P |
| 7440-28-0 | Thallium | 5.9 | ט | N | P |
| 7440-62-2 | Vanadium | 16.7 | | E | P |
| 7440-66-6 | Zinc | 216 | | E* | P |

| Color Before: | BROWN | Clarity Before: | CLOUDY | Texture: | TOPSOIL |
|---------------|--------|-----------------|---------|------------|---------|
| Color After: | YELLOW | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | | | | · | |
| | | | | | |

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

| BS-6 | (2-2.7) | |
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| | | |

Contract:

NY06-133

Lab Code:

STLBLFO

Case No.:

SAS No.:

SDG NO .:

E80A

Matrix (soil/water):

SOIL

Lab Sample ID:

AD652040

Level (low/med):

LOW

Date Received:

9/6/2006

% Solids: 92

Concentration Units (ug/L or mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Q | м |
|-----------|-----------|---------------|----|--------------|----|
| 7440-36-0 | Antimony | 16.7 | U | | P |
| 7440-38-2 | Arsenic | 6.5 | 1 | | P |
| 7440-41-7 | Beryllium | 0.74 | Ī | ļΕ | P |
| 7440-43-9 | Cadmium | 0.31 | T | 1 | P |
| 7440-47-3 | Chromium | 9.8 | T | E | P |
| 7440-50-8 | Copper | 25.1 | Ī | | P |
| 7439-92-1 | Lead | 74.6 | Ī | E | P |
| 7440-02-0 | Nickel | 29.2 | | E | P |
| 7782-49-2 | Selenium | 4.4 | U | l . | P |
| 7440-22-4 | Silver | 0.55 | U | I | P |
| 7439-97-6 | Mercury | 0.074 | 1 | | CV |
| 7440-28-0 | Thallium | 6.7 | טן | | P |
| 7440-66-6 | Zinc | 204 | | | P |

| Color Before: | BROWN | Clarity Before: | CLOUDY | Texture: | TOPSOIL |
|---------------|--------|-----------------|---------|------------|---------|
| Color After: | AETTOM | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | | | | | |
| · | | ···· | | | |

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

| Contract: | NYO | 6-133 |
|-------------|-----|-------|
| TOTAL CACCA | NIU | 0-133 |

Lab Code: STLB

STLBLFO

Case No.:

SAS No.:

SDG NO.:

. . . .

Matrix (soil/water):

SOIL

Lab Sample ID:

AD652029

E80A

BS-7(1-1.5 & 2-2.8)

Level (low/med):

LOW

Date Received:

9/1/2006

% Solids: 87

Concentration Units (ug/L or mg/kg dry weight):

| CAS No. | Analyte | Concentration | C | Ω | М |
|-----------|-----------|---------------|----------|--|----------------|
| 7429-90-5 | Aluminum | 6900 | + | | P |
| 7440-36-0 | Antimony | 16.7 | <u>י</u> | | P |
| 7440-38-2 | Arsenic | 13.7 | İ | İ | P |
| 7440-39-3 | Barium | 190 | Ť | İ | P |
| 7440-41-7 | Beryllium | 2.1 | Ť | E | P |
| 7440-43-9 | Cadmium | 0.62 | Ì | j | ј _Р |
| 7440-70-2 | Calcium | 34200 | Ī | | P |
| 7440-47-3 | Chromium | 28.9 | Ī | E | P |
| 7440-48-4 | Cobalt | 8.5 | Ì | | P |
| 7440-50-8 | Copper | 41.4 | Ī | | P |
| 7439-89-6 | Iron | 223000 | Ī | | P |
| 7439-92-1 | Lead | 89.9 | T | E | P |
| 7439-95-4 | Magnesium | 4560 | | l | P |
| 7439-96-5 | Manganese | 3340 | | | P |
| 7440-02-0 | Nickel | 13.8 | Ī | E | P |
| 7440-09-7 | Potassium | 1630 | İ | | P |
| 7782-49-2 | Selenium | 1 4.4 | Ū | İ | P |
| 7440-22-4 | Silver | 0.55 | Ū | Ī | P |
| 7439-97-6 | Mercury | 0.026 | 1 | <u> </u> | CV |
| 7440-23-5 | Sodium | 943 | Ī | <u> </u> | P |
| 7440-28-0 | Thallium | 6.7 | ט | <u> </u> | P |
| 7440-62-2 | Vanadium | 34.4 | Ī | | P |
| 7440-66-6 | Zinc | 473 | | | P |

| Color Before: | BROWN | Clarity Before: | CLOUDY | Texture: | TOPSOIL |
|---------------|--------|-----------------|---------|------------|---------|
| Color After: | AETTOM | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | | | | | |
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INORGANIC ANALYSIS DATA SHEET

| SAMPLE | NO | |
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|--------|----|--|

BS-8 (2.0-2.5)

| CONTRACE: NY | Con | tract: | NY |
|--------------|-----|--------|----|
|--------------|-----|--------|----|

06-133

Lab Code:

STLBLFO

Case No.:

SAS No.:

SDG NO .:

Matrix (soil/water):

SOIL

Lab Sample ID:

A083

AD652026

Level (low/med):

LOW

Date Received:

9/1/2006

% Solids: 87

Concentration Units (ug/L or mg/kg dry weight):

| CAS No. | Analyte | Concentration | С | Q | М |
|-----------|-----------|---------------|----|---|----|
| 7440-36-0 | Antimony | 15.8 | U | | P |
| 7440-38-2 | Arsenic | 2.5 | 1 | | P |
| 7440-41-7 | Beryllium | 6.0 | 1 | E | P |
| 7440-43-9 | Cadmium | 0.21 | טן | 1 | P |
| 7440-47-3 | Chromium | 1.5 | 1 | E | P |
| 7440-50-8 | Copper | 7.2 | Τ | 1 | P |
| 7439-92-1 | Lead | 6.2 | | E | P |
| 7440-02-0 | Nickel | 3.2 | | E | P |
| 7782-49-2 | Selenium | 4.2 | IJ | | P |
| 7440-22-4 | Silver | 0.54 | U | 1 | P |
| 7439-97-6 | Mercury | 0.026 | | | cv |
| 7440-28-0 | Thallium | 6.3 | U | | P |
| 7440-66-6 | Zinc | 11.8 | | | P |

| Color Before: | VARIED | Clarity Before: | CLOUDY | Texture: | GRAVEL |
|---------------|--------|-----------------|---------|------------|--------|
| Color After: | YELLOW | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | | | | | |
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

| BS-9 | (2-3 | 2 & | 4-4.6) |
|------|------|-----|--------|
| | | | |

Contract:

NY06-133

Lab Code:

STLBLFO

Case No.:

SAS No.:

SDG NO.:

E80A

Matrix (soil/water):

SOIL

Lab Sample ID:

AD652030

Level (low/med):

LOW

Date Received:

9/1/2006

% Solids: 92

Concentration Units (ug/L or mg/kg dry weight):

| CAS No. | Analyte | Concentration | c | <u>Ω</u> | м |
|-----------|-----------|---------------|----------|----------|----|
| 7429-90-5 | 1 | 01000 | 1 | ļ | 1. |
| | Aluminum | 21200 | <u> </u> | <u> </u> | P |
| 7440-36-0 | Antimony | 15.6 | U | <u> </u> | P |
| 7440-38-2 | Arsenic | 2.1 | U | | P |
| 7440-39-3 | Barium | 362 | | | P |
| 7440-41-7 | Beryllium | 3.2 | | E | P |
| 7440-43-9 | Cadmium | 0.21 | U | 1 | P |
| 7440-70-2 | Calcium | 214000 | | 1 | P |
| 7440-47-3 | Chromium | 1.8 | 1 | E | P |
| 7440-48-4 | Cobalt | 0.12 | B | 1 | P |
| 7440-50-8 | Copper | 1.1 | I | | P |
| 7439-89-6 | Iron | 2070 | | 1 | P |
| 7439-92-1 | Lead | 1.2 | 1 | E | P |
| 7439-95-4 | Magnesium | 13500 | | | P |
| 7439-96-5 | Manganese | 162 | Ī | | P |
| 7440-02-0 | Nickel | 0.74 | | E | P |
| 7440-09-7 | Potassium | 3300 | Ī | 1 | P |
| 7782-49-2 | Selenium | 4.2 | Ū | | P |
| 7440-22-4 | Silver | 0.56 | Ū | | P |
| 7439-97-6 | Mercury | 0.017 | U | [| CV |
| 7440-23-5 | Sodium | 627 | 1 | 1 | P |
| 7440-28-0 | Thallium | 6.2 | Ū | Ī | P |
| 7440-62-2 | Vanadium | 5.3 | Ī | | P |
| 7440-66-6 | Zinc | 4.9 | I | l | P |

| Color Before: | VARIED | Clarity Before: | CLOUDY | Texture: | GRAVEL |
|---------------|--------|-----------------|---------|------------|--------|
| Color After: | YELLOW | Clarity After: | CLDY/FI | Artifacts: | |
| Comments: | | | | | |
| _ | | | | | |
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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

| Contract: | NY06-133 | FIELD : | BLANK | | |
|-------------|-----------|-----------|----------------|----------|------|
| Lab Code: | STLBLFO | Case No.: | SAS No.: | SDG NO.: | A083 |
| Matrix (soi | 1/water): | WATER | Lab Sample ID: | AD651575 | |
| Level (low/ | med): LC | W | Date Received: | 9/1/2006 | |

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | м |
|-----------|-----------|---------------|----|---|----|
| 7429-90-5 | Aluminum | 200 | U | | P |
| 7440-36-0 | Antimony | 20.0 | U | | P |
| 7440-38-2 | Arsenic | 1.00 | שן | 1 | M |
| 7440-39-3 | Barium | 2.0 | U | | P |
| 7440-41-7 | Beryllium | 2.0 | ש | l | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 500 | שן | | P |
| 7440-47-3 | Chromium | 4.0 | U | 1 | P |
| 7440-48-4 | Cobalt | 4.0 | U | | P |
| 7440-50-8 | Copper | 10.0 | U | | P |
| 7439-89-6 | Iron | 196 | | | P |
| 7439-95-4 | Magnesium | 200 | ט | | P |
| 7439-96-5 | Manganese | 3.3 | | 1 | P |
| 7440-02-0 | Nickel | 10.0 | שן | | P |
| 7440-09-7 | Potassium | 500 | U | | P |
| 7782-49-2 | Selenium | 15.0 | U | | P |
| 7440-22-4 | Silver | 3.0 | U | | P |
| 7439-97-6 | Mercury | 0.200 | U | | cv |
| 7440-23-5 | Sodium | 1390 | | | P |
| 7440-28-0 | Thallium | 20.0 | ש | | P |
| 7440-62-2 | Vanadium | 5.0 | שן | | P |
| 7440-66-6 | Zinc | 10.6 | I | | P |
| 7439-92-1 | Lead | 1.00 | U | | M |

| Color Before: | COLORLESS | Clarity Before: | CLEAR | Texture: | NONE |
|---------------|-----------|-----------------|-------|------------|------|
| Color After: | COLORLESS | Clarity After: | CLEAR | Artifacts: | |
| Comments: | | | | | |
| | | | | | |
| - | | | | | |

| | v | | | BH-4(1.2-1.5&2-3.5) |
|------------------------|-----------|-----------|-----------------|-----------------------|
| Lab Name: STL Buffalo | | Contract: | | |
| Lab Code: <u>RECNY</u> | Case No.: | SAS No.: | | SDG No.: <u>A083</u> |
| Matrix (soil/water): | SOIL | | Lab Sample ID: | <u>A6A08310</u> |
| % Solids: | 89.0 | | Date Samp/Recv: | 08/29/2006 09/01/2006 |

| Parameter Name | Units of Measure | Result | Ŋ | Q | N | 1 | Method Number | Analyzed Date |
|----------------------------------|---------------------|--------|---|---|---|---|------------------|------------------|
| SGT Total Petroleum Hydrocarbons | MG/KG | 305 | | | | | 1664 SGT | 09/09/2006 |

| Con | ments: | | | | |
|-----|--------|---|--|--|--|
| | | 4 | | | |
| | | | | | |
| | | | | | |

| | | | | 1 | 3H-5 | |
|---------------------|--------------------------|---|---|--|---|--|
| Contract | : | | _ | L | | |
| SAS No. | : | | | | SDG No.: <u>A0</u> | 83 |
| | Lab Samp | ole | e ID: | <u>A62</u> | A08311 | |
| | Date Sar | np/ | 'Recv: | 08 | /29/2006 <u>09</u> | /01/2006 |
| Units of Measure | Result | C | Q | М | Method Number | Analyzed Date |
| MG/KG | 218 | | - | | 1664 SGT | 09/09/2006 |
| | | | | | | |
| | SAS No. Units of Measure | SAS No.: Lab Samp Date Samp Date Samp Units of Measure Result | Lab Sample Date Samp/ Units of Measure Result C | SAS No.: Lab Sample ID: Date Samp/Recv: Units of Measure Result C Q | Contract: SAS No.: SA | SAS No.: SDG No.: A0 Lab Sample ID: A6A08311 Date Samp/Recv: 08/29/2006 09 Units of Measure Result C Q M Number |

LaBella Associates LaBella Associates

Wet Chemistry Analysis Client Sample No.

| | | | | | | B | Н-6 | |
|-------------------------------|--------------|---------------------|----------|-------|--------------|----------|--------------------------|------------------|
| Lab Name: <u>SIL Buffal</u> d | 2 | Contract | : | | | L | | • |
| Lab Code: <u>RECNY</u> | Case No.: | _ SAS No. | : | | | S | DG No.: <u>A0</u> | 83 |
| Matrix (soil/water): | SOIL | | Lab Samp | ole I | D: <u>2</u> | 16A | 08312 | |
| % Solids: | 86.5 | | Date San | np/Re | cv: <u>l</u> | <u> </u> | <u>31/2006</u> <u>09</u> | /01/2006 |
| Para | meter Name | Units of Measure | Result | C . | Q | ч | Method Number | Analyzed Date |
| SGT Total Petroleum | Hydrocarbons | MG/KG | 511 | | | | 1664 SGT | 09/09/2006 |
| Comments: | | | | | | | | |
| | · | | | | | | | |

| Tale Management Co. | 1- | G | | | | | BS-5 COMP 1 | |
|------------------------|-------------|---------------------|----------|-----|--------|-----------|--------------------|------------------|
| Lab Name: STL Buffal | <u>.o</u> | Contract | : | | | | | |
| Lab Code; <u>RECNY</u> | Case No.: | SAS No. | : | | | : | SDG No.: AO | 83 |
| Matrix (soil/water): | SOIL | | Lab Samp | ole | D: | <u>A6</u> | <u> </u> | |
| % Solids: | 89.3 | | Date San | np/ | 'Recv: | <u>09</u> | /01/2006 <u>09</u> | /06/2006 |
| Para | ameter Name | Units of Measure | Result | С | Q | М | Method Number | Analyzed Date |
| Cyanide - Total_ | | UG/G | 0.95 | ם | | | 9012A | 09/14/2006 |
| Comments: | | | | | | | | |
| | | | | | | | | |

| | | | | I | 3S-5 COMP 2 | • |
|---------------------|--------------------------|---|---|--|--|---|
| Contract | : | | - | L | | |
| SAS No. | : | | | 5 | EDG No.: <u>A0</u> | 83 |
| | Lab Samp | ple | D: | <u>A6</u> 2 | A16907 | |
| | Date San | np/ | 'Recv: | <u>09</u> , | / <u>01/2006</u> <u>09</u> | /06/2006 |
| Units of Measure | Result | С | Q | М | Method Number | Analyzed Date |
| UG/G | 1.1 | U | | | 9012A | 09/14/2006 |
| | | | | | | |
| | SAS No. Units of Measure | SAS No.: Lab Samp Date Sam Units of Measure Result | Lab Sample Date Samp/ Units of Measure Result C | SAS No.: Lab Sample ID: Date Samp/Recv: Units of Measure Result C Q | Contract: SAS No.: SAS | SAS No.: SDG No.: <u>A08</u> Lab Sample ID: <u>A6A16907</u> Date Samp/Recv: <u>09/01/2006</u> 09 Units of Measure Result C Q M Method Number |

| | | | | | |] | BS-5 COMP 2 | |
|------------------------|-------------|---------------------|----------|-----|-------|-------------|--------------------|------------------|
| Lab Name: STL Buffalo | | Contract | | | _ | L | | |
| Lab Code: <u>RECNY</u> | Case No.: | SAS No. | | | | : | SDG No.: A0 | 83 |
| Matrix (soil/water): S |)III | | Lab Samp | ple | D: | <u>A6</u> 2 | A16907FD | |
| % Solids: | <u>32.4</u> | | Date San | np/ | Recv: | <u>09</u> | /01/2006 <u>09</u> | <u>/06/2006</u> |
| Parame | ter Name | Units of Measure | Result | С | Q | М | Method Number | Analyzed Date |
| Cyanide - Total | · | UG/G | 0.98 | υ | | | 9012A | 09/14/2006 |
| Comments: | | | | | | | | |
| | | | | | | | | |

| • | | | | | | 1 | BS-5 COMP 2 | |
|------------------------|-------------|---------------------|----------|-----|-------|-------------|--------------------|------------------|
| Lab Name: STL Buffalo | | Contract | | | | i_ | | |
| Lab Code: <u>RECNY</u> | Case No.: | SAS No. | | | | : | SDG No.: AO | <u>83</u> |
| Matrix (soil/water): § | <u>XOIL</u> | | Lab Samp | ole | ID: | <u>A6</u> 2 | <u> 431602</u> | |
| % Solids: | 0.0 | | Date Sam | np/ | Recv: | <u>09</u> | /01/2006 <u>09</u> | /06/2006 |
| Parame | eter Name | Units of Measure | Result | C | Q | М | Method Number | Analyzed Date |
| Total Carbon_ | | MG/KG | 3210 | | | | KAHN | 09/13/2006 |
| Comments: | | | · | | | | | |
| | | | | | | | | |

| | | | | | I | BS-7 (8.0-9 | .2) |
|---------------------------|-------------------------------|----------|-----|-------|-------------|--------------------|------------------|
| Lab Name: SIL Buffalo | Contract | : | | | L | | |
| Lab Code: RECNY Case No.: | SAS No.: SDG No.: <u>A083</u> | | | | | | |
| Matrix (soil/water): SOIL | | Lab Samp | ole | ID: | <u>A6</u> 2 | A17101 | |
| % Solids: <u>0.0</u> | | Date San | np/ | Recv: | <u>08</u> | /30/2006 <u>09</u> | /06/2006 |
| Parameter Name | Units of Measure | Result | С | Q | М | Method Number | Analyzed Date |
| Total Carbon | MG/KG | 658 | Ū | | | KAHN | 09/07/2006 |
| Comments: | | | | | | | |

Client Sample No.

DG 7/1 1 E C 2 2 0

| | | | | | | 1 | 35-7(1-1.5 | & Z-Z.0) |
|---|-----------|---------------------|----------|-----|--------|--|--------------------|------------------|
| Lab Name: STL Buffalo | | Contract | : | | - | <u>. </u> | | |
| Lab Code: <u>RECNY</u> | Case No.: | SAS No. | : | | | 5 | SDG No.: A0 | 83 |
| Matrix (soil/water): | SOIL | | Lab Samp | ole | E ID: | <u>A6</u> 2 | A08306 | |
| % Solids: | 87.0 | | Date San | ηp/ | 'Recv: | <u>08</u> | /30/2006 <u>09</u> | /01/2006 |
| Param | eter Name | Units of Measure | Result | С | Q | М | Method Number | Analyzed Date |
| Cyanide - Total | | UG/G | 1.1 | U | | | 9012A | 09/08/2006 |
| Comments: | · | | | | | | | |
| Annie Control of the | | <u> </u> | | | | | | |

Client Sample No.

BS-7(4-5.5 & 6-7.6)

| | | | | | | 1 | 35-7(4-3.5 | & 0-7.0) |
|-------------------------|---------|---------------------|----------|-----|-------|-------------|--------------------|------------------|
| Lab Name: STL Buffalo | | Contract | : | | _ | _ | | |
| Lab Code: RECNY | SAS No. | : | | | : | SDG No.: A0 | 83 | |
| Matrix (soil/water): SC | ш. | | Lab Samp | ole | D: | <u>A6</u> 2 | 808308 | |
| % Solids: 8 | 0.1 | ÷ | Date San | np/ | Recv: | <u>08</u> | /30/2006 <u>09</u> | /01/2006 |
| Paramet | er Name | Units of Measure | Result | С | Q | М | Method Number | Analyzed Date |
| Cyanide - Total | | UG/G | 1.2 | ט | | | 9012A | 09/08/2006 |
| Comments: | | | | | · | | | |
| | | | | | | | | |

| | | | | | | BS-9 (14-15 |) . · · |
|----------------------------------|---------------------|----------|-----|-------|-----------|--------------------|------------------|
| Lab Name: <u>STL Buffalo</u> | Contract | : | | _ | | | |
| Lab Code: RECNY Case No.: | SAS No. | : | | | į | SDG No.: <u>A0</u> | 83 |
| Matrix (soil/water): <u>SOIL</u> | | Lab Sam | ole | : ID: | <u>A6</u> | A17102 | |
| % Solids: <u>0.0</u> | | Date Sar | np/ | Recv: | <u>08</u> | <u>/30/2006</u> | /06/2006 |
| Parameter Name | Units of Measure | Result | С | Q | М | Method Number | Analyzed Date |
| Total Carbon | MG/KG | 12000 | | | | KAHN | 09/07/2006 |
| Comments: | | | | | | | |

Client Sample No.

| BS-9(2-3.2 | & | 4-4.6) |
|------------|---|--------|
| | | |

Lab Name: STL Buffalo

Contract: ____

SDG No.: <u>A083</u>

Lab Code: RECNY Case No.: ____

SAS No.: ____

Matrix (soil/water): SOIL

Lab Sample ID: A6A08307

% Solids: <u>92.1</u>

Date Samp/Recv: 08/30/2006 09/01/2006

| Parameter Name | Units of Measure | Result | С | Q | M | Method Number | Analyzed Date |
|-----------------|---------------------|--------|---|---|---|------------------|------------------|
| Cyanide - Total | UG/G | 1.1 | ט | | | 9012A | 09/08/2006 |

| Comments: | • | | | |
|-----------|---|--|--|--|
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Client Sample No.

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| | BS-9(6.0-6.9) |
| - 1 | |
| - 1 | • |

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: ____

SAS No.: ____

SDG No.: A083

Matrix (soil/water): SOIL

Lab Sample ID: A6A08309

% Solids:

Date Samp/Recv: <u>08/30/2006</u> <u>09/01/2006</u>

| ł | Units of Measure | Result | С | Q | М | Method Number | Analyzed Date |
|-----------------|---------------------|--------|---|---|---|------------------|------------------|
| Cyanide - Total | UG/G | 1.1 | U | | | 9012A | 09/08/2006 |

| Comments: | | | | |
|-----------|--|------|------|---|
| | | | | |
| | | | | _ |
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|--|---------------------|--------------|-----|-------|------------|--------------------|--------------------------|
| | | | | | | TELD BLANK | |
| Lab Name: <u>STL Buffalo</u> | Contract | : | | - | _ | | |
| Lab Code: RECNY Case No.: | SAS No. | : | | • | | EDG No.: <u>A0</u> | 83 |
| Matrix (soil/water): WATER | | Lab Samp | ole | ID: | <u>A67</u> | A08313 | |
| % Solids: <u>0.0</u> | | Date San | īp/ | Recv: | 08 | /29/2006 09 | /01/2006 |
| Parameter Name | Units of Measure | Result | С | Q | М | Method Number | Analyzed Date |
| Cyanide - Total SGT Total Petroleum Hydrocarbons | MG/L MG/L | 0.010 5.0 | | | | 9012 1664 SGT | 09/08/2006 09/03/2006 |
| Comments: | | | | | | | |

SEVERN TRENT

Chain of Custody Record

Amberst, NY 14288 10 Hazelwood Drive SIL Burraio

Suite 106

ab to Homogenize Prior to Analaysis Lab to Homogenize Prior to Analaysis Lab to Homogenize Prior to Analaysis ab to Homogenize Prior to Analuysis Date/Time: 09/06/2006 C 050/ Date/Time: Severn Trent Laboratories, Inc. Lab to Composite and Also Sample Specific Notes: Lab to Composite and Also Run Duplicate Analysis Analyze for MS/MSD are retained longer than 1 month) Preservative = HCJ Job No. 20637 Date/Time: COC No: Date: September 6, 2006 Sample Disposal (A fee may be assessed it samples Carrier: Lab Courier Company: Company: Company: X Disposal By Lab × × × × otal Organic Carbon × × × × × × × X × × × × × × × SEC BE Site Contact: Craig A. Stiles Lab Contact: Jason Kikalski × × × × × × × × × × × Received by: × × × Scrived by × × × × X PN × × v AOC* LCF OWA (8760B LCF Owly) Date/Time: X Unknown Cont. ~ 4 ASP Category B Deliverables Date/Time: Water Soil Soil Soil Soil Soil Soil Soil Soll Soil Soil Soil Soil Soil Project Manager: Mr. Dennis Porter Analysis Turnaround Time Tel/Fax: (585) 454-6110 / 454-3066 Culendar (C) or Work Days (W) Poison B Sample Soil Soil Type Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Soil Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other TAT if different from Below Standard 2 weeks 2 days l day Company: LaBella Associates, P.C. 0350 Sample 1255 0716 1205 1208 1225 1240 1247 1055 1020 1233 0823 1220 0645 Skin Irritani 30-Aug-06 30-Aug-06 Сотралу: 1-Sep-06 \boxtimes 1-Sep-06 1-Sep-06 1-Sep-06 Sample Date 1-Sep-06 1-Sep-06 1-Sep-06 5-Sep-06 1-Sep-06 1-Sep-06 1-Sep-06 Company: 1-Sep-06 Special Instructions/QC Requirements & Comments: Phone FAX Project Name: Proposed Port Marina phone 716-691-2600 fax 716-691-7991 BS-7 (8.0' to 9.2') Sample Identification BS-10 (0.6' - 1.3') BS-5 (10' - 11.1') BS-5 (12' - 13.2') BS-9 (14' to 15') BS-5 (6' - 6.2') BS-5 (8' - 8.2') BS-5 (2' - 2.7') BS-5 (4' - 5.2') BS-2 (2' - 2.4') BS-6 (2' - 2.7') BS-5 (1'-1.3') BS-1 (2' - 3.5') Cllent Contact **Trip Blank** ossible Hazard Identification Rochester, New York 14614 300 State Street, Sulte 201 aBella Associates, P.C. Site: Port of Rochester Relinquished by: (585) 454-6110 (585) 454-3066 P O # 206377

Loch ME COLOR: SAMLES

Chain of Custody Record

STL Buffalo
10 Hazelwood Drive

Suite 106

TRENT STL

| Amherst, New York 14228 phone 716-691-2600 fax 716-691-7991 | : | : | | | | | ٠. | | | | • | | Severi T | rent I shorstories |
|---|----------------|-------------------------------|--------------------------------------|------------|--------------------------------|---------------|----------------------|----------------------|--------------|--------------------------|--------------------------------------|--------------|---|---|
| Client Contact | Project Mr. | Project Monogon Donnie Boston | ndo Doutou | | 710 | | | | \$ | | İ | | Devell 1 | Severil Ivent Laboratories, and |
| Chem Contact | rroject ivis | nager: Der | inis Forter | | ã | Site Contact: | | | | اق | | | COC NO. | |
| LaBella Associates, P.C. | Tel/Fax: (5 | 85) 295-62 | Tel/Fax: (585) 295-6245 / 454-3066 | 9 | La | Lab Contact: | | | CB | Carrier: | | | 1 | of1 cocs |
| 300 State Street, Suite 201 | | Analysis T | Analysis Turnaround Time | Time | | | L | | | | E | | Job No. | |
| Rochester, New York 14614 | Calenda | (C) or We | Calendar (C) or Work Days (W) | | | | | | | s | | | | |
| (585) 454-6110 Phone | TAT | different from | TAT if different from Below Standard | Į. | | | | | | LVE | | | | |
| (585) 454-3066 FAX | | | 2 weeks | | | | | | | | _ | | SDG No. | |
| Project Name: Proposed Port Marina | | - | 1 week | | | | ~ | | | | | | | |
| Site: Port of Rochester, Rochester, NY | | • | 2 days | | |)IT: | | | | - | | | | |
| P O # 206377 | | , , | day | | adii | snįd ST | nd a | s | | | | | | |
| Sample Identification | Sample Date | Sample Time | Sample Type | Matrix | # of Cont. | PPL META | TCL SVOC | TAL Metal Cyanide | TCL VOCS | ACE VOCS | RCRA Met | НФТ | , s | Sample Specific Notes: |
| BS-3 (1.1 ^c 1.7) | 8/29/2006 | 15:22 | COMP | FILL | 1 | × | | | | | | | | A CONTRACT MANAGEMENT TO THE TRACE LEAVE OF THE STREET, AND A STREET, AND A STREET, AND A STREET, AND A STREET, |
| BS-4 (1.0°-1.5) | 8/29/2006 | 13:12 | COMP | FILL | - | X | | | | | | | | |
| BS-8 (2.0'-2.5') | 8/30/2006 | 10:43 | COMP | PILL | 1 | × | | | _ | | | | | |
| BS-11 (0.0-1.4) | 8/31/2006 | 14:35 | COMP | FILL | - | × | | | | | | | | |
| BS-12 (0.4:0.6) | 8/30/2006 | 14:20 | COMP | FILL | | × | | | | | | | | |
| BS-7 (1.0-1.5' & 2.0-2.8) | 8/30/2006 | 12:27 | COMP | FILL | 3 | × | × | × | | | | | | |
| BS-9 (2.0'-3.2' & 4.0'-4.6') | 8/30/2006 | 08:38 | COMP | HILL | 3 | XX | × | × | | | | | | |
| BS-7 (4.0-5.5' & 6.0'-7.6') | 8/30/2006 | 12:35 | COMP | SOIL | 2 . | | × | × | × | | | | | , |
| BS-9 (6.0'-6.9) | 8/30/2006 | 08:50 | COMP | SOL | 2 | | X | х | × | | | | | |
| ВН 4 (1.2-1.5' & 2.0-3.5') | 8/29/2006 | 09:35 | COMP | SOIL | 2 | | , × | | | × | × | × | | |
| BH-5 (1.0-1.5; 2.0-3.5; & 3.5-4.2) | 8/29/2006 | 11:35 | COMP | SOIL | 3 | | × | | | X | Х | X | | |
| BH-6 (1.0-1.5', 2.0-3.8', & 4.0-4.3) | 8/31/2006 | 10:29 | COMP | SOIL | 3 | | × | | | × | × | | | |
| Field Blank | 8/29/2006 | 13:00 | NA | Water | 8 | ××× | × | × | - | | Ŷ | × | | - |
| Trip Blank | 8/31/2006 | 17:00 | NA | Water | 2 | | | | | × | | | | |
| Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other | 4=HNO3; 5: | :NaOH; 6= | Other | | - | | | | | | | | | |
| Possible Hazard Identification Non-Hazard Flammable | Skin Irritant | | Poison B | П Опкпочп | спочт | Sample L | imple Disposal (A f | (A fee I | nay be □□ | asses: Visposa | e assessed if sar Disposal By Lab | amples are | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For 1 Month | than 1 month) |
| is/QC Requirements & Coi e Cat B | ıts: (1) Pleas | e composit | e each samp | le with m | ultiple jar | into 1 hor | повевеоп | is sample | . (2) Ple | se call | Dennis | Porter at La | Bella Associates | before disposing of |
| Relinquished by: Craig A. Stiles | Company: I | aBelia Asso | Company: LaBella Associates, P.C. | | Date/Time: 8-31- 06 / 17:00 | Received by: | y: | | | <u>ŏ</u> | Company: | | Date/Time: | |
| Relinquished by Mark F. By A. | Company: | La Bellon Assec. | ssec. | Bate/Time: | Date/Time: 8-3 1/66 @ / 2cu | Received by: | | | | 8 | Company: | | Date/Time: | |
| Relinguished by: | Company: | ٠, د | | Date/Time: | Date/Time: 4.1-66 2130 | Received by | 7 | 20 | Z | 8 - | Company: | IES, | DateClin | 151 90 |
| 11 70 1110 | | ٩ | | | | | | * | 1 | 1 | r | | | 2 |



STL Buffalo

10 Hazelwood Drive, Suite 106 Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991 www.stl-inc.com

ANALYTICAL REPORT

Job#: <u>A06-D454</u>

STL Project#: NY2A8951.6

Site Name: <u>LaBella Associates</u>
Task: Proposed Port Marina

Mr. Dan Noll LaBella Associates 300 State St. Suite 201 Rochester, NY 14614

STL Buffalo

Jason R. Kacalski Project Manager

11/29/2006

Sample Data Summary Package

SAMPLE SUMMARY

| | | | SAMPI | ED | RECEIVI | ED CE |
|---------------|------------------|--------|------------|-------|------------|-------|
| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | DATE | TIME | DATE | TIME |
| A6D45402 | BS-13 (2.0-3.1) | SOIL | | | 11/10/2006 | |
| A6D45401 | BS-18 (2.0-3.4) | SOIL | | | 11/10/2006 | |
| A6D45406 | BS-21 (4.0-4.5) | SOIL | | | 11/10/2006 | |
| A6D45403 | BS-22 (2.0-3.0) | SOIIL | | | 11/10/2006 | |
| A6D45408 | BS-27 (4.5-5.5) | SOIL | | | 11/10/2006 | |
| A6D45407 | BS-28 (4.0-5.4) | SOIL | | | 11/10/2006 | |
| A6D45404 | BS-30 (0.5-1.1) | SOIL | | | 11/10/2006 | |
| A6D45405 | BS-31 (2.0-2.9) | SOIL | 11/07/2006 | 10:12 | 11/10/2006 | 16:20 |
| A6D45409 | Trip Blank | WATER | 11/06/2006 | | 11/10/2006 | 16:20 |

METHODS SUMMARY

Job#: <u>A06-D454</u>

SIL Project#: NY2A8951.6

Site Name: <u>LaBella Associates</u>

| PARAMETER | ANALYTICAL METHOD |
|---|--|
| METHOD 8260 - STARS LIST | SW8463 8260 |
| METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS | SW8463 8270 |
| Arsenic - Total Cadmium - Total Chromium - Total Mercury - Total | SW8463 6010 SW8463 6010 SW8463 6010 SW8463 7471 |

References:

SW8463

"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: <u>A06-D454</u>

SIL Project#: NY2A8951.6

Site Name: <u>LaBella Associates</u>

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-D454

Sample Cooler(s) were received at the following temperature(s); 2.0 °C All samples were received in good condition.

GC/MS Volatile Data

The analyte Toluene was detected in the Trip Blank at a level above the reporting limit. Toluene was not detected in any of the associated samples, therefore there is no impact on data usability.

GC/MS Semivolatile Data

The relative percent difference (%RPD) between the Matrix Spike Blank/Matrix Spike Blank Duplicate MSB18/MSBD18 exceeded quality control criteria for Acenaphthene. The remaining analyte's individual recoveries are compliant. No action required.

The chromatographic peaks for Benzo(b) fluoranthene and Benzo(k) fluoranthene could not be resolved for samples BS-22 (2.0-3.0) and BS-27 (4.5-5.5) due to the sample matrix. The final value is reported as Benzo(b) fluoranthene in this data package but should be considered an and/or value for both compounds.

Metals Data

The recoveries of sample BS-18 (2.0-3.4) Post Spike exhibited results below the quality control limits for Arsenic, Cadmium, and Chromium. However, the LCS was acceptable.

The Serial Dilution of sample BS-18 (2.0-3.4) exceeded the quality control limits for Chromium. However, the LCS was acceptable.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Date: 11/29/2006 Time: 09:06:52

Dilution Log w/Code Information For Job A06-D454 9/0/9

5.00 012

Rept: AN1266R

 Client Sample ID
 Lab Sample ID
 Parameter (Inorganic)/Method (Organic)
 Dilution
 Code

 BS-13 (2.0-3.1)
 A6D45402
 8270
 20.00
 012

 BS-30 (0.5-1.1)
 A6D45404
 8270
 20.00
 012

| Dilution Code Definition | D | i | lut | ion | Code | Defi | ni: | t i or | ١: |
|--------------------------|---|---|-----|-----|------|------|-----|--------|----|
|--------------------------|---|---|-----|-----|------|------|-----|--------|----|

BS-31 (2.0-2.9)

002 - sample matrix effects

003 - excessive foaming

A6D45405

004 - high levels of non-target compounds

8270

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| CUSTOMER SAMPLE ID | LABORATORY SAMPLE ID | · | | ANALY' | ΓΙCAL REQ | UIREMENT | S | |
|-----------------------|-------------------------|--------------|--------------|------------|-------------|----------|--------------|------------------|
| | | VOA GC/MS | BNA GC/MS | VOA GC | PEST PCB | METALS | TCLP HERB | WATER QUALITY |
| BS-13 (2.0-3.1) | A6D45402 | SW8463 | SW8463 | <u>-</u> | - | SW8463 | _ | - |
| BS-18 (2.0-3.4) | A6D45401 | SW8463 | SW8463 | _ | - | SW8463 | | <u></u> |
| BS-21 (4.0-4.5) | A6D45406 | SW8463 | SW8463 | _ | - | SW8463 | - | - |
| BS-22 (2.0-3.0) | A6D45403 | SW8463 | SW8463 | _ | - | SW8463 | | - |
| BS-27 (4.5-5.5) | A6D45408 | SW8463 | SW8463 | - | - | SW8463 | - | - |
| BS-28 (4.0-5.4) | A6D45407 | SW8463 | SW8463 | _ | | SW8463 | - | · <u>-</u> |
| BS-30 (0.5-1.1) | A6D45404 | SW8463 | SW8463 | - . | | SW8463 | - | - |
| BS-31 (2.0-2.9) | A6D45405 | SW8463 | SW8463 | <u>.</u> | | SW8463 | | - |

NYSDEC-1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| ************************************** | J NAME. SEVERN IKE | 11 10 10 010 11 | UIGADI III.U. | | | |
|--|--------------------------|-----------------|-------------------|----------------------------|-------------------|------------------|
| | SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
| | BS-13 (2.0-3.1) | SOIL | 11/07/2006 | 11/10/2006 | - | 11/15/2006 |
| | BS-18 (2.0-3.4) | SOIL | 11/06/2006 | 11/10/2006 | - | 11/15/2006 |
| | BS-21 (4.0-4.5) | SOIL | 11/08/2006 | 11/10/2006 | . | 11/15/2006 |
| | BS-22 (2.0-3.0) | SOIL | 11/07/2006 | 11/10/2006 | - | 11/15/2006 |
| | BS-27 (4.5-5.5) | SOIL | 11/08/2006 | 11/10/2006 | - | 11/15/2006 |
| | BS-28 (4.0-5.4) | SOIL | 11/08/2006 | 11/10/2006 | - | 11/15/2006 |
| | BS-30 (0.5-1.1) | SOIL | 11/07/2006 | 11/10/2006 | - | 11/15/2006 |
| | BS-31 (2.0-2.9) | SOIL | 11/07/2006 | 11/10/2006 | - | 11/15/2006 |

NYSDEC-2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY B\N-A ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| D. 120 TVI 11111111111111111111111111111111111 | V DIG V TICE | 11 DADORAL | UKIES, INC. | | | |
|--|--------------|------------|-------------------|----------------------------|-------------------|------------------|
| SAM IDENTIFI | | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
| BS-13 (2 | 2.0-3.1) | SOIL | ` 11/07/2006 | 11/10/2006 | 11/15/2006 | 11/16/2006 |
| BS-18 (2 | 2.0-3.4) | SOIL | 11/06/2006 | 11/10/2006 | 11/15/2006 | 11/16/2006 |
| BS-21 (4 | 1.0-4.5) | SOIL | 11/08/2006 | 11/10/2006 | 11/15/2006 | 11/16/2006 |
| BS-22 (2 | 2.0-3.0) | SOIL | 11/07/2006 | 11/10/2006 | 11/15/2006 | 11/16/2006 |
| BS-27 (4 | 1.5-5.5) | SOIL | 11/08/2006 | 11/10/2006 | 11/15/2006 | 11/16/2006 |
| BS-28 (4 | 1.0-5.4) | SOIL | 11/08/2006 | 11/10/2006 | 11/15/2006 | 11/16/2006 |
| BS-30 (0 |).5-1.1) | SOIL | 11/07/2006 | 11/10/2006 | 11/15/2006 | 11/16/2006 |
| BS-31 (2 | 2.0-2.9) | SOIL | 11/07/2006 | 11/10/2006 | 11/15/2006 | 11/16/2006 |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYTICAL SUMMARY INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| ~4 | ID INAME: SEVERIN I | ICLIVI LADO | MATORIES, MAC. | | | |
|----|--------------------------|-------------|---------------------|----------------------------|------------------|------------------|
| | SAMPLE IDENTIFICATION | MATRIX | METALS REQUESTED | DATE RECEIVED AT LAB | DATE DIGESTED | DATE ANALYZED |
| | BS-13 (2.0-3.1) | SOIL | RCRA ME | 11/10/2006 | 11/14/2006 | 11/14-11/15/2006 |
| | BS-18 (2.0-3.4) | SOIL | RCRA ME | 11/10/2006 | 11/14/2006 | 11/14-11/15/2006 |
| | BS-21 (4.0-4.5) | SOIL | RCRA ME | 11/10/2006 | 11/14/2006 | 11/14-11/15/2006 |
| | BS-22 (2.0-3.0) | SOIL | RCRA ME | 11/10/2006 | 11/14/2006 | 11/14-11/15/2006 |
| | BS-27 (4.5-5.5) | SOIL | RCRA ME | 11/10/2006 | 11/14/2006 | 11/14-11/15/2006 |
| | BS-28 (4.0-5.4) | SOIL | RCRA ME | 11/10/2006 | 11/14/2006 | 11/14-11/15/2006 |
| | BS-30 (0.5-1.1) | SOIL | RCRA ME | 11/10/2006 | 11/14/2006 | 11/14-11/15/2006 |
| | BS-31 (2.0-2.9) | SOIL | RCRA ME | 11/10/2006 | 11/14/2006 | 11/14-11/15/2006 |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY ORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| SAMPLE IDENTIFICATION | MATRIX | ANALYTICAL PROTOCOL | EXTRACTION METHOD | AUXILIARY CLEAN UP | DIL/CONC FACTOR |
|-----------------------|--------|------------------------|----------------------|-----------------------|--------------------|
| BS-13 (2.0-3.1) | SOIL | SW8463 | SONC | AS REQUIRED | AS REQUIRED |
| BS-18 (2.0-3.4) | SOIL | SW8463 | SONC | AS REQUIRED | AS REQUIRED |
| BS-21 (4.0-4.5) | SOIL | SW8463 | SONC | AS REQUIRED | AS REQUIRED |
| BS-22 (2.0-3.0) | SOIL | SW8463 | SONC | AS REQUIRED | AS REQUIRED |
| BS-27 (4.5-5.5) | SOIL | SW8463 | SONC | AS REQUIRED | AS REQUIRED |
| BS-28 (4.0-5.4) | SOIL | SW8463 | SONC | AS REQUIRED | AS REQUIRED |
| BS-30 (0.5-1.1) | SOIL | SW8463 | SONC | AS REQUIRED | AS REQUIRED |
| BS-31 (2.0-2.9) | SOIL | SW8463 | SONC | AS REQUIRED | AS REQUIRED |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| 42 | B NAME: SEVERN TREN | CL LADORALI | OKHS, INC. | | | |
|----|---------------------------|-------------|------------------------|------------------------|--------------------|--------------------|
| | LABORATORY SAMPLE CODE | MATRIX | ANALYTICAL PROTOCOL | DIGESTION PROCEDURE | MATRIX MODIFIER | DIL/CONC FACTOR |
| | BS-13 (2.0-3.1) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED |
| | BS-18 (2.0-3.4) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED |
| | BS-21 (4.0-4.5) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED |
| | BS-22 (2.0-3.0) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED |
| | BS-27 (4.5-5.5) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED |
| | BS-28 (4.0-5.4) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED |
| | BS-30 (0.5-1.1) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED |
| | BS-31 (2.0-2.9) | SOIL | SW8463 | SW8463 | AS REQUIRED | AS REQUIRED |



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Arodor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Client No.

| Tab Name | : SIL Buffalo Contract: | | BS-13 (2. | 0-3.1) |
|----------|--|---|---|-------------|
| | | | • | |
| Lab Code | : RECNY Case No.: SAS No.: | SDG No.: | _ | |
| Matrix: | (soil/water) <u>SOIL</u> | Lab Sample ID: | A6D45402 | |
| Sample w | t/vol: <u>5.10</u> (g/mL) <u>G</u> | Lab File ID: | F3566.RR | |
| Level: | (low/med) <u>LOW</u> | Date Samp/Recv: | 11/07/2006 | 11/10/2006 |
| % Moistu | re: not dec. <u>6</u> Heated Purge: Y | Date Analyzed: | 11/15/2006 | |
| 3C Colum | n: <u>DB-624</u> ID: <u>0.18</u> (mm) | Dilution Factor: | 1.00 | |
| Soil Ext | ract Volume: (uL) | Soil Aliquot Vol | ume: | (uL) |
| | CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | | Q |
| | 71-43-2Benzene 100-41-4Ethylbenzene 108-88-3Toluene 1330-20-7Total Xylenes 98-82-8Isopropylbenzene 103-65-1n-Propylbenzene | | 5 U 5 U 16 U 5 U | T T T |
| | 99-87-6p-Cymene 95-63-61,2,4-Trimethylbenzene 108-67-81,3,5-Trimethylbenzene 104-51-8n-Butylbenzene 135-98-8sec-Butylbenzene 98-06-6tert-Butylbenzene 91-20-3Naphthalene 1634-04-4Methyl-t-Butyl Ether (MTBE) | | 5 U U 5 S U U 5 S U U 5 S U U U 5 S U U U 5 S U U U 5 S U U U 5 S U U U 5 S U U U 5 S U U U 5 S U U U 5 S U U U 5 S U U U 5 S U U U U | |
| | 14034-04-4MELIVI-E-BULVI BENET (MIBE) | · 1 | IU | . 1 |

Client No.

BS-18 (2.0-3.4)

| Iah Name: STT. Buffalo | Contract: | 4 | 155-16 | (2.0). | - / |
|---|---|-----------------------------|--|---------------------------------------|----------------|
| | | | | | |
| Lab Code: <u>RECNY</u> Ca | ase No.: SAS No.: | SDG No.: | | | |
| Matrix: (soil/water) | SOIL | Lab Sample | e ID: <u>A6D454</u> | 101 | |
| Sample wt/vol: | <u>5.11</u> (g/mL) <u>G</u> | Lab File I | ID: <u>F3565</u> . | .RR | |
| Level: (low/med) | LOW | Date Samp, | /Recv: <u>11/06</u> | <u>/2006 11/</u> : | 10/200 |
| % Moisture: not dec. | <u>12</u> Heated Purge: <u>Y</u> | Date Analy | yzed: <u>11/15</u> , | /2006 | |
| GC Column: <u>DB-624</u> | ID: <u>0.18</u> (mm) | Dilution I | Factor:1 | .00 | |
| Soil Extract Volume: | (uL) | Soil Aliq | uot Volume: | (1 | ıL) |
| CAS NO. | COMPOUND | CONCENTRATION (ug/L or ug/l | | Q | |
| 108-88-3 1330-20-7 98-82-8 103-65-1 99-87-6 95-63-6 108-67-8 104-51-8 135-98-8 98-06-6 | Ethylbenzene Toluene Total Xylenes Isopropylbenzene n-Propylbenzene | | 6 6 6 6 6 6 6 6 6 6 6 6 | ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם ם | |

Client No.

BS-21 (4.0-4.5)

| Lab Name: STL Buffalo | Contract: | | 153-21 | (4.0, 4.0) |
|---|---|----------------------------------|---------------------------------------|---|
| Lab Code: <u>RECNY</u> Case No.: | | | | · |
| Matrix: (soil/water) <u>SOIL</u> | | Lab Sample | ID: <u>A6D4540</u> | 6 |
| Sample wt/vol: 5.05 | (g/mL) <u>G</u> | Lab File II | F3570.R | <u>R</u> |
| Level: (low/med) <u>LOW</u> | | Date Samp/I | Recv: <u>11/08/2</u> | 006 11/10/2006 |
| % Moisture: not dec3 | Heated Purge: Y | Date Analy | zed: <u>11/15/2</u> | 006 |
| GC Column: DB-624 ID: | 0.18 (mm) | Dilution Fa | actor:1.0 | 0 |
| Soil Extract Volume: | (uL) | Soil Aliqua | ot Volume: | (uL) |
| CAS NO. COMPO | UND | CONCENTRATION ((ug/L or ug/K | | Q |
| 108-88-3Tolue 1330-20-7Total 98-82-8Isopr 103-65-1p-Cym 99-87-61,2,4 108-67-81,3,5 104-51-8But 135-98-8sec-B 98-06-6tert- 91-20-3Napht | benzene ne Xylenes opylbenzene pylbenzene ene -Trimethylbenzene ylbenzene utylbenzene Butylbenzene halene | | 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט |
| 1634-04-4Methy | l-t-Butyl Ether (MIBE) | | 5 | U |

Client No.

BS-22 (2.0-3.0)

| | | BS-22 (2 | 2.0-3.0) | |
|--|---------------------------------------|---|---|-----------|
| Lab Name: STL Buffalo Contract: | | | • | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: | - | | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6D45403 | | |
| Sample wt/vol: $\underline{5.02}$ (g/mL) \underline{G} | Lab File ID: | F3567.RR | | |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 11/07/200 | 06 11/10/200 | <u>)(</u> |
| % Moisture: not dec. <u>6</u> Heated Purge: Y | Date Analyzed: | 11/15/200 | <u>06</u> · | |
| GC Column: <u>DB-624</u> ID: <u>0.18</u> (mm) | Dilution Factor: | 1.00 | | |
| Soil Extract Volume: (uL) | Soil Aliquot Vol | Lume: | (uL) | |
| | ONCENTRATION UNITS (ug/L or ug/Kg) | | Q | |
| 71-43-2Benzene 100-41-4Ethylbenzene 108-88-3Toluene 1330-20-7Total Xylenes 98-82-8Isopropylbenzene 103-65-1n-Propylbenzene 99-87-6p-Cymene 95-63-61,2,4-Trimethylbenzene 108-67-81,3,5-Trimethylbenzene 104-51-8Butylbenzene 135-98-8sec-Butylbenzene 98-06-6tert-Butylbenzene 91-20-3Naphthalene 1634-04-4Methyl-t-Butyl Ether (MIBE) | | 5 5 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |

Client No.

| Lab Name: SI | IL Buffalo Contract: | | BS-27 (4.5-5.5) |
|--|--|---|---|
| Lab Code: RE | ECNY Case No.: SAS No.: | SDG No.: | |
| Matrix: (soi | il/water) <u>SOIL</u> | Lab Sample ID: | A6D45408 |
| Sample wt/vo | ol: <u>5.16</u> (g/mL) <u>G</u> | Lab File ID: | F3572.RR |
| Level: (lo | ow/med) <u>LOW</u> | Date Samp/Recv: | 11/08/2006 11/10/2006 |
| % Moisture: | not dec. 12 Heated Purge: Y | Date Analyzed: | 11/15/2006 |
| GC Column: <u>I</u> | <u>DB-624</u> ID: <u>0.18</u> (mm) | Dilution Factor: | 1.00 |
| Soil Extract | Volume: (uL) | Soil Aliquot Vol | ume: (uL) |
| CAS | | CONCENTRATION UNITS: (ug/L or ug/Kg) | |
| 100 108 133 98- 103 99- 95- 108 104 135 98- 91- | -43-2Benzene 0-41-4Ethylbenzene 3-88-3Toluene 30-20-7Total Xylenes -82-8Isopropylbenzene 3-65-1p-Cymene -63-61,2,4-Trimethylbenzene 3-67-81,3,5-Trimethylbenzene 4-51-8Butylbenzene 5-98-8sec-Butylbenzene -06-6tert-Butylbenzene 20-3Naphthalene 34-04-4Methyl-t-Butyl Ether (MIBE) | | 6 U U U U U U U U U U U U U U U U U U U |

91-20-3-----Naphthalene 1634-04-4----Methyl-t-Butyl Ether (MIBE)

Client No.

BS-28 (4.0-5.4) Lab Name: STL Buffalo Contract: Lab Code: RECNY Case No.: ____ SAS No.: ___ SDG No.: ____ Matrix: (soil/water) SOIL Lab Sample ID: A6D45407 <u>5.19</u> (g/mL) <u>G</u> Sample wt/vol: Lab File ID: F3571.RR Level: (low/med) Date Samp/Recv: <u>11/08/2006</u> <u>11/10/2006</u> LOW % Moisture: not dec. <u>5</u> Heated Purge: Y Date Analyzed: 11/15/2006 GC Column: <u>DB-624</u> ID: <u>0.18</u> (mm) Dilution Factor: 1.00 Soil Aliquot Volume: ____ (uL) Soil Extract Volume: ____ (uL)

| CAS NO. COMPOUND | CONCENTRATION UN (ug/L or ug/Kg) | | Q |
|--|-------------------------------------|---------------------------------------|------------------|
| 71-43-2Benzene 100-41-4Ethylbenzene 108-88-3Toluene 1330-20-7Total Xylenes 98-82-8Isopropylbenzene 103-65-1 | (ug/L or ug/Kg) | 5 5 5 15 5 5 5 5 | Q ששששש ש |
| 104-51-8n-Butylbenzene 135-98-8sec-Butylbenzene 98-06-6tert-Butylbenzene 91-20-3Naphthalene 1634-04-4Methyl-t-Butyl Ether (MIE | BE) | 5 5 5 5 | บ บ บ บ |

Client No.

BS-30 (0.5-1.1)

| Lab Name | e: <u>STL Buffalo</u> Contra | | BS-30 | (0.5-1. | T) |
|----------|--|--------------------------------|---------------------|-----------------|---------|
| | | | | | |
| Lab Code | E: <u>RECNY</u> Case No.: SAS | No.: SDG No.: | <u> </u> | | |
| Matrix: | (soil/water) SOIL | Lab Sample | ID: <u>A6D454</u> | .04 | |
| Sample w | vt/vol: <u>5.10</u> (g/mL) <u>G</u> | Lab File I | D: <u>F3568</u> . | RR | |
| Level: | (low/med) <u>LOW</u> | Date Samp/ | Recv: <u>11/07/</u> | <u>2006</u> 11/ | 10/2006 |
| % Moistu | re: not dec4 Heated Purge | Y Date Analy | zed: <u>11/15/</u> | 2006 | |
| GC Colum | nn: <u>DB-624</u> ID: <u>0.18</u> (mm) | Dilution F | actor: <u>1</u> . | 00 | |
| Soil Ext | cract Volume: (uL) | Soil Aliqu | ot Volume: _ | (| uL) |
| | CAS NO. COMPOUND | CONCENTRATION (ug/L or ug/K | | Q | |
| | 71-43-2Benzene | | 5 | Ū | |
| | 100-41-4Ethylbenzene | | 5 | ט | İ |
| | 108-88-3Toluene | | 5 | U | |
| | 1133U-2U-7IOCAL AVIERES | | 15 5 | Ŭ | |
| | 98-82-8Isopropylbenzene | | 5 5 | U | |
| | 103-65-1n-Propylbenzene 99-87-6p-Cymene | | 5 | บ | |
| • | 95-63-61,2,4-Trimethylbenz | rene | 5 | U | |
| | 108-67-81,3,5-Trimethylbenz | ene | 5 | Ū | |
| | 1104-51-8n-Butvlbenzene | | 5 | Ū | |
| | 1135-98-8sec-Butvlbenzene | Į. | 5 | Ū | |
| | 98-06-6tert-Butylbenzene | | 5 | U | |
| | 91-20-3Naphthalene | | . 1 | BJ | |
| | 1634-04-4 | | | 1 | 1 |

Client No.

BS-31 (2.0-2.9)
D: A6D45405

Lab Name: STL Buffalo Contract: ____

Lab Code: RECNY Case No.: ____ SAS No.: ___ SDG No.: __

Matrix: (soil/water) SOIL Lab Sample ID: A6D4

Sample wt/vol: $\underline{5.18}$ (q/mL) G Lab File ID: $\underline{F3569.RR}$

Level: (low/med) <u>LOW</u> Date Samp/Recv: <u>11/07/2006</u> <u>11/10/2006</u>

% Moisture: not dec. <u>13</u> Heated Purge: Y Date Analyzed: <u>11/15/2006</u>

GC Column: <u>DB-624</u> ID: <u>0.18</u> (mm) Dilution Factor: <u>1.00</u>

Soil Extract Volume: ____ (uL) Soil Aliquot Volume: ____ (uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) <u>UG/KG</u> Q 71-43-2----Benzene 6 100-41-4----Ethylbenzene U 6 U 108-88-3----Toluene 6 1330-20-7----Total Xylenes 17 U U 98-82-8-----Isopropylbenzene 6 103-65-1---n-Propylbenzene 6 U 99-87-6----p-Cymene_ 6 U 95-63-6----1,2,4-Trimethylbenzene 6 U 6 108-67-8----1,3,5-Trimethylbenzene U 6 U 104-51-8----n-Butylbenzene 135-98-8----sec-Butylbenzene 6 U 98-06-6----tert-Butylbenzene U 6 91-20-3----Naphthalene 6 U 1634-04-4----Methyl-t-Butyl Ether (MIBE) U

Client No.

| - · · | | | | | | Trip B | lank | |
|-----------|--|---|---------------|---------------------------------------|---------|--|-------------|---------|
| Lab Name: | : STL Buffalo | Coni | tract: | · · · · · · · · · · · · · · · · · · · | | <u> </u> | | |
| Lab Code: | : <u>RECNY</u> Cas | e No.: | SAS No.: | SDG No.: | | | | |
| Matrix: | (soil/water) <u>W</u> | ATER | | Lab Sample | i ID: | <u>A6D4540</u> | 9 | |
| Sample wt | :/vol: | 5.00 (g/mL) <u>ML</u> | | Lab File I | D: | F3564.R | R | |
| Level: | (low/med) <u>L</u> | <u>OW</u> | . • | Date Samp/ | Recv: | 11/06/2 | 006 11/1 | L0/2006 |
| % Moistur | re: not dec | Heated Pu | rge: <u>Y</u> | Date Analy | zed: | 11/15/2 | 006 | |
| GC Column | n: <u>DB-624</u> | ID: <u>0.18</u> (mm) | | Dilution F | actor: | 1.0 | <u>0</u> | |
| Soil Extr | cact Volume: _ | (uL) | | Soil Aliqu | ot Voli | ume: | (1 | ıL) |
| . • | CAS NO. | COMPOUND | | CONCENTRATION (ug/L or ug/K | | JG/L | Q | |
| | 95-47-6 1330-20-7 98-82-8 103-65-1 99-87-6 95-63-6 108-67-8 104-51-8 135-98-8 98-06-6 | -Ethylbenzene -Toluene -o-Xylene -m/p-Xylenes -Total Xylenes -Isopropylbenzene -n-Propylbenzene -p-Cymene -1,2,4-Trimethyll -1,3,5-Trimethyll -n-Butylbenzene -sec-Butylbenzene -tert-Butylbenzene -Naphthalene | benzeneeene | | | 1 1 3 1 2 3 1 1 1 1 1 1 | ממממממממ ממ | |
| | 1634-04-4 | -Methyl-t-Butyl | Ether (MIBE) | | | 1 | υ | |

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METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS ANALYSIS DATA SHEET

Client No.

BS-13 (2.0-3.1)

| Lab Name: STL Buffalo | <u>o</u> Cor | ntract: | | B3-13 (2.0-3.1) |
|---------------------------|-----------------------|----------|------------------|-----------------------|
| Lab Code: <u>RECNY</u> Ca | ase No.: | SAS No.: | SDG No.: | • |
| Matrix: (soil/water) | SOIL | • | Lab Sample ID: | A6D45402 |
| Sample wt/vol: | 30.80 (g/mL) <u>G</u> | | Lab File ID: | <u>U17072.RR</u> |
| Level: (low/med) | LOW | | Date Samp/Recv: | 11/07/2006 11/10/2006 |
| % Moisture: <u>11</u> | decanted: (Y/N) | <u>N</u> | Date Extracted: | 11/15/2006 |
| Concentrated Extract | Volume: 1000 (uL) | | Date Analyzed: | 11/16/2006 |
| Injection Volume: | 1.00 (uL) | | Dilution Factor: | 20.00 |
| • | | | | |

GPC Cleanup: (Y/N) N pH: ____

| | CONCENTRATION UNI | TTS: | • |
|--------------------------------|-------------------|--------------|-----|
| CAS NO. COMPOUND | (ug/L or ug/Kg) | <u>UG/KG</u> | Q |
| 83-32-9Acenaphthene | | 7200 | U |
| 120-12-7Anthracene | | 7200 | ע |
| 56-55-3Benzo (a) anthracene | | 380 | J |
| 205-99-2Benzo (b) fluoranthene | 2 | 7200 | ש |
| 207-08-9Benzo (k) fluoranthene | | 7200 | ש |
| 191-24-2Benzo (ghi) perylene | | 7200 | U |
| 50-32-8Benzo (a) pyrene | | 7200 | υ. |
| 218-01-9Chrysene | | 7200 | ַ ע |
| 53-70-3Dibenzo (a,h) anthrace | ne | 7200 | U |
| 206-44-0Fluoranthene | | 410 | J |
| 86-73-7Fluorene | | 7200 | U |
| 193-39-5Indeno(1,2,3-cd)pyre | ne | 7200 | U |
| 85-01-8Phenanthrene | | 7200 | U . |
| 129-00-0Pyrene | | 460 | J |
| 91-20-3Naphthalene | | 7200 | U |

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METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS ANALYSIS DATA SHEET

Client No.

BS-18 (2.0-3.4)

| | | | B3-16 (2.0-3.4) |
|--------------------------|-----------------------|------------------|-----------------------|
| Lab Name: STL Buffal | o Contract: | | |
| Lab Code: <u>RECNY</u> C | ase No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) | SOIL | Lab Sample ID: | A6D45401 |
| Sample wt/vol: | 30.07 (g/mL) <u>G</u> | Lab File ID: | <u>U17071.RR</u> |
| Level: (low/med) | LOW | Date Samp/Recv: | 11/06/2006 11/10/2006 |
| % Moisture: 10 | decanted: (Y/N) N | Date Extracted: | 11/15/2006 |
| Concentrated Extract | : Volume: 1000 (uL) | Date Analyzed: | 11/16/2006 |
| Injection Volume: | 1.00 (uL) | Dilution Factor: | 1.00 |
| | | | |

GPC Cleanup: (Y/N) N pH: _

CONCENTRATION UNITS: Q UG/KG (ug/L or ug/Kg) CAS NO. COMPOUND 370 U 83-32-9----Acenaphthene 370 U 120-12-7----Anthracene J 56-55-3----Benzo (a) anthracene 22 J 23 205-99-2----Benzo (b) fluoranthene U 370 207-08-9----Benzo (k) fluoranthene 370 U 191-24-2----Benzo (ghi) perylene J 21 50-32-8-----Benzo (a) pyrene J 24 218-01-9----Chrysene 370 U 53-70-3-----Dibenzo (a, h) anthracene J 45 206-44-0----Fluoranthene 370 U 86-73-7----Fluorene 370 U 193-39-5----Indeno(1,2,3-cd)pyrene J 26 85-01-8----Phenanthrene_ J 36 129-00-0----Pyrene IJ 370 91-20-3----Naphthalene

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METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS ANALYSIS DATA SHEET

Client No.

BS-21 (4.0-4.5)

| | ~ | | |
|------------------------------------|---------------|------------------|--|
| Lab Name: STL Buffalo | Contract: | <u> </u> | No. of the second secon |
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: | |
| Matrix: (soil/water) SOIL | | Lab Sample ID: | A6D45406 |
| Sample wt/vol:30.38 (g/mL) | <u>G</u> | Lab File ID: | <u>U17076.RR</u> |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 11/08/2006 11/10/2006 |
| % Moisture:8 decanted: (Y | (/N) <u>N</u> | Date Extracted: | 11/15/2006 |
| Concentrated Extract Volume: 1000(| uL) | Date Analyzed: | 11/16/2006 |
| Injection Volume: 1.00 (uL) | | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: | | | |

| CONCENIRATION UNITS: | | | rs: | |
|----------------------|--|-----------------|--------------|---|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/KG</u> | Q |
| 83-32-9 | Acenaphthene | | 350 | υ |
| | Anthracene | | 350 | U |
| 56-55-3 | Benzo (a) anthracene | | 350 | U |
| 205-99-2 | Benzo (b) fluoranthene | | 350 | U |
| 207-08-9 | Benzo(k) fluoranthene | | 350 | U |
| 191-24-2 | Benzo (ghi) perylene | | 350 | U |
| | Benzo (a) pyrene | | 350 | U |
| 218-01-9 | —————————————————————————————————————— | | 350 | U |
| | Dibenzo (a,h) anthracene | | 350 | U |
| I . | Fluoranthene | | 350 | U |
| 86-73-7 | Fluorene | | 350 | U |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | | 350 | U |
| L | Phenanthrene | | 350 | ע |
| 129-00-0 | | | 350 | U |
| | Naphthalene | | 350 | U |

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METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS ANALYSIS DATA SHEET

Client No.

| | BS-22 (2.0-3.0) |
|---|---|
| Lab Name: STL Buffalo Contract: | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: A6D45403 |
| Sample wt/vol: <u>30.20</u> (g/mL) <u>G</u> | Lab File ID: <u>U17073.RR</u> |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: <u>11/07/2006</u> <u>11/10/2006</u> |
| % Moisture: 6 decanted: (Y/N) N | Date Extracted: <u>11/15/2006</u> |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: <u>11/16/2006</u> |
| Injection Volume: 1.00 (uL) | Dilution Factor: 1.00 |
| GPC Cleanup: (Y/N) N pH: | |
| | CONCENTRATION UNITS: |

| CAS NO. | COMPOUND | CONCENTRATION UNIT (ug/L or ug/Kg) | ug/kg | Q |
|----------|--------------------------|---------------------------------------|-------|-----|
| 83-32-9 | Acenaphthene | | 350 | U |
| | Anthracene | | 170 | J |
| 1 | Benzo (a) anthracene | | 400 | |
| | Benzo (b) fluoranthene | | 700 | |
| 207-08-9 | Benzo(k) fluoranthene | | 350 | ע |
| 191-24-2 | Benzo(ghi)perylene | | 200 | J |
| 50-32-8 | Benzo (a) pyrene | | 410 | |
| 218-01-9 | Chrysene | | 400 | |
| 53-70-3 | Dibenzo (a,h) anthracene | | 77 | J |
| 206-44-0 | Fluoranthene | | 780 | |
| 86-73-7 | Fluorene | | 350 | U |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | | 200 | J |
| | Phenanthrene | | 710 | |
| 129-00-0 | Pyrene | | 670 | |
| 91-20-3 | Naphthalene | | 350 | U |
| l . | | | | 1 1 |

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METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS ANALYSIS DATA SHEET

Client No.

| BS-27 (4.5-5.5) | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27 (4.5-5.5) | | BS-27

GPC Cleanup: (Y/N) N pH: ____

Injection Volume: 1.00(uL)

CONCENTRATION UNITS:

Dilution Factor: ____1.00

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|----------|---------------------------|-----------------|-------|---|
| 83-32-9 | Acenaphthene | | 400 | ប |
| | Anthracene | | 400 | U |
| 56-55-3 | Benzo (a) anthracene | | 22 | J |
| ł | Benzo (b) fluoranthene | | 26 | J |
| 207-08-9 | Benzo (k) fluoranthene | | 400 | U |
| 191-24-2 | Benzo(ghi)perylene | | 400 | U |
| 50-32-8 | Benzo (a) pyrene | | 400 | U |
| 218-01-9 | Chrysene | | 400 | U |
| 53-70-3 | Dibenzo (a, h) anthracene | | 400 | U |
| 206-44-0 | Fluoranthene | | 400 | U |
| 86-73-7 | Fluorene | | 400 | U |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | | 400 | U |
| | Phenanthrene | | 400 | U |
| 129-00-0 | Pyrene | | 400 | U |
| | Naphthalene | | 400 | U |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS ANALYSIS DATA SHEET

Client No.

 Lab Name: STL Buffalo
 Contract:
 BS-28 (4.0-5.4)

 Lab Code: RECNY
 Case No.:
 SAS No.:
 SDG No.:

 Matrix: (soil/water)
 SOIL
 Lab Sample ID:
 A6D45407

 Sample wt/vol:
 30.56 (g/mL) G
 Lab File ID:
 U17077.RR

 Level:
 (low/med)
 Low
 Date Samp/Recv:
 11/08/2006 11/10/2006

 % Moisture:
 9
 decanted:
 (Y/N) N
 Date Extracted:
 11/15/2006

 Concentrated Extract Volume:
 1000 (uL)
 Date Analyzed:
 11/16/2006

 Injection Volume:
 1.00 (uL)
 Dilution Factor:
 1.00

GPC Cleanup: (Y/N) N pH: ____

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|------------------|---------------------------|-----------------|-------|---|
| 83-32-9 | Acenaphthene | | 360 | U |
| 120-12-7 | | | 360 | U |
| 56 - 55-3 | Benzo (a) anthracene | | 26 | J |
| 205-99-2 | Benzo (b) fluoranthene | | 31 | J |
| 207-08-9 | Benzo (k) fluoranthene | | 360 | ט |
| 191-24-2 | Benzo (ghi) perylene | | 360 | U |
| | Benzo (a) pyrene | | 360 | U |
| 218-01-9 | | | 30 | J |
| | Dibenzo (a, h) anthracene | | 360 | U |
| | Fluoranthene | | 30 | J |
| 86-73-7 | Fluorene | | 360 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | | 360 | U |
| 85-01-8 | | | 360 | U |
| 129-00-0 | Pyrene | | 32 | J |
| 91-20-3 | Naphthalene | | 360 | U |
| | | 1 | | |

LABELLA ASSOCIATES

METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS ANALYSIS DATA SHEET

Client No.

BS-30 (0.5-1.1)

| Lab Name: <u>STL Buffalo</u> | Contract: | | | |
|------------------------------------|--------------|-------------------|------------------|------------|
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: | | |
| Matrix: (soil/water) SOIL | | Lab Sample ID: | A6D45404 | |
| Sample wt/vol: 30.53 (g/mL) | <u>G</u> | Lab File ID: | <u>U17074.RR</u> | |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 11/07/2006 | 11/10/2006 |
| % Moisture:7 decanted: (Y/ | /N) <u>N</u> | Date Extracted: | 11/15/2006 | |
| Concentrated Extract Volume: 1000(| uL) | Date Analyzed: | 11/16/2006 | |
| Injection Volume: 1.00 (uL) | | Dilution Factor: | 20.00 | |
| GPC Cleanup: (Y/N) N pH: | | | | |
| | | CENTRATION UNITS: | ra Irra | ^ |

| CAS NO. | COMPOUND | CONCENTRATION UN (ug/L or ug/Kg) | ITS: UG/KG | Q |
|----------|--------------------------|-------------------------------------|---------------|----------|
| CAS NO. | COMPOUND | (ug/ii or ug/ng/ | 00/105 | <u> </u> |
| 83-32-9 | Acenaphthene | | 440 | J |
| | Anthracene | | 5600 | J |
| | Benzo (a) anthracene | | 20000 | |
| | Benzo (b) fluoranthene | | 27000 | |
| 207-08-9 | Benzo(k) fluoranthene | | 11000 | |
| 191-24-2 | Benzo(ghi)perylene | | 10000 | |
| 50-32-8 | Benzo(a)pyrene | | 21000 | |
| 218-01-9 | Chrysene | | 18000 | |
| 53-70-3 | Dibenzo(a,h)anthracene | | 3300 | J |
| 206-44-0 | Fluoranthene | | 38000 | |
| 86-73-7 | Fluorene | | 2400 | J |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | | 9500 | |
| 85-01-8 | Phenanthrene | | 16000 | |
| 129-00-0 | | | 30000 | |
| 91-20-3 | Naphthalene | | 1900 | J |
| 1 | | 1 | | i |

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METHOD 8270 - SOIL - STARS BASE NEUTRAL COMPOUNDS ANALYSIS DATA SHEET

Client No.

| | | | | BS-31 (2.0-2.9) |
|-----------------------------|-----------------|-------------|------------------|-----------------------|
| Lab Name: <u>STL Buffal</u> | 2 | Contract: | , | |
| Lab Code: <u>RECNY</u> Ca | ase No.: | SAS No.: | SDG No.: | |
| Matrix: (soil/water) | SOIL | | Lab Sample ID: | A6D45405 |
| Sample wt/vol: | 30.87 (g/mL) | <u>g</u> _ | Lab File ID: | <u>U17075.RR</u> |
| Level: (low/med) | TOM | | Date Samp/Recv: | 11/07/2006 11/10/2006 |
| % Moisture: <u>17</u> | decanted: (Y/ | и) <u>й</u> | Date Extracted: | 11/15/2006 |
| Concentrated Extract | Volume: 1000 (u | L) | Date Analyzed: | 11/16/2006 |
| Injection Volume: | 1.00 (uL) | • | Dilution Factor: | 5.00 |

GPC Cleanup: (Y/N) N pH: _

| · | CONCENTRATION UN | ITS: | |
|----------------------------------|------------------|-------|----|
| CAS NO. COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
| 83-32-9Acenaphthene | | 1900 | U |
| 120-12-7Anthracene | | 1900 | U |
| 56-55-3Benzo (a) anthracene | | 1900 | U |
| 205-99-2Benzo (b) fluoranthene | | 1900 | U |
| 207-08-9Benzo(k) fluoranthene | | 1900 | שׁ |
| 191-24-2Benzo (ghi) perylene | | 1900 | U |
| 50-32-8Benzo (a) pyrene | | 1900 | U |
| 218-01-9Chrysene | | 1900 | U |
| 53-70-3Dibenzo(a,h)anthracene | | 1900 | υ |
| 206-44-0Fluoranthene | | 1900 | ש |
| 86-73-7Fluorene | | 1900 | U |
| 193-39-5Indeno (1,2,3-cd) pyrene | | 1900 | U |
| 85-01-8Phenanthrene | | 1900 | U |
| 129-00-0Pyrene | | 1900 | U |
| 91-20-3Naphthalene | | 1900 | Ū |

-1-INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D454

Method Type:

Sample ID: A6D45402

Client ID: BS-13 (2.0-3.1)

Matrix: SOIL

Date Received:

11/10/2006

Date Collected:

11/7/2006

Level:

LOW

% Solids: 89

Sample Wt/Vol:

0.5

Final Vol:

50.0

Prep Batch ID:

A6B30136

Prep Date:

11/14/2006

| | | Analytical | | | | | | | | | |
|----------|---------------------|------------|------|-------|-------|-----|------------|----------|-------------|----------|----|
| Analyte | Concentration Units | C | Qual | RL | RL | Dil | Date | Time | Instrument | Run | M |
| Arsenic | 2.3 mg/Kg | | | 2.1 | 2.1 | 1 | 11/15/2006 | 13:45 | SUPERTRACE2 | A11150x | P |
| Cadmium | 0.26 mg/Kg | | | 0.21 | 0.21 | 1 | 11/15/2006 | 13:45 | SUPERTRACE2 | A11150x | P |
| Chromium | 4.6 mg/Kg | | E | 0.54 | 0.54 | 1 | 11/15/2006 | 13:45 | SUPERTRACE2 | A11150x | P |
| Mercury | 0.065 mg/Kg | | | 0.020 | 0.020 | 1 | 11/14/2006 | 12:03:13 | LEEMAN PS2 | L21114SY | CV |

-1-INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D454

Method Type:

Sample ID: A6D45401

Client ID: BS-18 (2.0-3.4)

Matrix: SOIL

Date Received:

11/10/2006

Date Collected:

11/6/2006

Level:

LOW

% Solids: 90

Sample Wt/Vol:

0.6

Final Vol:

50.0

Prep Batch ID:

A6B30136

Prep Date:

11/14/2006

| | | | | | | | Analy | vtical | | | |
|----------|---------------------|---|------|-------|-------|-----|------------|----------|-------------|----------|----|
| Analyte | Concentration Units | C | Qual | RL | · RL | Dil | Date | Time | Instrument | Run | M |
| Arsenic | 5.1 mg/Kg | | | 2.0 | 2.0 | 1 | 11/15/2006 | 13:30 | SUPERTRACE2 | A11150x | P |
| Cadmium | 0.27 mg/Kg | | | 0.20 | 0.20 | 1 | 11/15/2006 | 13:30 | SUPERTRACE2 | A11150x | P |
| Chromium | 3.9 mg/Kg | | E | 0.50 | 0.50 | 1 | 11/15/2006 | 13:30 | SUPERTRACE2 | A11150x | P |
| Mercury | 0.024 mg/Kg | | | 0.019 | 0.019 | 1 | 11/14/2006 | 11:58:16 | LEEMAN PS2 | L21114SY | CV |

-1-INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D454

Method Type:

Sample ID: A6D45406

Client ID: BS-21 (4.0-4.5)

Matrix: SOIL

Date Received:

11/10/2006

Date Collected:

11/8/2006

Level:

LOW

% Solids: 92

Sample Wt/Vol:

0.6

Final Vol:

50.0

Prep Batch ID:

A6B30136

Prep Date:

11/14/2006

| | | ············ | | | | | | Analy | tical | | | |
|----------|---|---------------------|---|------|---------------|-------|-----|------------|----------|-------------|----------|------------|
| Analyte | | Concentration Units | C | Qual | \mathbf{RL} | RL | Dil | Date | Time | Instrument | Run | M |
| Arsenic | < | 2.0 mg/Kg | U | | 2.0 | 2.0 | 1 | 11/15/2006 | 14:04 | SUPERTRACE2 | A11150x | P |
| Cadmium | < | 0.20 mg/Kg | U | | 0.20 | 0.20 | 1 | 11/15/2006 | 14:04 | SUPERTRACE2 | A11150x | P . |
| Chromium | | 1.4 mg/Kg | | E | 0.49 | 0.49 | 1 | 11/15/2006 | 14:04 | SUPERTRACE2 | A11150x | P |
| Mercury | < | 0.019 mg/Kg | U | | 0.019 | 0.019 | 1 | 11/14/2006 | 12:09:18 | LEEMAN PS2 | L21114SY | CV |

- 1 -INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D454

Method Type:

Sample ID: A6D45403

Client ID: BS-22 (2.0-3.0)

Matrix:

SOIL

Date Received:

11/10/2006

Date Collected:

11/7/2006 Level: LOW

% Solids: 94

Sample Wt/Vol:

0.6

Final Vol:

50.0

Prep Batch ID:

A6B30136

Prep Date:

11/14/2006

| | | | | | | | | Analy | ytical | | | |
|----------|---|---------------------|---|------|---------------|---------------|-----|------------|----------|-------------|----------|----|
| Analyte | | Concentration Units | C | Qual | \mathbf{RL} | \mathbf{RL} | Dil | Date | Time | Instrument | Run | M |
| Arsenic | < | 1.9 mg/Kg | U | | 1.9 | 1.9 | 1 | 11/15/2006 | 13:50 | SUPERTRACE2 | A11150x | P |
| Cadmium | < | 0.19 mg/Kg | U | | 0.19 | 0.19 | 1 | 11/15/2006 | 13:50 | SUPERTRACE2 | A11150x | P |
| Chromium | | 1.4 mg/Kg | | E | 0.48 | 0.48 | 1 | 11/15/2006 | 13:50 | SUPERTRACE2 | A11150x | P |
| Mercury | | 0.021 mg/Kg | | | 0.016 | 0.016 | 1 | 11/14/2006 | 12:04:36 | LEEMAN PS2 | L21114SY | CV |

- 1 -INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D454

Method Type:

Sample ID: A6D45408

Client ID: BS-27 (4.5-5.5)

Matrix: SOIL

Date Received:

11/10/2006

Date Collected: 11/8/2006

Level:

LOW

% Solids: 82

Sample Wt/Vol:

0.5

Final Vol:

50.0

Prep Batch ID:

A6B30136

Prep Date:

11/14/2006

| | | | | 717 | | | Analy | ytical | | • | |
|----------|---------------------|---|------|-------|-------|-----|------------|----------|-------------|----------|----|
| Analyte | Concentration Units | C | Qual | RL | RL | Dil | Date | Time | Instrument | Run | M |
| Arsenic | 18.7 mg/Kg | | | 2.4 | 2.4 | 1 | 11/15/2006 | 14:25 | SUPERTRACE2 | A11150x | P |
| Cadmium | 2.7 mg/Kg | | • | 0.24 | 0.24 | 1 | 11/15/2006 | 14:25 | SUPERTRACE2 | A11150x | P |
| Chromium | 62.6 mg/Kg | | E | 0.60 | 0.60 | 1 | 11/15/2006 | 14:25 | SUPERTRACE2 | A11150x | P |
| Mercury | 0.030 mg/Kg | | | 0.020 | 0.020 | 1 | 11/14/2006 | 12:14:17 | LEEMAN PS2 | L21114SY | CV |

-1-INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D454

Method Type:

Sample ID: A6D45407

Client ID: BS-28 (4.0-5.4)

Matrix: SOIL

Date Received:

11/10/2006

Date Collected:

11/8/2006 Level: LOW

% Solids: 91

Sample Wt/Vol:

0.5

Final Vol:

50.0

Prep Batch ID:

A6B30136

Prep Date:

11/14/2006

| | | | | | | | | Analy | ytical | | | |
|----------|---|---------------------|---|------|---------------|-------|-----|------------|----------|-------------|----------|----|
| Analyte | | Concentration Units | C | Qual | \mathbf{RL} | RL | Dil | Date | Time | Instrument | Run | M |
| Arsenic | < | 2.2 mg/Kg | U | | 2.2 | 2.2 | 1 | 11/15/2006 | 14:09 | SUPERTRACE2 | A11150x | P |
| Cadmium | < | 0.22 mg/Kg | U | | 0.22 | 0.22 | 1 | 11/15/2006 | 14:09 | SUPERTRACE2 | A11150x | P |
| Chromium | | 1.7 mg/Kg | | E | 0.54 | 0.54 | 1 | 11/15/2006 | 14:09 | SUPERTRACE2 | A11150x | P |
| Mercury | | 0.186 mg/Kg | | | 0.019 | 0.019 | 1 | 11/14/2006 | 12:10:39 | LEEMAN PS2 | L21114SY | CV |

INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D454

Method Type:

Sample ID: A6D45404

Client ID: BS-30 (0.5-1.1)

Matrix: SOIL

Date Received:

11/10/2006

Date Collected:

11/7/2006

Level:

LOW

% Solids: 93

Sample Wt/Vol:

0.5

Final Vol:

50.0

Prep Batch ID:

A6B30136

Prep Date:

11/14/2006

| | | | , | | | | | Analy | ytical | | | |
|----------|---|---------------------|---|------|---------------|---------------|-----|------------|----------|-------------|----------|----|
| Analyte | | Concentration Units | C | Qual | \mathbf{RL} | \mathbf{RL} | Dil | Date | Time | Instrument | Run | M |
| Arsenic | | 4.8 mg/Kg | | | 2.1 | 2.1 | 1 | 11/15/2006 | 13:54 | SUPERTRACE2 | A11150x | P |
| Cadmium | < | 0.21 mg/Kg | U | | 0.21 | 0.21 | 1 | 11/15/2006 | 13:54 | SUPERTRACE2 | A11150x | P |
| Chromium | | 7.2 mg/Kg | | E | 0.53 | 0.53 | 1 | 11/15/2006 | 13:54 | SUPERTRACE2 | A11150x | P |
| Mercury | | 0.038 mg/Kg | | | 0.017 | 0.017 | 1 | 11/14/2006 | 12:05:56 | LEEMAN PS2 | L21114SY | CV |

-1-INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D454

Method Type:

Sample ID: A6D45405

Client ID: BS-31 (2.0-2.9)

Matrix: SOIL

Date Received:

11/10/2006

Date Collected:

11/7/2006

Level: LOW

% Solids: 83

Sample Wt/Vol:

0.5

Final Vol:

50.0

Prep Batch ID:

A6B30136

Prep Date:

11/14/2006

| | | Analytical | | | | | | | | | |
|----------|---------------------|------------|---------|-------|-------|-----|------------|----------|-------------|----------|----|
| Analyte | Concentration Units | C | Qual | RL | RL | Dil | Date | Time | Instrument | Run | M |
| Arsenic | 18.5 mg/Kg | | | 2.2 | 2.2 | 1 | 11/15/2006 | 13:59 | SUPERTRACE2 | A11150x | P |
| Cadmium | 1.8 mg/Kg | | | 0.22 | 0.22 | 1 | 11/15/2006 | 13:59 | SUPERTRACE2 | A11150x | P |
| Chromium | 39.0 mg/Kg | | ${f E}$ | 0.56 | 0.56 | 1 | 11/15/2006 | 13:59 | SUPERTRACE2 | A11150x | P |
| Mercury | 0.025 mg/Kg | | | 0.021 | 0.021 | 1 | 11/14/2006 | 12:07:47 | LEEMAN PS2 | L21114SY | CV |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - STARS LIST WATER SURROGATE RECOVERY

| Lab Name: STL Buffalo | | Contract: | |
|-----------------------|-----------|-----------|----------|
| Lab Code: RECNY | Case No.: | SAS No.: | SDG No.: |
| | | | |

| | Client Sample ID | Lab Sample ID | | DCE %REC # | TOL %REC # | 222222 | 22222 | ===== | 2555575 | TOT OUT ==== |
|---|-------------------------------|--------------------------------------|-------------------|----------------|-------------------|--------|-------|-------|---------|--------------------|
| 2 | MSB93 Trip Blank VBLK93 | A6B3034803 A6D45409 A6B3034804 | 108 104 105 | 94 94 97 | 104 102 103 | | | | · | 0 0 |

QC LIMITS

(73-120) (72-143) (76-122) p-Bromofluorobenzene 1,2-Dichloroethane-D4 BFB DCE TOL = Toluene-D8

[#] Column to be used to flag recovery values* Values outside of contract required QC limitsD Surrogates diluted out

STL Buffalo

0 Hazelwood Drive Suite 106

Amherst, NY 14288

shone 716-691-2600 fax 716-691-7991

Chain of Custody Record

SEVERN

6.20 Severn Trent Laboratories, Inc. Sample Specific Notes: S iample Disposal (A fee may be assessed if samples are retained longer than 1 month) // -/ 0 - 06 Date/Time: HCl Preservative Date/Time: Date/Time: COC No: SDG No. Company: 90-von-06 Carrier: Lab Courier Company: Company: Site Contact: Craig A. Stiles Lab Contact: Jason Kikalski × × × × × × × × Received by: No X X × No X No X X No X X X X on No X No X N (8279C) STARS Only ×°Z AOC? (8790B) STARS Only ž Date/Time: X Unknown Conf. -ASP Category B Deliverables Date/Time: Matrix Water Soil Soil Soil Soil Soil Soil Soil Soil Analysis Turnaround Time Project Manager: Mr. Dennis Porter Tel/Fax: (585) 454-6110 / 454-3066 Calendar (C) or Work Days (W) 6-Nov-06 06.3C DI Water Sample Type Poison B Soil Soil Soil Soil Soil TAT if different from Below Soil Soil Soil Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6=Other Standard 2 weeks 2 days day Company: LaBella Associates, P.C. Sample 0715 1322 1005 0755 1012 1430 0742 1053 Skin Irritant Sample Date 90-voN-9 90-vov-6 Company: 7-Nov-06 7-Nov-06 7-Nov-06 8-Nov-06 8-Nov-06 Company: 7-Nov-06 Special Instructions/QC Requirements & Comments: Phone FAX Flammable Site: Port of Rochester, Rochester, NY BS-13 (2.0' to 3.1') BS-27 (4.5' to 5.5') Sample Identification BS-18 (2.0' to 3.4') BS-22 (2.0' to 3.0') BS-30 (0.5' to 1.1') BS-31 (2.0' to 2.9') BS-21 (4.0' to 4.5') BS-28 (4.0' to 5.4') P O # 206377 Phases 2a & 2b Cllent Contact Trip Blank Rochester, New York 14614 100 State Street, Suite 201 (585) 454-3066 Project Name: Port Marina aBella Associates, P.C. Non-Hazard Relinguished by: 585) 454-6110 Relinquished by: elinguished by:



STL Buffalo 10 Hazelwood Drive, Suite 106 Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991 www.stl-inc.com

ANALYTICAL REPORT

Job#: <u>A06-D768</u>

STL Project#: NY2A8951.6

Site Name: <u>IaBella Associates</u>
Task: Proposed Port Marina

Mr. Dan Noll LaBella Associates 300 State St. Suite 201 Rochester, NY 14614

STL Buffalo

Jason R. Kacalski Project Manager

12/06/2006

Sample Data Summary Package

SAMPLE SUMMARY

| | | • | SAMPI | ED | RECEIVE | ED . |
|---------------|------------------|--------|------------|-------|------------|-------|
| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | DATE | TIME | DATE | TIME |
| A6D76801 | MW-BH5 | WATER | 11/15/2006 | 14:42 | 11/16/2006 | 16:20 |
| A6D76802 | MW-BH5 | WATER | 11/15/2006 | 14:42 | 11/16/2006 | 16:20 |
| A6D76803 | MW-BH6 | WATER | 11/15/2006 | 12:25 | 11/16/2006 | 16:20 |
| A6D76804 | MW-BH6 | WATER | 11/15/2006 | 13:25 | 11/16/2006 | 16:20 |
| A6D76805 | MW-BS5 | WATER | 11/15/2006 | 14:20 | 11/16/2006 | 16:20 |
| A6D76806 | MW-BS5 | WATER | 11/15/2006 | 15:25 | 11/16/2006 | 16:20 |
| A6D76807 | MW-BS6 | WATER | 11/15/2006 | 11:00 | 11/16/2006 | 16:20 |
| A6D76808 | MW-BS6 | WATER | 11/15/2006 | 12:20 | 11/16/2006 | 16:20 |
| A6D76809 | TRIP BLANK | WATER | 11/15/2006 | | 11/16/2006 | 16:20 |

METHODS SUMMARY

Job#: <u>A06-D768</u>

STL Project#: NY2A8951.6
Site Name: LaBella Associates

| PARAMETER | ANALYTICAL METHOD |
|--|----------------------|
| METHOD 8260 - TCL VOLATILE ORGANICS | SW8463 8260 |
| | |
| METHOD 8270 - TCL SEMI-VOLATILE ORGANICS | SW8463 8270 |
| METHOD 8081 - TCL PESTICIDES | SW8463 8081 |
| METHOD 8082 - POLYCHLORINATED BIPHENYLS | SW8463 8082 |
| Aluminum - Total | SW8463 6010 |
| Antimony - Total | SW8463 6010 |
| Arsenic - Total | <i>S</i> W8463 6020 |
| Barium - Total | SW8463 6010 |
| Beryllium - Total | <i>S</i> W8463 6010 |
| Cadmium - Total | SW8463 6010 |
| Calcium - Total | SW8463 6010 |
| Chromium - Total | SW8463 6010 |
| Cobalt - Total | SW8463 6010 |
| Copper - Total | SW8463 6010 |
| Iron - Total | SW8463 6010 |
| Lead - Total | SW8463 6020 |
| Magnesium - Total | SW8463 6010 |
| Manganese - Total | SW8463 6010 |
| Mercury - Total | SW8463 7470 |
| Nickel - Total | SW8463 6010 |
| Potassium - Total | SW8463 6010 |
| Selenium - Total | SW8463 6010 |
| Silver - Total | SW8463 6010 |
| Sodium - Total | SW8463 6010 |
| Thallium - Total | SW8463 6010 |
| Vanadium - Total | SW8463 6010 |
| Zinc - Total | SW8463 6010 |

References:

SW8463

"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A06-D768

STL Project#: NY2A8951.6

Site Name: <u>LaBella Associates</u>

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-D768

Sample Cooler(s) were received at the following temperature(s); $4.1\ ^{\circ}$ C All samples were received in good condition.

GC/MS Volatile Data

Initial calibration standard curve A6I0002170-1 exhibited a percent Relative Standard Deviation (%RSD) of greater than 15% for compounds Methylene Chloride, Bromoform and Dichlorodifluoromethane. However, the overall mean RSD of all compounds is 8.20%.

Initial calibration standard curve A6I0002183-1 exhibited a percent Relative Standard Deviation (%RSD) of greater than 15% for several compounds. However, the overall mean RSD of all compounds is 7.94%.

Samples MW-BH5 and MW-BS6 were analyzed from vials containing headspace due to insufficient volume because of reanalyses for suspected carryover from previous samples.

All samples were preserved to a pH less than 2.

The analytes Acetone, Bromodichloromethane and Chloroform were detected in the TRIP BLANK at a level above the reporting limit. The analyte Dibromochloromethane was detected in the TRIP BLANK at a level below the project established reporting limit. Bromodichloromethane and Dibromochloromethane were not detected in any of the associated samples.

GC/MS Semivolatile Data

Initial calibration standard curve A6I0002175 exhibited the %RSD of the compounds Bis(2-chloroethyl) ether, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, and Pentachlorophenol as greater than 15%. However, the mean RSD of all compounds is 6.47%.

GC Extractable Data

For method 8081, several compounds exhibited a percent difference greater than 15% from the expected amount in the associated continuing calibrations. The average of all analytes is within 15% and the associated laboratory quality control recoveries are compliant. No corrective action was required.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Date: 12/06/2006 Time: 15:57:02

Dilution Log w/Code Information For Job A06-D768

8/1737_{Page:}

Rept: AN1266R

| Client Sample ID | Lab Sample ID | Parameter (Inorganic)/Method (Organic) | <u>Dilution</u> | Code |
|------------------|---------------|--|-----------------|------|
| MW-BH5 | A6D76801 | Sodium ~ Total | 5.00 | 800 |
| MW-BS5 | A6D76805 | Sodium - Total | 5.00 | 800 |

Dilution Code Definition:

002 - sample matrix effects

003 - excessive foaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- indicates coelution.
- Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

| Iah Name | · STT. Buffalo | Contract: | | MW-BH5 | | |
|----------|--------------------|------------------------------|---------------------|------------------|----------------|---------|
| Lab Name | . SIN BULLATO | Concract: | <u> </u> | | | |
| Lab Code | : <u>RECNY</u> Cas | se No.: | SDG No.: | | | |
| Matrix: | (soil/water) W | ATER | Lab Sample ID: | A6D7680 | 2 | |
| Sample w | t/vol: _ | 5.00 (g/mL) <u>M</u> L | Lab File ID: | <u>Q6882.R</u> | R | |
| Level: | (low/med) <u>L</u> | <u>OW</u> | Date Samp/Recv | : <u>11/15/2</u> | <u>006 11/</u> | 16/2006 |
| % Moistu | re: not dec | Heated Purge: N | Date Analyzed: | 11/29/2 | <u>006</u> | |
| GC Colum | n: <u>DB-624</u> | ID: <u>0.18</u> (mm) | Dilution Factor | r: <u>1.0</u> | <u>o</u> | |
| Soil Ext | ract Volume: _ | (uL) | Soil Aliquot Vo | olume: | | uL) |
| | | | CONCENTRATION UNITS | S: | | |
| | CAS NO. | COMPOUND | (ug/L or ug/Kg) | | Q | |
| | 67-64-1 | -Acetone | | 2.8 | J | |
| | 71-43-2 | -Benzene | | 1.0 | ั บิ | |
| | 75-27-4 | -Bromodichloromethane | | 1.0 | ט | |
| | 75-25-2 | -Bromoform | | 1.0 | U | |
| | 74-83-9 | -Bromomethane | | 1.0 | U | |
| | 78-93-3 | -2-Butanone | | 5.0 | บั | |
| | | -Carbon Disulfide | | 1.0 | Ū | |
| • | 56-23-5 | -Carbon Tetrachloride | | 1.0 | Ü | ļ. |
| * | 108-90-7 | -Chlorobenzene | | 1.0 | Ū | |
| | 75-00-3 | -Chloroethane | | 1.0 | U | |
| * 4 | 67-66-3 | | | 1.0 | ט | |
| | | Chloromethane | | 1.0 | Ū | |
| • | | | | 1.0 | Ü | |
| | 110-82-7 | Cyclorexame | | | 3 | |
| | 106-93-4 | -1,2-Dibromoethane | | 1.0 | U | |
| | | -Dibromochloromethane | | 1.0 | U | |
| | | -1,2-Dibromo-3-chloropropane | | 1.0 | U | |
| | | -1,2-Dichlorobenzene | | 1.0 | U | ļ |
| | | -1,3-Dichlorobenzene | <u> </u> | 1.0 | U | |
| | | -1,4-Dichlorobenzene | | 1.0 | U | |
| | B . | -Dichlorodifluoromethane | | 1.0 | U | İ |
| | | -1,1-Dichloroethane | | 1.0 | U | |
| | | -1,2-Dichloroethane | | 1.0 | U | |
| | | -1,1-Dichloroethene | <u></u> | 1.0 | U | |
| | | -cis-1,2-Dichloroethene | | 1.0 | U | |
| | 1 | -trans-1,2-Dichloroethene | | 1.0 | U | |
| | | -1,2-Dichloropropane | | 1.0 | U | |
| | | -cis-1,3-Dichloropropene | | 1.0 | U | 1 |
| | | -trans-1,3-Dichloropropene | | 1.0 | U | |
| | | -Ethylbenzene | | 1.0 | U | |
| | 591-78-6 | | | 5.0 | U | |
| | | -Isopropylbenzene | · · · · · | 1.0 | U | |
| | | -Methyl acetate | | 1.0 | U | |
| | | -Methylcyclohexane | | 1.0 | U | |
| | 75 00 0 | Modeler of area also assists | 1 | 1 0 | 1 | 1 |

| | | | | MW-BH5 | | |
|-----------|-----------------------|---|-----------------------------------|---------------------|----------|---------|
| Lab Name: | : <u>STL Buffalo</u> | Contract: | | L | | |
| Lab Code: | : <u>RECNY</u> Cas | se No.: SAS No.: | SDG No.: _ | | | |
| Matrix: | (soil/water) <u>[</u> | NATER | Lab Sample | ID: <u>A6D7680</u> | 2 | |
| Sample wt | :/vol: | <u>5.00</u> (g/mL) <u>ML</u> | Lab File ID | Q6882.R | R | |
| Level: | (low/med) | LOW | Date Samp/Re | ecv: <u>11/15/2</u> | 006 11/ | L6/2006 |
| % Moistu | re: not dec. | Heated Purge: N | Date Analyze | ed: <u>11/29/2</u> | 006 | |
| GC Column | n: <u>DB-624</u> | ID: <u>0.18</u> (mm) | Dilution Fac | etor:1.0 | <u>o</u> | |
| Soil Exti | ract Volume: | (uL) | Soil Aliquot | Volume: | (1 | ıL) |
| | CAS NO. | COMPOUND | CONCENTRATION U (ug/L or ug/Kg | | Q | |
| • | 1634-04-4 | 4-Methyl-2-pentanone Methyl-t-Butyl Ether (MTBE) | | 5.0 1.0 | U U | |
| | 100-42-5 79-34-5 | Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethene | · · | 1.0 1.0 1.0 | U U | |
| | 108-88-3 | | | 1.0 | Ū U | |
| | 71-55-6 | 1 1 1_Trichlomothane | | 1.0 | U U | |
| · | 76-13-1 | 1,1,2-Trichloro-1,2,2-triflu Trichlorofluoromethane | | 1.0 1.0 | ប ប | |
| | 79-01-6 | Trichloroethene Vinyl chloride | | 1.0 1.0 | บ บ | |
| | | Total Virlance | | 3.0 | ITT | 1 |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| | | | | MW-BH5 | | |
|-----------|---------------------------|--------------------|--------------|----------------------------------|----------------|-------------|
| Lab Name: | STL Buffalo | Contract: | - | <u> </u> | * | <u></u> |
| Lab Code: | RECNY Case No. | : SAS No.: | SDG No.: _ | | | |
| Matrix: | (soil/water) <u>WATER</u> | | Lab Sampl | Le ID: <u>A6D768</u> | 802 | |
| Sample wt | :/vol: |) (g/mL) <u>ML</u> | Lab File | ID: <u>06882</u> . | RR | |
| Level: | (low/med) <u>LOW</u> | | Date Samp |)/Recv: <u>11/15/</u> | <u>2006 1</u> | 1/16/2006 |
| % Moistur | re: not dec | | Date Anal | Lyzed: <u>11/29/</u> | <u>′2006</u> | |
| GC Column | n: <u>DB-624</u> ID: | : <u>0.18</u> (mm) | Dilution | Factor:1. | 00 | |
| Soil Exti | cact Volume: | (uL) | Soil Aliq | quot Volume: | | (uL) |
| Number Ti | ICs found: 0 | | CONCENTRATI | ION UNITS: ug/Kg) <u>UG/L</u> | _ . | |
| | CAS NO. | Compound Name | RT | Est. Conc. | Q |]. : |
| | | | | | | 1 |

| rah atau | om p.ee.3 | Gautan et | | MW-BH6 | |
|-----------|---|---|--|--|----------|
| Lad Name: | SIL BUITALO | Contract: | | | |
| Lab Code: | <u>RECNY</u> Cas | se No.: SAS No.: | SDG No.: | | |
| Matrix: (| (soil/water) <u>W</u> | <u>IATER</u> | Lab Sample ID: | A6D76804 | |
| Sample wt | :/vol: | 5.00 (g/mL) <u>M</u> L | Lab File ID: | <u>Q6871.RR</u> | |
| Level: | (low/med) \underline{I} | <u>w</u> | Date Samp/Recv | : <u>11/15/2006</u> <u>11/16/200</u> | <u>6</u> |
| % Moistur | re: not dec | Heated Purge: N | Date Analyzed: | 11/28/2006 | |
| GC Column | n: <u>DB-624</u> | ID: <u>0.18</u> (mm) | Dilution Factor | r: <u>1.00</u> | |
| Soil Exti | ract Volume: _ | (uL) | Soil Aliquot Vo | olume: (uL) | |
| | | | | | |
| : | CAS NO. | COMPOUND | CONCENTRATION UNITS (ug/L or ug/Kg) | | |
| | 108-10-1 1634-04-4 100-42-5 79-34-5 127-18-4 108-88-3 120-82-1 71-55-6 | -4-Methyl-2-pentanone -Methyl-t-Butyl Ether (MTBE) -Styrene -1,1,2,2-Tetrachloroethane -Tetrachloroethene -Toluene -1,2,4-Trichlorobenzene -1,1,1-Trichloroethane | (ug/L or ug/Kg) | 5.0 U 1.0 U 1.0 U 1.0 U 1.0 U 0.54 J 1.0 U | |
| | 108-10-1 1634-04-4 100-42-5 79-34-5 127-18-4 108-88-3 71-55-6 79-00-5 76-13-1 75-69-4 79-01-6 | -4-Methyl-2-pentanone -Methyl-t-Butyl Ether (MTBE) -Styrene -1,1,2,2-Tetrachloroethane -Tetrachloroethene -Toluene -1,2,4-Trichlorobenzene | (ug/L or ug/Kg) | 5.0 U 1.0 U 1.0 U 1.0 U 1.0 U 0.54 J 1.0 U | |

| . 1 | · | _ | | | MW-BH6 | 5 | |
|-----------|------------------|-----------------|---------------------------------------|-----------------|---------------------|-----------|-----------|
| Lab Name: | STL Buffa | alo | Contract: | | | | |
| Lab Code: | RECNY | Case No.: _ | SAS No.: | SDG No.: _ | | | |
| Matrix: (| (soil/wate | r) <u>WATER</u> | | Lab Sample | ID: <u>A6D7680</u> |)4 | |
| Sample wt | :/vol: | <u>5.00</u> (g | J/mL) ML | Lab File ID | : <u>Q6871.</u> F | R. | |
| Level: | (low/med) | LOW | | Date Samp/R | ecv: <u>11/15/2</u> | 2006 11/1 | 6/2006 |
| % Moistur | re: not de | c H | Meated Purge: N | Date Analyz | ed: <u>11/28/2</u> | 2006 | |
| GC Column | n: <u>DB-624</u> | ID: <u>0</u> . | <u>18</u> (mm) | Dilution Fa | ctor:1.0 | <u>)0</u> | |
| Soil Extr | ract Volum | ອ: (ນ | ıL) | Soil Aliquo | t Volume: | (t | 近) |
| • | | | | CONCENTRATION U | NTTS: | | |
| <u>:</u> | CAS NO. | COMPOUN | | (ug/L or ug/Kg | | Q | |
| | 67-64-1 | Acetone | | | 5.0 | U | |
| | 171-43-2 | Benzene | | 1 | 1.0 | U | |
| | 75-27-4 | Bromodi | | r i | | U . | |
| | 75-25-2 | Bromoto | orm | | 1.0 | ע | |
| | 14-63-9 | Broubus | | | 1.0 | ש | |
| | 1 /8ータミーミーー | Z-HITAT | 1One | ì | 5.0 | ט | |
| | 75-15-0 | Carbon | Disulfide | | 1.0 | ע | |
| | 56-23-5 | Carbon | Tetrachloride | | 1.0 | บ | |
| , | 1 TO8 - 90 - 7 - | Cnioror | penzene | | 1.0 | U | |
| | 175-00-3 | Chloroe | ethane | , | 1.0 | U | |
| | 10/-00-3 | CITOLOI | -OLIII | • | 0.55 | J | |
| | 74-87-3 | Chloron | methane | | 1.0 | U | |
| | 110-82-7- | Cyclohe | exane | | 1.0 | U | |
| | 106-93-4- | 1,2-Dik | aromo ot homo | | 1.0 | U | |
| | | | ochloromethane | | 1.0 | U | |
| | | | oromo-3-chloropropane_ | | 1.0 | U | |
| | 95-50-1 | 1.2-Dic | , , | | 1.0 | U | |
| | | | chlorobenzene | | 1.0 | U | |
| | | | chlorobenzene | | 1.0 | ไบ | |
| | | | rodifluoromethane | | 1.0 | ש | |
| | | | chloroethane | | 1.0 | ט | |
| | | | chloroethane | | 1.0 | ט | |
| _ | | • | chloroethene | | 1.0 | Ū | |
| | | | 2-Dichloroethene | | 1.0 | שׁ | |
| | | | 1,2-Dichloroethene | | 1.0 | Ū | |
| | | | chloropropane | | 1.0 | บั | |
| | | | 3-Dichloropropene | | 1.0 | Ū | |
| | | | 1,3-Dichloropropene | | 1.0 | Ū | |
| | | Ethylbe | · · · · · | | 1.0 | Ū | |
| | | 2-Hexar | | · · · · · · | 5.0 | Ū | |
| | 1 | Isoprop | · · · · · · · · · · · · · · · · · · · | | 1.0 | Ū | |
| | | Methyl | | | 1.0 | U | |
| | | Methylo | | | 1.0 | Ü | |
| · | | | ene chloride | | 1.0 | lΰ | |
| | 112 02-2 | | AN MILLETON | | | 10 | l |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| Ish Name, CTT Diffolo | Contract: | | MW-BH6 | | |
|---------------------------------|---------------------------|--------------------------------|----------------------|--------|-----------|
| TAD Name: SIL BULLATO | Contract: | | | | |
| Lab Code: <u>RECNY</u> Case No. | : SAS No.: | SDG No.: _ | | · | |
| Matrix: (soil/water) WATER | | Lab Sample | e ID: <u>A6D768</u> | 04 | |
| Sample wt/vol: 5.00 | (g/mL) <u>ML</u> | Lab File : | ID: <u>06871.</u> | RR | _ |
| Level: (low/med) <u>LOW</u> | | Date Samp | /Recv: <u>11/15/</u> | 2006 1 | L/16/2006 |
| % Moisture: not dec. | | Date Analy | yzed: <u>11/28/</u> | 2006 | |
| GC Column: DB-624 ID: | 0.18 (mm) | Dilution 1 | Factor: 1. | 00 | |
| Soil Extract Volume: | (uL) | Soil Aliq | uot Volume: | | (uL) |
| Number TICs found: 0 | CONCENTRATION (ug/L or ug | ON UNITS: g/Kg) <u>UG/L</u> | | | |
| CAS NO. | Compound Name | RT | Est. Conc. | Q | |

| - 1 | | | MW-BS5 |
|---|--------------|------------------|-----------------------|
| Lab Name: STL Buffalo | Contract: | | |
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: | |
| Matrix: (soil/water) WATER | | Lab Sample ID: | A6D76806 |
| Sample wt/vol: $\underline{5.00}$ (g/m ²) | L) <u>ML</u> | Lab File ID: | <u>Q6872.RR</u> |
| Level: (low/med) LOW | | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: not dec Heat | ted Purge: N | Date Analyzed: | 11/28/2006 |
| GC Column: <u>DB-624</u> ID: <u>0.18</u> | (mm) | Dilution Factor: | 1.00 |
| Soil Extract Volume: (uL) | | Soil Aliquot Vol | ume: (uL) |

| | | CONCENTRATION UNI | | |
|------------|-----------------------------|-------------------|------|-----|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
| 67-64-1 | Acetone | - | 3.2 | J |
| 71-43-2 | Benzene | | 1.0 | U |
| 75-27-4 | Bromodichloromethane | | 1.0 | U |
| 75-25-2 | Bromoform | | 1.0 | U |
| 74-83-9 | Bromomethane | | 1.0 | ע |
| 78-93-3 | 2-Butanone | | 5.0 | U |
| 75-15-0 | Carbon Disulfide | | 1.0 | ע |
| 56-23-5 | Carbon Tetrachloride | | 1.0 | U |
| 108-90-7 | Chlorobenzene | | 1.0 | U |
| 75-00-3 | Chloroethane | | 1.0 | U |
| 67-66-3 | Chloroform | | 1.0 | U |
| 74-87-3 | Chloromethane | | 1.0 | U |
| | Cyclohexane | | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | | 1.0 | U |
| | Dibromochloromethane | | 1.0 | ע |
| | 1,2-Dibromo-3-chloropropane | | 1.0 | ע |
| 95-50-1 | 1,2-Dichlorobenzene | | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 1.0 | ע . |
| 106-46-7 | 1,4-Dichlorobenzene | | 1.0 | U |
| 75-71-8 | Dichlorodifluoromethane | | 1.0 | U |
| 75-34-3 | 1,1-Dichloroethane | | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | | 1.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 1.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | | 1.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 1.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 1.0 | ע |
| | Ethylbenzene | | 1.0 | U |
| 591-78-6 | 2-Hexanone | | 5.0 | U |
| 98-82-8 | Isopropylbenzene | | 1.0 | U |
| 79-20-9 | Methyl acetate | | 1.0 | U |
| 108-87-2 | Methylcyclohexane | | 1.0 | U |
| 75-09-2 | Methylene chloride | | 1.0 | U |

| T. I. Niver Com. D. CC. 1 | | MW-BS5 | | |
|--|------------------------------------|--|---|---------|
| Lab Name: STL Buffalo Contract: | | <u> </u> | | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: _ | | | |
| Matrix: (soil/water) WATER | Lab Sample I | D: <u>A6D7680</u> | <u>6</u> | - |
| Sample wt/vol: | Lab File ID: | <u>Q6872.R</u> | R | |
| Level: (low/med) <u>LOW</u> | Date Samp/Re | cv: <u>11/15/2</u> | 006 11/ | 16/2006 |
| % Moisture: not dec Heated Purge: N | Date Analyze | d: <u>11/28/2</u> | 006 | |
| GC Column: <u>DB-624</u> ID: <u>0.18</u> (mm) | Dilution Fac | tor:1.0 | <u>o</u> | |
| Soil Extract Volume: (uL) | Soil Aliquot | Volume: | | uL) |
| | INCENTRATION UN (ug/L or ug/Kg) | | Q | |
| 108-10-14-Methyl-2-pentanone 1634-04-4Methyl-t-Butyl Ether (MTBE) 100-42-5Styrene 79-34-51,1,2,2-Tetrachloroethane 127-18-4Tetrachloroethene 108-88-3Toluene 120-82-11,2,4-Trichlorobenzene 71-55-61,1,1-Trichloroethane 79-00-51,1,2-Trichloroethane 76-13-11,1,2-Trichloroethane 75-69-4Trichlorofluoromethane 79-01-6Trichloroethene 75-01-4Vinyl chloride 1330-20-7Total Xylenes | pethane | 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | טטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS TENIATIVELY IDENTIFIED COMPOUNDS

| | | . | | | MW-BS5 | | |
|-----------|-----------------------|--------------------|---------------------------|----------|-----------------|---------------|-----------|
| Lab Name: | SIL Buttalo | Contract: | | | | | |
| Lab Code: | <u>RECNY</u> Case No. | : SAS No.: | SDG No.: _ | | | | |
| Matrix: (| (soil/water) WATER | | Lab Sampl | le ID: | A6D7680 | 6 | |
| Sample wt | :/vol: <u>5.00</u> |) (g/mL) <u>ML</u> | Lab File | ID: | <u>06872.</u> R | R. | |
| Level: | (low/med) <u>LOW</u> | | Date Samp | p/Recv: | 11/15/2 | <u>2006</u> 1 | 1/16/2006 |
| % Moistur | ce: not dec | | Date Anal | lyzed: | 11/28/2 | 2006 | |
| GC Column | n: <u>DB-624</u> ID: | : <u>0.18</u> (mm) | Dilution | Factor: | : <u>1.0</u> | 00 | |
| Soil Exti | cact Volume: | (uL) | Soil Alio | quot Vol | lume: | | (uL) |
| Number Ti | ICs found: _0 | | CONCENTRAT: (ug/L or 1 | | | - | |
| | CAS NO. | Compound Name | RT | Est. | Conc. | Q | |
| | | | | | | | 7 |

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LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| I ah Nama | . CTT Diffolo | Contract: | | MW-BS6 | | |
|-----------|---------------------------|---------------------------------------|---------------------|----------|--------------|-----------|
| LaD Name: | : PILL BULLATO | Concract: | | | | |
| Lab Code: | : <u>RECNY</u> Cas | se No.: SAS No.: | SDG No.: | | | |
| Matrix: | (soil/water) <u>W</u> | ATER | Lab Sample ID: | A6D76808 | | |
| Sample wt | t/vol: _ | 5.00 (g/mL) <u>ML</u> | Lab File ID: | Q6883.RR | | |
| Level: | (low/med) \underline{I} | WO | Date Samp/Recv: | 11/15/20 | 06 11/16/200 | <u>06</u> |
| % Moistu | re: not dec | Heated Purge: N | Date Analyzed: | 11/29/20 | 06 | |
| GC Column | n: <u>DB-624</u> | ID: <u>0.18</u> (mm) | Dilution Factor | 1.00 | ! | |
| Soil Ext | ract Volume: _ | (uL) | Soil Aliquot Vo | olume: | (uL) | |
| | | | CONCENTRATION UNITS | 5: | | |
| | CAS NO. | COMPOUND | (ug/L or ug/Kg) | | ,Q | |
| | 67-64-1 | Acetone | | 19 | | |
| | 71-43-2 | | · · · · · · | 1.0 | υ | |
| | 75-27-4 | Bromodichloromethane | | 1.0 | ט | |
| | 75-25-2 | | | 1.0 | U | |
| | 74-83-9 | Bromomethane | | 1.0 | ប | |
| | 78-93-3 | 2-Butanone | | 2.6 | J | |
| • • | 75-15-0 | 2-Butanone Carbon Disulfide | | 1.5 | | |
| | 56-23-5 | Carbon Tetrachloride | | 1.0 | ប | |
| | 108_90_7 | Chlorobenzene | | 1.0 | Ū | |
| • | 75-00-3 | Chloroethane | | 1.0 | U | |
| | 67-66-3 | Chlomform | | 1.0 | Ū | |
| • | 74-87-3 | Chloroform Chloromethane | | 1.0 | Ū | |
| | | Craloborono | | 1.0 | υ | |
| | | 1,2-Dibromoethane | | 1.0 | Ü | |
| | | Dibromochloromethane | | 1.0 | Ū | |
| | | 1,2-Dibromo-3-chloropropane | | 1.0 | ט | |
| | | 1,2-Dichlorobenzene | | 1.0 | υ | |
| | | 1,3-Dichlorobenzene | | 1.0 | Ū | |
| | | 1,4-Dichlorobenzene | | 1.0 | ט | |
| • | | Dichlorodifluoromethane | | 1.0 | υ | |
| | · · | 1,1-Dichloroethane | | 1.0 | Ū | |
| | | 1,1-Dichloroethane | | 1.0 | וֹט וֹ | |
| | | 1,1-Dichloroethene | | 1.0 | บั | |
| | | cis-1,2-Dichloroethene | | 1.0 | Ŭ | |
| | | trans-1,2-Dichloroethene | | 1.0 | lŭ l | |
| | l . | · · · · · · · · · · · · · · · · · · · | | 1.0 | ΰ | |
| | | 1,2-Dichloropropane | | 1.0 | U U | |
| | | cis-1,3-Dichloropropene | | 1.0 | υ l | |
| | | trans-1,3-Dichloropropene | | 1.0 | ן ט | |
| | | Ethylbenzene | | 5.0 | ן ט | |
| | 591-78-6 | z-nexanone | | ٠.٠ | ١٠ | |

98-82-8-----Isopropylbenzene 79-20-9-----Methyl acetate

108-87-2----Methylcyclohexane 75-09-2-----Methylene chloride

| Sample wt/vol: | ample ID: <u>A6D76</u> | |
|--|---|---------------------------------|
| Matrix: (soil/water) WATER Lab Sample wt/vol: 5.00 (g/mL) ML Lab Fi Level: (low/med) LOW Date S % Moisture: not dec. Heated Purge: N Date S GC Column: DB-624 ID: 0.18 (mm) Dilution Soil Extract Volume: (uL) Soil A CAS NO. COMPOUND (ug/L or 108-10-14-Methyl-2-pentanone CONCENTRATE | ample ID: <u>A6D76</u> | |
| Sample wt/vol: 5.00 (g/mL) ML Lab Fi Level: (low/med) LOW Date S % Moisture: not dec. Heated Purge: N Date A GC Column: DB-624 ID: 0.18 (mm) Diluti Soil Extract Volume: (uL) Soil A CAS NO. COMPOUND (ug/L or 108-10-14-Methyl-2-pentanone | ile ID: <u>0</u> 6883 | |
| Level: (low/med) LOW Date S % Moisture: not dec Heated Purge: N Date S GC Column: DB-624 ID: _0.18 (mm) Diluti Soil Extract Volume: (uL) Soil S CAS NO. COMPOUND CONCENTRAT (ug/L or | | 3.RR |
| % Moisture: not dec Heated Purge: N Date A GC Column: DB-624 ID: 0.18 (mm) Diluti Soil Extract Volume: (uL) Soil A CONCENTRAT CAS NO. COMPOUND (ug/L or 108-10-14-Methyl-2-pentanone | Samp/Recv: <u>11/15</u> | |
| GC Column: DB-624 ID: 0.18 (mm) Diluti Soil Extract Volume: (uL) Soil A CONCENTRAT CAS NO. COMPOUND (ug/L or 108-10-14-Methyl-2-pentanone | | 5/2006 11/16/2006 |
| Soil Extract Volume: (uL) Soil A CONCENTRAT CAS NO. COMPOUND (ug/L or 108-10-14-Methyl-2-pentanone | Analyzed: <u>11/29</u> | 9/2006 |
| CAS NO. COMPOUND CONCENTRATE (ug/L or 108-10-14-Methyl-2-pentanone | ion Factor:1 | L.00 |
| CAS NO. COMPOUND (ug/L or 108-10-14-Methyl-2-pentanone | Aliquot Volume: _ | (uL) |
| | FION UNITS: ug/Kg) <u>UG/L</u> | _ Q |
| 1634-04-4Methyl-t-Butyl Ether (MTBE) 100-42-5Styrene 79-34-51,1,2,2-Tetrachloroethane 127-18-4Tetrachloroethene 108-88-3Toluene 120-82-11,2,4-Trichloroethane 71-55-61,1,1-Trichloroethane 79-00-51,1,2-Trichloroethane 76-13-11,1,2-Trichloro-1,2,2-trifluoroethane 75-69-4Trichlorofluoromethane 79-01-6Trichloroethene 75-01-4Vinyl chloride | 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | บ บ บ บ บ บ บ |

IABELLA ASSOCIATES IABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| | | | | MW-BS6 | | 1 |
|-----------|---------------------------|---------------------|--------------------------|--------------------------------|--------------|-------------|
| Lab Name: | SIL Buffalo | Contract: | | <u> </u> | | |
| Lab Code: | RECNY Case No | .: SAS No.: | SDG No.: _ | | | |
| Matrix: | (soil/water) <u>WATER</u> | | Lab Sample | e ID: <u>A6D768</u> | 808 | |
| Sample wt | :/vol: <u>5.0</u> | 0 (g/mL) <u>M</u> L | Lab File | ID: <u>Q6883</u> | .RR | |
| Level: | (low/med) <u>LOW</u> | | Date Samp | /Recv: <u>11/15</u> | <u>/2006</u> | 11/16/2006 |
| % Moistur | re: not dec. | - . | Date Analy | yzed: <u>11/29</u> | /2006 | |
| GC Column | n: <u>DB-624</u> ID | : <u>0.18</u> (mm) | Dilution : | Factor: 1 | .00 | |
| Soil Exti | ract Volume: | (uL) | Soil Aliq | uot Volume: _ | · | (uL) |
| Number Ti | ICs found: <u>1</u> | | CONCENTRATION (ug/L or u | ON UNITS: g/Kg) <u>UG/L</u> | | |
| | CAS NO. | Compound Name | RT | Est. Conc. | Q | |
| | 1. | ALKYLBENZENE ISOMER | 9.96 | 4 | J | |

Client No.

| | | | TRIP BLANK |
|---|-------------------|------------------|-----------------------|
| Lab Name: <u>STL Buffalo</u> | Contract: | | |
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: | |
| Matrix: (soil/water) <u>WATER</u> | | Lab Sample ID: | A6D76809 |
| Sample wt/vol: 5.00 (g/mL) | ML | Lab File ID: | N2245.RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: not dec Heated | d Purge: <u>N</u> | Date Analyzed: | 11/27/2006 |
| GC Column: <u>DB-624</u> ID: <u>0.25</u> (n | m) | Dilution Factor: | 1.00 |
| Soil Extract Volume: (uL) | | Soil Aliquot Vol | ume: (uL) |
| | | | |

CONCENTRATION UNITS: Q UG/L(uq/L or uq/Kg)CAS NO. COMPOUND 13 67-64-1----Acetone U 1.0 71-43-2----Benzene 2.5 75-27-4----Bromodichloromethane U 1.0 75-25-2----Bromoform U 74-83-9-----Bromomethane 1.0 5.0 U 78-93-3----2-Butanone U 1.0 75-15-0-----Carbon Disulfide U 1.0 56-23-5-----Carbon Tetrachloride 108-90-7----Chlorobenzene 1.0 U 1.0 U 75-00-3-----Chloroethane 6.8 67-66-3-----Chloroform IJ 74-87-3-----Chloromethane 1.0 U 1.0 110-82-7-----Cyclohexane 1.0 U 106-93-4----1,2-Dibromoethane J 124-48-1----Dibromochloromethane 0.52 1.0 U 96-12-8----1,2-Dibromo-3-chloropropane U 95-50-1----1,2-Dichlorobenzene 1.0 541-73-1----1,3-Dichlorobenzene IJ 1.0 U 106-46-7----1,4-Dichlorobenzene 1.0 U 75-71-8-----Dichlorodifluoromethane 1.0 U 1.0 75-34-3-----1,1-Dichloroethane U 107-06-2----1,2-Dichloroethane 1.0 U 1.0 75-35-4----1,1-Dichloroethene U 156-59-2----cis-1,2-Dichloroethene 1.0 U 156-60-5----trans-1,2-Dichloroethene 1.0 U 1.0 78-87-5----1,2-Dichloropropane U 1.0 10061-01-5---cis-1,3-Dichloropropene U 10061-02-6---trans-1,3-Dichloropropene 1.0 U 1.0 100-41-4----Ethylbenzene 5.0 U 591-78-6----2-Hexanone 1.0 U 98-82-8----Isopropylbenzene U 79-20-9-----Methyl acetate 1.0 1.0 U 108-87-2----Methylcyclohexane U 75-09-2-----Methylene chloride 1.0

| | | | TRI | P BLANK | |
|---|---|-----------------|--|--|-------------|
| Lab Name: <u>STL Buffalo</u> | Contract: | | L | | |
| Lab Code: <u>RECNY</u> Ca | se No.: SAS No.: | _ SDG No.: _ | | | |
| Matrix: (soil/water) | WATER | Lab Sample | ID: <u>A6D7</u> | 76809 | |
| Sample wt/vol: | | Lab File ID | : <u>N224</u> | 5.RR | <u>-</u> |
| Level: (low/med) | LOW | Date Samp/R | ecv: <u>11/1</u> | 5/2006 11 | /16/2006 |
| % Moisture: not dec. | Heated Purge: N | Date Analyz | ed: <u>11/2</u> | 27/2006 | |
| GC Column: <u>DB-624</u> | ID: <u>0.25</u> (mm) | Dilution Fa | ctor: | 1.00 | |
| Soil Extract Volume: | (uL) | Soil Alique | t Volume: | | (uL) |
| | · · · · · · · · · · · · · · · · · · · | CONCENTRATION U | | | |
| CAS NO. | COMPOUND | (ug/L or ug/Kg |) <u>U.÷/1</u> . | Q | |
| 1634-04-4 100-42-5 79-34-5 127-18-4 108-88-3 120-82-1 71-55-6 | 1,1,2,2-TetrachloroethaneTetrachloroetheneToluene1,2,4-Trichlorobenzene1,1,1-Trichloroethane | | 1.0 1.0 1.0 1.0 1.0 1.0 | 0 U 0 U 0 U 0 U 0 U 0 U | |
| 76-13-1 75-69-4 79-01-6 75-01-4 | 1,1,2-Trichloroethane1,1,2-Trichloro-1,2,2-trifluTrichlorofluoromethaneTrichloroetheneVinyl chlorideTotal Xylenes | | 1.0 1.0 1.0 1.0 3.0 | U U U U U | |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| | | | TRIP BL | ANK | |
|-----------------------------|-----------------|---------------------------|--------------------------------|-------------|-----------|
| Lab Name: STL Buffalo | Contract: | | <u> </u> | | |
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: _ | | | |
| Matrix: (soil/water) WATER | | Lab Sample | E ID: <u>A6D768</u> | 09. | |
| Sample wt/vol: | g/mL) <u>ML</u> | Lab File I | D: <u>N2245.</u> | RR | <u> </u> |
| Level: (low/med) <u>LOW</u> | | Date Samp/ | 'Recv: <u>11/15/</u> | 2006 1 | 1/16/2006 |
| % Moisture: not dec | | Date Analy | zed: <u>11/27/</u> | 2006 | |
| GC Column: DB-624 ID: 0 |).25 (mm) | Dilution I | Factor:1. | 00 | |
| Soil Extract Volume: (| (uL) | Soil Aliqu | ot Volume: _ | | (vL) |
| Number TICs found:0 | | CONCENTRATION (ug/L or us | ON UNITS: g/Kg) <u>UG/L</u> | | |
| CAS NO. | Compound Name | RT | Est. Conc. | Q | |

Client No.

| | | | MW-BH5 |
|--------------------------|-------------------|------------------|-----------------------|
| Lab Name: STL Buffalo | o Contract: | | |
| Lab Code: <u>RECNY</u> C | ase No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) | WATER | Lab Sample ID: | A6D76801 |
| Sample wt/vol: | 1000.0 (g/mL) ML | Lab File ID: | W13082.RR |
| Level: (low/med) | LOW | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: | decanted: (Y/N) N | Date Extracted: | 11/21/2006 |
| Concentrated Extract | Volume: 1000 (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volume: | 1.00 (uL) | Dilution Factor: | 1.00 |

GPC Cleanup: (Y/N) N pH: 5.0

| | | CONCENTRATION I | _ | |
|-----------|-------------------------------|-----------------|----------------|-----|
| CAS NO. | COMPOUND | (ug/L or ug/K | g) <u>UG/L</u> | Q |
| 83-32-9 | -Acenaphthene | | 10 | บ |
| 208-96-8 | -Acenaphthylene | | 10 | U |
| 98-86-2 | -Acetophenone | | 10 | U |
| 120-12-7 | -Anthracene | | 10 | ט |
| 1912-24-9 | -Atrazine | | 10 | U |
| 100-52-7 | -Benzaldehyde | | 50 | ט |
| 56-55-3 | -Benzo (a) anthracene | | 10 | U |
| 205-99-2 | -Benzo (b) fluoranthene | | 10 | U |
| 207-08-9 | -Benzo (k) fluoranthene | | 10 | U |
| 191-24-2 | -Benzo(ghi)perylene | | 10 | ប |
| | -Benzo (a) pyrene | | 10 | U |
| 92-52-4 | -Biphenyl | | 10 | ប |
| 111-91-1 | -Bis(2-chloroethoxy) methane | | 10 | U |
| 111-44-4 | -Bis(2-chloroethyl) ether | | 10 | υ |
| | -2,2'-Oxybis(1-Chloropropane) | | 10 | ប |
| | -Bis(2-ethylhexyl) phthalate | | 10 | U |
| 101-55-3 | -4-Bromophenyl phenyl ether | | 10 | U |
| 85-68-7 | -Butyl benzyl phthalate | | 10 | U |
| 106-47-8 | -4-Chloroaniline | | 10 | ן ט |
| 59-50-7 | -4-Chloro-3-methylphenol | | 10 | U |
| 91-58-7 | -2-Chloronaphthalene | | 10 | U |
| 95-57-8 | -2-Chlorophenol | | 10 | U |
| 7005-72-3 | -4-Chlorophenyl phenyl ether | | 10 | U |
| | Caprolactam | | 10 | ប |
| 86-74-8 | Carbazole | | 10 | ប |
| 218-01-9 | -Chrysene | | 10 | U |
| | Dibenzo (a,h) anthracene | | 10 | ប |
| 132-64-9 | -Dibenzofuran | | 10 | ן ט |
| 84-74-2 | -Di-n-butyl phthalate | | 10 | ט |
| | -3,3'-Dichlorobenzidine | | 20 | υ |
| 1 | -2,4-Dichlorophenol | | 10 | U |
| | -Diethyl phthalate | | 10 | U |

Client No.

| | | | MW-BH5 |
|-----------------------------------|----------------|------------------|-----------------------|
| Lab Name: <u>STL Buffalo</u> | Contract: | | |
| Lab Code: <u>RECNY</u> Case No.: | SAS No.: | SDG No.: | · • |
| Matrix: (soil/water) <u>WATER</u> | | Lab Sample ID: | A6D76801 |
| Sample wt/vol: 1000.0 (g/ml | ı) <u>MI</u> ı | Lab File ID: | W13082.RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: decanted: | (Y/N) <u>N</u> | Date Extracted: | 11/21/2006 |
| Concentrated Extract Volume: 1000 | <u>)</u> (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volume: 1.00 (uL) | | Dilution Factor: | 1.00 |
| | | | |

GPC Cleanup: (Y/N) N pH: 5.0

| CAS NO. COMPOUND | CONCENTRATION UNI (ug/L or ug/Kg) | TS: UG/L | Q |
|------------------------------------|--------------------------------------|-------------|-----|
| 105-67-92,4-Dimethylphenol | | 10 | ט |
| 131-11-3Dimethyl phthalate | | 10 | ט |
| 534-52-14,6-Dinitro-2-methylphenol | | 50 | U |
| 51-28-52,4-Dinitrophenol | | 50 | U |
| 121-14-22,4-Dinitrotoluene | · | 10 | U |
| 606-20-22,6-Dinitrotoluene | | 10 | U |
| 117-84-0Di-n-octyl phthalate | | 10 | U |
| 206-44-0Fluoranthene | | 10 | U |
| 86-73-7Fluorene | | 10 | U |
| 118-74-1Hexachlorobenzene | | 10 | U |
| 87-68-3Hexachlorobutadiene | | 10 | U |
| 77-47-4Hexachlorocyclopentadiene | | 45 | U |
| 67-72-1Hexachloroethane | | 10 | U |
| 193-39-5Indeno (1, 2, 3-cd) pyrene | | 10 | U |
| 78-59-1Isophorone | | 10 | ט |
| 91-57-62-Methylnaphthalene | | 10 | U |
| 95-48-72-Methylphenol | | 10 | ָט |
| 106-44-54-Methylphenol | | 10 | Ū |
| 91-20-3Naphthalene | | 10 | ע |
| 88-74-42-Nitroaniline | | 50 | ן ט |
| 99-09-23-Nitroaniline | | 50 | U |
| 100-01-64-Nitroaniline | | 50 | ע |
| 98-95-3Nitrobenzene | | 10 | U |
| 88-75-52-Nitrophenol | | 10 | U |
| 100-02-74-Nitrophenol | | 50 | U |
| 86-30-6N-nitrosodiphenylamine | | 10 | ע |
| 621-64-7N-Nitroso-Di-n-propylamine | | 10 | U |
| 87-86-5Pentachlorophenol | | 50 | U |
| 85-01-8Phenanthrene | | 10 | ש |
| 108-95-2Phenol | | 10 | U |
| 129-00-0Pyrene | | 10 | U |
| 95-95-42,4,5-Trichlorophenol_ | | 10 | ן ט |

| | | | | MW-BH5 |
|----------------|-------------------------------|---------------|---|-----------------------|
| Lab Name: STL | <u>Buffalo</u> | Contract: | · | |
| Lab Code: RECN | Y Case No.: | SAS No.: | SDG No.: | - |
| Matrix: (soil/ | water) <u>WATER</u> | | Lab Sample ID: | A6D76801 |
| Sample wt/vol: | <u>1000.0</u> (g/mL) | <u>ML</u> | Lab File ID: | W13082.RR |
| Level: (low/ | med) <u>LOW</u> | | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: _ | decanted: (Y | //N) <u>N</u> | Date Extracted: | 11/21/2006 |
| Concentrated E | extract Volume: 1000 | (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volu | me: 1.00 (uL) | | Dilution Factor: | 1.00 |
| GPC Cleanup: | (Y/N) <u>N</u> pH: <u>5.0</u> | | | |
| CAS N | TO. COMPOUND | | CONCENIRATION UNITS: (ug/L or ug/Kg) | |
| 88-06 | 5-22,4,6-Trich | lorophenol | | 10 U |

IABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

| MW-BH5 | |
|------------|--|
| רווע-ווויו | |

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: ____

Matrix: (soil/water) WATER Lab Sample ID: A6D76801

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: W13082.RR

Level: (low/med) <u>LOW</u> Date Samp/Recv: <u>11/15/2006</u> <u>11/16/2006</u>

% Moisture: ____ decanted: (Y/N) N Date Extracted: 11/21/2006

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/24/2006

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

CONCENTRATION UNITS:

Number TICs found: $\underline{18}$ (ug/L or ug/Kg) $\underline{\text{UG/L}}$

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|--------------|------------------------------|-------|------------|----|
| 1. | UNKNOWN | 6.20 | 18 | BJ |
| 2. | UNKNOWN | 12.75 | 5 | J |
| 3. | UNKNOWN | 12.92 | 8 | BJ |
| 4. | UNKNOWN | 12.95 | 5 | J |
| 5. | UNKNOWN | 13.90 | 21 | J |
| 6. | UNKNOWN | 14.04 | 26 | BJ |
| 7. 111-06-8 | BUTYL ESTER HEXADECANOIC ACI | 14.20 | 14 | JN |
| 8. | UNKNOWN | 14.73 | 8 | BJ |
| 9. | UNKNOWN | 14.76 | 19 | BJ |
| 10. | UNKNOWN | 14.78 | 36 | BJ |
| 11. 123-95-5 | BUTYL ESTER OCTADECANOIC ACI | 14.84 | 25 | JN |
| 12. | UNKNOWN | 14.88 | 17 | BJ |
| 13. | UNKNOWN | 15.16 | 5 | BJ |
| 14. | UNKNOWN | 15.51 | 61 | BJ |
| 15. | UNKNOWN | 15.62 | 18 | BJ |
| 16. | UNKNOWN | 16.19 | 43 | BJ |
| 17. | UNKNOWN | 16.98 | 8 | BJ |
| 18. | UNKNOWN | 17.02 | 10 | BJ |

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METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

MW-BH6

Client No.

| Lab Name: STL Buffalo | Contract: | | |
|---------------------------|-------------------|------------------|-----------------------|
| Lab Code: <u>RECNY</u> Ca | ase No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) | WATER | Lab Sample ID: | A6D76803 |
| Sample wt/vol: | 1000.0 (g/mL) ML | Lab File ID: | W13083.RR |
| Level: (low/med) | LOW | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: | decanted: (Y/N) N | Date Extracted: | 11/21/2006 |
| Concentrated Extract | Volume: 1000 (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volume: | 1.00 (uL) | Dilution Factor: | 1.00 |

GPC Cleanup: (Y/N) N pH: 5.0

CONCENTRATION UNITS:

| | | CONCENTRATION UNI | | |
|-----------|---------------------------|-------------------|-------------|------|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/L</u> | Q |
| 83-32-9 | Acenaphthene | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| | Acetophenone | | 10 | ַ ט |
| 120-12-7 | Anthracene | | 10 | ט |
| 1912-24-9 | Atrazine | | 10 | U |
| 100-52-7 | Benzaldehyde | | 50 | U |
| 56-55-3 | Benzo (a) anthracene | | 10 | U |
| 205-99-2 | Benzo (b) fluoranthene | | 10 | U |
| 207-08-9 | Benzo(k) fluoranthene | | 10 | U |
| 191-24-2 | Benzo(ghi)perylene | | 10 | U |
| 50-32-8 | Benzo (a) pyrene | | 10 | ע |
| 92-52-4 | Biphenyl | | 10 | ט |
| 111-91-1 | Bis(2-chloroethoxy) metha | ne | 10 | U |
| | Bis(2-chloroethyl) ether | | 10 | U |
| | 2,2'-Oxybis(1-Chloropropa | ne) | 10 | U |
| | Bis(2-ethylhexyl) phthala | | 10 | U · |
| 101-55-3 | 4-Bromophenyl phenyl ethe | er | 10 | U |
| | Butyl benzyl phthalate | | 10 | U |
| | 4-Chloroaniline | | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | | 10 | U |
| | 2-Chloronaphthalene | | 10 | U |
| | 2-Chlorophenol | | 10 | U |
| | 4-Chlorophenyl phenyl eth | er | 10 | U |
| | Caprolactam | | 10 | U |
| | Carbazole | | 10 | U |
| 218-01-9 | | | 10 | U |
| | Dibenzo (a,h) anthracene | | 10 | U |
| | Dibenzofuran | | 10 | . U |
| | Di-n-butyl phthalate | | 10 | U |
| | 3,3'-Dichlorobenzidine | | 20 | ប |
| | 2,4-Dichlorophenol | | 10 | บ |
| | Diethyl phthalate | | 10 | U |
| 04.00 2 | Dictiy: piciaidec | | | |

Client No.

| | • | | MM-BH6 |
|--------------------------|-------------------|------------------|---------------------------------------|
| Lab Name: SIL Buffalo | Contract: | | |
| Lab Code: <u>RECNY</u> C | ase No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) | WATER | Lab Sample ID: | A6D76803 |
| Sample wt/vol: | 1000.0 (g/mL) ML | Lab File ID: | W13083.RR |
| Level: (low/med) | LOW | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: | decanted: (Y/N) N | Date Extracted: | 11/21/2006 |
| Concentrated Extract | Volume: 1000 (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volume: | 1.00 (uL) | Dilution Factor: | 1.00 |
| | | • | · · · · · · · · · · · · · · · · · · · |

CONCENIRATION UNITS:

(ug/L or ug/Kg)

UG/L

10

10

10

U

U

U

Q

GPC Cleanup: (Y/N) N pH: 5.0

108-95-2----Phenol_

129-00-0----Pyrene

95-95-4----2,4,5-Trichlorophenol

COMPOUND

CAS NO.

| 105-67-92,4-Dimethylphenol | | ប |
|------------------------------------|----|----------|
| 131-11-3Dimethyl phthalate | | U |
| 534-52-14,6-Dinitro-2-methylphenol | 50 | U |
| 51-28-52,4-Dinitrophenol | 50 | U |
| 121-14-22,4-Dinitrotoluene | 10 | U |
| 606-20-22,6-Dinitrotoluene | 10 | U |
| 117-84-0Di-n-octyl phthalate | 10 | U |
| 206-44-0Fluoranthene | 10 | U |
| 86-73-7Fluorene | 10 | U |
| 118-74-1Hexachlorobenzene | 10 | U |
| 87-68-3Hexachlorobutadiene | 10 | U |
| 77-47-4Hexachlorocyclopentadiene | 45 | U |
| 67-72-1Hexachloroethane | 10 | U. |
| 193-39-5Indeno (1, 2, 3-cd) pyrene | 10 | U |
| 78-59-1Isophorone | 10 | U |
| 91-57-62-Methylnaphthalene | 10 | U |
| 95-48-72-Methylphenol | 10 | U . |
| 106-44-54-Methylphenol | 10 | U |
| 91-20-3Naphthalene | 10 | U |
| 88-74-42-Nitroaniline | 50 | U |
| 99-09-23-Nitroaniline | 50 | ប |
| 100-01-64-Nitroaniline | 50 | U |
| 98-95-3Nitrobenzene | 10 | U |
| 88-75-52-Nitrophenol | 10 | ប |
| 100-02-74-Nitrophenol | 50 | υ |
| 86-30-6N-nitrosodiphenylamine | 10 | U |
| 621-64-7N-Nitroso-Di-n-propylamine | 10 | υ |
| 87-86-5Pentachlorophenol | 50 | ប |
| 85-01-8Phenanthrene | 10 | U |
| | | 1 |

| | MW-BH6 |
|--|---|
| Lab Name: STL Buffalo Contract: | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: |
| Matrix: (soil/water) <u>WATER</u> | Lab Sample ID: A6D76803 |
| Sample wt/vol: 1000.0 (g/mL) ML | Lab File ID: W13083.RR |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: <u>11/15/2006</u> <u>11/16/2006</u> |
| % Moisture: decanted: (Y/N) N | Date Extracted: <u>11/21/2006</u> |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: <u>11/24/2006</u> |
| Injection Volume: 1.00 (uL) | Dilution Factor:1.00 |
| GPC Cleanup: (Y/N) N pH: 5.0 | |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q |
| 88-06-22,4,6-Trichlorophenol_ | 10 U |

LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

| Lab Name: <u>STL Buffalo</u> | Contract: | | MW-BH6 |
|----------------------------------|------------------|------------------|-----------------------|
| Lab Code: RECNY Case No.: _ | SAS No.: | SDG No.: | |
| Matrix: (soil/water) WATER | | Lab Sample ID: | A6D76803 |
| Sample wt/vol: <u>1000.0</u> (g, | /mL) <u>ML</u> | Lab File ID: | W13083.RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: decanted: | (Y/N) <u>N</u> | Date Extracted: | 11/21/2006 |
| Concentrated Extract Volume: | <u>1000</u> (นL) | Date Analyzed: | 11/24/2006 |
| Injection Volume:1.00 (uL) |) | Dilution Factor: | 1.00 |

GPC Cleanup: (Y/N) N pH: 5.0

Number TICs found: 20

CONCENTRATION UNITS:

(ug/L or ug/Kg) <u>UG/L</u>

Est. Conc. Q CAS NO. Compound Name RT 12 BJ 6.20 UNKNOWN 1. J 12.75 6 2. UNKNOWN UNKNOWN 12.86 9 J 3. 12.92 15 BJ 4. UNKNOWN 6 J 12.95 5. UNKNOWN 26 J 13.90 6. UNKNOWN BJ 14.04 43 7. UNKNOWN 16 JN 8. 111-06-8 BUTYL ESTER HEXADECANOIC ACI 14.20 10 BJ 9. UNKNOWN 14.73 23 BJ 10. UNKNOWN 14.76 31 BJ 14.78 11. UNKNOWN BUTYL ESTER OCTADECANOIC ACI 30 JN 12. 123-95-5 14.84 BJ 22 13. UNKNOWN 14.89 UNKNOWN 15.16 9 BJ 14. 27 BJ 15.48 15. UNKNOWN BJ 16. UNKNOWN 15.51 16 BJ 17. 15.62 26 UNKNOWN 16.19 54 BJ 18. UNKNOWN 10 BJ 16.98 19. UNKNOWN BJ 13 20. UNKNOWN 17.02

Client No.

| | | | | | MW-BS5 |
|-----------|----------------|-------------------|----------|------------------|-----------------------|
| Lab Name: | STL Buffalo | <u> </u> | ntract: | _ | |
| Lab Code: | <u>RECNY</u> C | ase No.: | SAS No.: | SDG No.: | |
| Matrix: (| (soil/water) | WATER | | Lab Sample ID: | A6D76805 |
| Sample wt | :/vol: | 1000.0 (g/mL) MI | į . | Lab File ID: | W13084.RR |
| Level: | (low/med) | LOW | | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moistur | æ: | decanted: (Y/N) | <u>N</u> | Date Extracted: | 11/21/2006 |
| Concentra | ated Extract | Volume: 1000 (uL) | | Date Analyzed: | 11/24/2006 |
| Injection | n Volume: | 1.00 (uL) | | Dilution Factor: | 1.00 |

GPC Cleanup: (Y/N) N pH: 5.0

| CAS NO. | COMPOUND | CONCENTRATION (ug/L or ug/K | UG/L_ | Q |
|-----------|-------------------------------|-----------------------------|-----------|----------|
| | -Acenaphthene | | 10 | U |
| | -Acenaphthylene | | 10 | U |
| 98-86-2 | -Acetophenone | | 10 | U |
| 120-12-7 | | | 10 | U |
| 1912-24-9 | -Atrazine | | 10 | U |
| | -Benzaldehyde | | 50 | ע |
| 56-55-3 | -Benzo (a) anthracene | | 10 | ע |
| 205-99-2 | -Benzo (b) fluoranthene | | 10 | U |
| 207-08-9 | Benzo(k) fluoranthene | | 10 | U |
| 191-24-2 | Benzo(ghi)perylene | | 10 | ע |
| | Benzo (a) pyrene | | 10 | U |
| 92-52-4 | -Biphenyl | | 10 | U |
| 111-91-1 | -Bis(2-chloroethoxy) methane | | 10 | U |
| 111-44-4 | Bis(2-chloroethyl) ether | | 10 | U |
| 108-60-1 | -2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | | 10 | ע |
| 101-55-3 | -4-Bromophenyl phenyl ether | | 10 | U |
| 85-68-7 | Butyl benzyl phthalate | | 10 | U |
| 106-47-8 | 4-Chloroaniline | | 10 | ט |
| | 4-Chloro-3-methylphenol | | 10 | U |
| 91-58-7 | 2-Chloronaphthalene | | 10 | ן ט |
| 95-57-8 | 2-Chlorophenol | | 10 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | 10 | ט |
| 105-60-2 | Caprolactam | | 10 | ט |
| 86-74-8 | | | 10 | ע |
| 218-01-9 | Chrysene | | 10 | ע |
| 53-70-3 | Dibenzo (a, h) anthracene | | 10 | ע |
| | Dibenzofuran | | 10 | U |
| 84-74-2 | Di-n-butyl phthalate | | 10 | U |
| | 3,3'-Dichlorobenzidine | | 20 | U |
| | 2,4-Dichlorophenol | | 10 | ប |
| 1 | Diethyl phthalate | | 10 | U |

Client No.

| | | | MM-R22 |
|-----------------------------|-------------------|------------------|-----------------------|
| Lab Name: <u>STL Buffal</u> | o Contract: | _ | |
| Lab Code: <u>RECNY</u> C | ase No.: | SDG No.: | |
| Matrix: (soil/water) | WATER | Lab Sample ID: | A6D76805 |
| Sample wt/vol: | 1000.0 (g/mL) ML | Lab File ID: | W13084.RR |
| Level: (low/med) | LOW | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: | decanted: (Y/N) N | Date Extracted: | 11/21/2006 |
| Concentrated Extract | Volume: 1000 (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volume: | 1.00 (uL) | Dilution Factor: | 1.00 |
| | | | |

GPC Cleanup: (Y/N) \underline{N} pH: $\underline{5.0}$

| CAS NO. | COMPOUND | CONCENTRATION UNI (ug/L or ug/Kg) | TS: <u>UG/L</u> | Q |
|--|---|--------------------------------------|--------------------|----------------------|
| 105-67-9 131-11-3 534-52-1 51-28-5 121-14-2 606-20-2 117-84-0 86-73-7 118-74-1 87-68-3 77-47-4 67-72-1 193-39-5 78-59-1 91-57-6 95-48-7 | 2,4-DimethylphenolDimethyl phthalate4,6-Dinitro-2-methylphenol2,4-Dinitrotoluene2,6-DinitrotolueneDi-n-octyl phthalateFluorantheneFluoreneHexachlorobenzeneHexachlorobutadieneHexachlorocyclopentadieneHexachloroethaneIndeno(1,2,3-cd)pyreneIsophorone2-Methylphenol | ~~~ | | מ ממממממממממ D |
| 106-44-5 91-20-3 88-74-4 99-09-2 100-01-6 98-95-3 88-75-5 100-02-7 86-30-6 621-64-7 87-86-5 85-01-8 108-95-2 129-00-0 | 4-MethylphenolNaphthalene2-Nitroaniline3-Nitroaniline4-Nitroaniline4-Nitrobenzene2-Nitrophenol4-NitrophenolN-nitrosodiphenylamineN-Nitroso-Di-n-propylaminePentachlorophenolPhenanthrenePhenol | | | 1 1 |

| | MW-BS5 |
|--|---|
| Lab Name: STL Buffalo Contract: | |
| Lab Code: RECNY Case No.: SAS No.:_ | SDG No.: |
| Matrix: (soil/water) <u>WATER</u> | Lab Sample ID: A6D76805 |
| Sample wt/vol: 1000.0 (g/mL) ML | Lab File ID: <u>W13084.RR</u> |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: <u>11/15/2006</u> <u>11/16/2006</u> |
| % Moisture: decanted: (Y/N) N | Date Extracted: <u>11/21/2006</u> |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: <u>11/24/2006</u> |
| Injection Volume: 1.00 (uL) | Dilution Factor:1.00 |
| GPC Cleanup: (Y/N) N pH: 5.0 | |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q |
| 88-06-22,4,6-Trichlorophenol | 10 U |

LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

| | | | MW-BS5 |
|---------------------------------|------------------|-----------------|----------------------|
| Lab Name: <u>STL Buffalo</u> | Contract: | - | |
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: | |
| Matrix: (soil/water) WATER | | Lab Sample ID: | A6D76805 |
| Sample wt/vol: <u>1000.0</u> (9 | g/mL) <u>ML</u> | Lab File ID: | W13084.RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 11/15/2006 11/16/200 |
| % Moisture: decanted | : (Y/N) <u>N</u> | Date Extracted: | 11/21/2006 |
| Concentrated Extract Volume: | <u>1000</u> (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volume: 1.00 (u | L) | Dilution Factor | :1.00 |
| | | | |

GPC Cleanup: (Y/N) N pH: 5.0

CONCENTRATION UNITS:

Number TICs found: 20 (ug/L or ug/Kg) <u>UG/L</u>

| CAS NO. | Compound Name | | Est. Conc. | Q |
|--------------|------------------------------|-------|------------|----|
| 1. | UNKNOWN | 6.20 | 13 | ВJ |
| 2. | UNKNOWN | 12.75 | <u>,</u> 6 | J |
| 3. | UNKNOWN | 12.92 | . 9 | BJ |
| 4. | UNKNOWN | 12.95 | 6 | J |
| 5. | UNKNOWN | 13.90 | 24 | J |
| 6. | UNKNOWN | 13.91 | 15 | J |
| 7. | UNKNOWN | 13.92 | 13 | BJ |
| 8. | UNKNOWN | 14.04 | 36 | BJ |
| 9. 111-06-8 | BUTYL ESTER HEXADECANOIC ACI | 14.20 | 16 | JN |
| 10. | UNKNOWN | 14.73 | . 9 | BJ |
| 11. | UNKNOWN | 14.76 | 20 | BJ |
| 12. | UNKNOWN | 14.78 | 27 | BJ |
| 13. 123-95-5 | BUTYL ESTER OCTADECANOIC ACI | 14.84 | 28 | JN |
| 14. | UNKNOWN | 14.89 | 19 | BJ |
| 15. | UNKNOWN | 15.16 | 8 | BJ |
| 16. | UNKNOWN | 15.48 | 25 | BJ |
| 17. | UNKNOWN | 15.51 | 14 | BJ |
| 18. | UNKNOWN | 15.63 | 53 | BJ |
| 19. | UNKNOWN | 16.19 | 46 | BJ |
| 20. | UNKNOWN | 16.98 | 7 | BJ |

Client No.

| | • | | MW-BS6 |
|-----------------------------|--------------------------------|------------------|-----------------------|
| Lab Name: <u>STL Buffal</u> | o Contract: | | |
| Lab Code: <u>RECNY</u> C | ase No.: | SDG No.: | |
| Matrix: (soil/water) | WATER | Lab Sample ID: | A6D76807 |
| Sample wt/vol: | <u>1000.0</u> (g/mL) <u>ML</u> | Lab File ID: | W13085.RR |
| Level: (low/med) | LOW | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: | decanted: (Y/N) N | Date Extracted: | 11/21/2006 |
| Concentrated Extract | Volume: 1000 (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volume: | 1.00 (uL) | Dilution Factor: | 1.00 |

GPC Cleanup: (Y/N) N pH: 5.0

| | | CONCENTRATION UNI | TS: | |
|-----------|------------------------------|---------------------------------------|-------------|------------|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/L</u> | Q |
| 83-32-9 | Acenaphthene | | 10 | U |
| 208-96-8 | Acenaphthylene | | 10 | U |
| | Acetophenone | | 10 | U |
| 120-12-7 | Anthracene | | 10 | U |
| 1912-24-9 | Atrazine | | 10 | U |
| 100-52-7 | Benzaldehyde | | 50 | U |
| 56-55-3 | Benzo (a) anthracene | | 10 | U |
| 205-99-2 | Benzo (b) fluoranthene | | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | | 10 | ן ט |
| 191-24-2 | Benzo(ghi)perylene | | 10 | ע |
| | Benzo (a) pyrene | | 10 | ט |
| 92-52-4 | | | 10 | ן ט |
| | Bis(2-chloroethoxy) methane | | 10 | ט |
| | Bis(2-chloroethyl) ether | | 10 | ט |
| | 2,2'-Oxybis(1-Chloropropane) | | 10 | U |
| | Bis(2-ethylhexyl) phthalate | | 10 | ן ט |
| | 4-Bromophenyl phenyl ether | | 10 | ע |
| | Butyl benzyl phthalate | | 10 | U |
| | 4-Chloroaniline | | 10 | ן ט |
| | 4-Chloro-3-methylphenol | | 10 | U . |
| | 2-Chloronaphthalene | | 10 | Ū |
| | 2-Chlorophenol | : - | 10 | U |
| | 4-Chlorophenyl phenyl ether | | 10 | υ |
| | Caprolactam | | 10 | U |
| | Carbazole | | 10 | U |
| 218-01-9 | | | 10 | บ |
| | Dibenzo (a, h) anthracene | · · · · · · · · · · · · · · · · · · · | 10 | Ū |
| | Dibenzofuran | | 10 | Ū |
| | Di-n-butyl phthalate | · · · · · · · · · · · · · · · · · · · | 10 | Ŭ |
| | 3,3'-Dichlorobenzidine | | 20 | บ |
| | 2,4-Dichlorophenol | | 10 | Ū |
| | Diethyl phthalate | | 10 | υ |
| | District Ministrator | | | |

Client No.

| | | | MW-BS6 |
|------------------------------------|----------------|------------------|-----------------------|
| Lab Name: <u>STL Buffalo</u> | Contract: | | |
| Lab Code: <u>RECNY</u> Case No.: _ | SAS No.: | SDG No.: | |
| Matrix: (soil/water) WATER | | Lab Sample ID: | A6D76807 |
| Sample wt/vol: <u>1000.0</u> (g | /mL) <u>ML</u> | Lab File ID: | W13085.RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: decanted: | (Y/N) <u>N</u> | Date Extracted: | 11/21/2006 |
| Concentrated Extract Volume: 1 | 000 (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volume: 1.00 (uL) | | Dilution Factor: | 1.00 |

GPC Cleanup: (Y/N) N pH: 5.0

| | | CONCENTRATION UN | | |
|----------|----------------------------|------------------|-------------|------------|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/L</u> | Q |
| 105-67-9 | 2,4-Dimethylphenol | | 10 | ប |
| 131-11-3 | Dimethyl phthalate | | 10 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | | 50 | ן ט |
| | 2,4-Dinitrophenol | | 50 | U |
| | 2,4-Dinitrotoluene | · | 10 | ע |
| | 2,6-Dinitrotoluene | | 10 | Ū |
| | Di-n-octyl phthalate | | 10 | U |
| | Fluoranthene | | 10 | U |
| 86-73-7 | | | 10 | ע |
| | Hexachlorobenzene | | 10 | U |
| | Hexachlorobutadiene | | 10 | U . |
| | Hexachlorocyclopentadiene | | 45 | U |
| | Hexachloroethane | | 10 | U |
| | Indeno (1,2,3-cd) pyrene | | 10 | U |
| | Isophorone | | 10 | ן ט |
| | 2-Methylnaphthalene | | 10 | U |
| | 2-Methylphenol | | 10 | U |
| | 4-Methylphenol | | 2 | J . |
| | Naphthalene | | 10 | U |
| | 2-Nitroaniline | | 50 | U |
| | 3-Nitroaniline | | 50 | ע |
| | 4-Nitroaniline | | 50 | U |
| | Nitrobenzene | | 10 | ט |
| | 2-Nitrophenol | | 10 | U |
| | 4-Nitrophenol | | 50 | U |
| | N-nitrosodiphenylamine | | 10 | U |
| 621 64 7 | N-Nitroso-Di-n-propylamine | | 10 | ט |
| | Pentachlorophenol | | 50 | U |
| | Phenanthrene | | 10 | Ū |
| 108-95-2 | | | 10 | Ū |
| 129-00-0 | | | 10 | Ū |
| | 2,4,5-Trichlorophenol | - | 10 | Ū |

| | | | | | MW-BS6 | |
|------------|----------------|-------------------------|-------------------------|-------------------------------------|-----------|---------------------|
| Lab Name: | STL Buffal | <u>Lo</u> Con | ntract: | | | |
| Lab Code: | <u>RECNY</u> C | Case No.: | SAS No.: | SDG No.: | - | |
| Matrix: (s | soil/water) | WATER | | Lab Sample ID: | A6D76807 | |
| Sample wt/ | vol: | 1000.0 (g/mL) <u>ML</u> | | Lab File ID: | W13085.RI | R |
| Level: (| (low/med) | LOW | | Date Samp/Recv: | 11/15/200 | 06 <u>11/16/200</u> |
| % Moisture | : | decanted: (Y/N) | $\overline{\mathbf{N}}$ | Date Extracted: | 11/21/200 | 06 |
| Concentrat | ed Extract | Volume: 1000 (uL) | | Date Analyzed: | 11/24/200 | <u>06</u> |
| Injection | Volume: | 1.00 (uL) | | Dilution Factor | :1.00 | |
| GPC Cleanu | p: (Y/N) | <u>N</u> pH: _5.0 | | | | |
| C | CAS NO. | COMPOUND | | NCENIRATION UNITS ug/L or ug/Kg) | | Q |
| 8 | 38-06-2 | 2,4,6-Trichlon | ophenol | | 10 | υ |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

| _ | | · | MM-B26 |
|---------------------------|--------------------------------|-----------------|-----------------------|
| Lab Name: STL Buffalo | Contract: | , | |
| Lab Code: <u>RECNY</u> Ca | ase No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) | WATER | Lab Sample ID: | A6D76807 |
| Sample wt/vol: | <u>1000.0</u> (g/mL) <u>ML</u> | Lab File ID: | W13085.RR |
| Level: (low/med) | LOW | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: | decanted: (Y/N) N | Date Extracted: | 11/21/2006 |
| Concentrated Extract | Volume: 1000 (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volume: | 1.00 (uL) | Dilution Factor | :1.00 |
| GPC Cleanup: (Y/N) | <u>N</u> pH: <u>5.0</u> | | |

Number TICs found: 20

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q Est. Conc. CAS NO. Compound Name RT18 J 8.66 UNKNOWN 1. 10.91 110 IJ 2. UNKNOWN 210 J 3. UNKNOWN 11.14 J 11.65 16 4. UNKNOWN 28 J 5. UNKNOWN NAPHTHALENE DERIVATI 11.74 J 23 UNKNOWN NAPHTHALENE DERIVATI 11.90 6. 17 J 11.97 7. UNKNOWN 81 J 12.11 UNKNOWN 8. 34 J 12.75 9. UNKNOWN 66 J 10. UNKNOWN NAPHTHALENE DERTVATI 12.83 310 J 12.88 11. UNKNOWN 81 J 12. UNKNOWN 12.91 J 15 13. 13.06 UNKNOWN J 17 14. UNKNOWN 14.02 32 BJ 15. 14.73 UNKNOWN 18 BJ 14.76 16. UNKNOWN J 42 17. 15.08 UNKNOWN 19 BJ 15.51 18. UNKNOWN BJ 15.63 27 19. UNKNOWN BJ 41 16.20 20. UNKNOWN

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8081 - TCL PESTICIDES ANALYSIS DATA SHEET

Client No.

| | MW-BH5 |
|--|---|
| Lab Name: STL Buffalo Contract | t: |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: |
| Matrix: (soil/water) <u>WATER</u> | Lab Sample ID: A6D76801 |
| Sample wt/vol: <u>1000.00</u> (g/mL) <u>ML</u> | Lab File ID: <u>5A10073.TX0</u> |
| % Moisture: decanted: (Y/N) N | Date Samp/Recv: <u>11/15/2006</u> <u>11/16/2006</u> |
| Extraction: (SepF/Cont/Sonc/Soxh): SEPF | Date Extracted: 11/20/2006 |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: <u>11/21/2006</u> |
| Injection Volume:1.00(uL) | Dilution Factor: 1.00 |
| GPC Cleanup: (Y/N) N pH: 6.00 | Sulfur Cleanup: (Y/N) N |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q |
| 58-89-9gamma-BHC (Lindane) 319-86-8delta-BHC 72-54-84,4'-DDD 72-55-94,4'-DDE 50-29-34,4'-DDT 60-57-1Dieldrin 959-98-8Endosulfan I 33213-65-9Endosulfan II 1031-07-8Endosulfan Sulfate 72-20-8Endrin 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 76-44-8Heptachlor 1024-57-3Heptachlor epoxide 72-43-5Methoxychlor | 0.050 U |
| 8001-35-2Toxaphene | 1.0 U |

53494-70-5----Endrin ketone

0.050

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8081 - TCL PESTICIDES ANALYSIS DATA SHEET

| | | | MW-BH6 |
|--|------------------|---|----------------------|
| Lab Name: <u>STL Buffalo</u> | Contract: | | |
| Lab Code: <u>RECNY</u> Case No.: | SAS No.: | _ SDG No.: | |
| Matrix: (soil/water) <u>WATER</u> | | Lab Sample ID: | A6D76803 |
| Sample wt/vol: | mīL) <u>Mī</u> | Lab File ID: | <u>5A10074.TX0</u> |
| % Moisture: decanted: | (Y/N) <u>N</u> | Date Samp/Recv: | 11/15/2006 11/16/200 |
| Extraction: (SepF/Cont/Sonc/Sox | h): <u>SEPF</u> | Date Extracted: | 11/20/2006 |
| Concentrated Extract Volume: 1 | <u>0000</u> (ਪL) | Date Analyzed: | 11/21/2006 |
| Injection Volume: 1.00 (uL) | | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: 6.0 | 0 | Sulfur Cleanup: | (Y/N) <u>N</u> |
| CAS NO. COMPOUND | CONCI (ug, | ENIRATION UNITS: /L or ug/Kg) <u>UG/L</u> | Q |
| 309-00-2Aldrin 319-84-6alpha-BHC 319-85-7beta-BHC 58-89-9garma-BHC (Li 319-86-8delta-BHC 72-54-84,4'-DDD 72-55-94,4'-DDE 50-29-34,4'-DDT 60-57-1Dieldrin 959-98-8Endosulfan II 1031-07-8Endosulfan Su 72-20-8Endrin 7421-93-4Endrin 7421-93-4Endrin aldehy 5103-71-9alpha-Chlorda 5103-74-2garma-Chlorda 76-44-8Heptachlor 1024-57-3 | ndane) | 0.050 0.017 0.050 0.033 0.022 0.037 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 | |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8081 - TCL PESTICIDES ANALYSIS DATA SHEET

| | MW-BS5 |
|---|---|
| Lab Name: STL Buffalo Contrac | t: |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: |
| Matrix: (soil/water) <u>WATER</u> | Lab Sample ID: <u>A6D76805</u> |
| Sample wt/vol: <u>1000.00</u> (g/mL) <u>ML</u> | Lab File ID: <u>5A10075.TX0</u> |
| % Moisture: decanted: (Y/N) N | Date Samp/Recv: <u>11/15/2006</u> <u>11/16/2006</u> |
| Extraction: (SepF/Cont/Sonc/Soxh): SEPF | Date Extracted: <u>11/20/2006</u> |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: <u>11/21/2006</u> |
| Injection Volume:1.00(uL) | Dilution Factor:1.00 |
| GPC Cleanup: (Y/N) N pH: 6.00 | Sulfur Cleanup: (Y/N) N |
| | CONCENIRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q |
| 309-00-2Aldrin 319-84-6alpha-BHC 319-85-7beta-BHC 58-89-9gamma-BHC (Lindane) 319-86-8delta-BHC 72-54-84,4'-DDD 72-55-94,4'-DDE 50-29-34,4'-DDT 60-57-1Dieldrin 959-98-8Endosulfan I 33213-65-9Endosulfan II 1031-07-8Endrin 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 76-44-8Heptachlor 1024-57-3Heptachlor 8001-35-2Methoxychlor 8001-35-2Toxaphene | 0.050 U 0.050 U 0.019 J 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U |
| 53494-70-5Endrin ketone | 0.050 U |

IABELLA ASSOCIATES IABELLA ASSOCIATES METHOD 8081 - TCL PESTICIDES ANALYSIS DATA SHEET

| | MW-BS6 |
|--|---|
| Lab Name: SIL Buffalo Contract: | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: |
| Matrix: (soil/water) <u>WATER</u> | Lab Sample ID: A6D76807 |
| Sample wt/vol: 1000.00 (g/mL) ML | Lab File ID: <u>5B10096.TX0</u> |
| % Moisture: decanted: (Y/N) N | Date Samp/Recv: <u>11/15/2006</u> <u>11/16/200</u> |
| Extraction: (SepF/Cont/Sonc/Soxh): <u>SEPF</u> | Date Extracted: 11/20/2006 |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: <u>11/22/2006</u> |
| Injection Volume:1.00(uL) | Dilution Factor: 1.00 |
| GPC Cleanup: (Y/N) N pH: 6.00 | Sulfur Cleanup: (Y/N) N |
| CONCENTRAL COMPOUND (ug/L o | RATION UNITS: or ug/Kg) <u>UG/L </u> |
| 309-00-2Aldrin 319-84-6alpha-EHC 319-85-7beta-EHC 58-89-9gamma-EHC (Lindane) 319-86-8delta-EHC 72-54-84,4'-DDD 72-55-94,4'-DDE 50-29-34,4'-DDT 60-57-1Dieldrin 959-98-8Endosulfan II 33213-65-9Endosulfan Sulfate 72-20-8Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 5103-74-2gamma-Chlordane 76-44-8Heptachlor 1024-57-3Heptachlor epoxide 72-43-5Methoxychlor 8001-35-2Toxaphene 53494-70-5Endrin ketone | 0.050 U 0.050 U 0.020 J 0.019 J 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U 0.050 U |

IABELLA ASSOCIATES IABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

| | MW-BH5 |
|--|--|
| Lab Name: <u>SIL Buffalo</u> Contra | ct: |
| Lab Code: <u>RECNY</u> Case No.: SAS No. | : SDG No.: |
| Matrix: (soil/water) WATER | Lab Sample ID: A6D76801 |
| Sample wt/vol: <u>1000.00</u> (g/mL) <u>ML</u> | Lab File ID: 19A82024.TX0 |
| % Moisture: decanted: (Y/N) N | Date Samp/Recv: <u>11/15/2006</u> <u>11/16/2006</u> |
| Extraction: (SepF/Cont/Sonc/Soxh): SEPF | Date Extracted: <u>11/20/2006</u> |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: <u>11/21/2006</u> |
| Injection Volume:1.00(uL) | Dilution Factor:1.00 |
| GPC Cleanup: (Y/N) N pH: 6.00 | Sulfur Cleanup: (Y/N) N |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 11096-82-5Aroclor 1260 | 0.50 U 0.50 U 0.50 U 0.50 U 0.50 U 0.50 U 0.50 U 0.50 U 0.50 U |

0.50

U

Client No.

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

MW-BH6 Lab Name: STL Buffalo Contract: _____ SAS No.: ____ SDG No.: _ Lab Code: RECNY Case No.: A6D76803 Lab Sample ID: Matrix: (soil/water) WATER Lab File ID: 19A82025.TX0 Sample wt/vol: 1000.00 (g/mL) ML Date Samp/Recv: 11/15/2006 11/16/2006 % Moisture: decanted: (Y/N) N Date Extracted: 11/20/2006 Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Analyzed: <u>11/21/2006</u> Concentrated Extract Volume: 10000 (uL) Dilution Factor: ____1.00 Injection Volume: 1.00 (uL) Sulfur Cleanup: (Y/N) N GPC Cleanup: (Y/N) N pH: 6.00 CONCENTRATION UNITS: (uq/L or ug/Kg) <u>UG/L</u> CAS NO. COMPOUND 0.50 U 12674-11-2----Aroclor 1016 0.50 U 11104-28-2---Aroclor 1221 0.50 U 11141-16-5----Aroclor 1232 U 0.50 53469-21-9----Aroclor 1242 U 0.50 12672-29-6----Aroclor 1248 0.50 U 11097-69-1----Aroclor 1254

11096-82-5----Aroclor 1260

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

| MW-BS5 |
|--|
| t: |
| SDG No.: |
| Lab Sample ID: A6D76805 |
| Lab File ID: 19A82026.TX0 |
| Date Samp/Recv: <u>11/15/2006</u> <u>11/16/2006</u> |
| Date Extracted: <u>11/20/2006</u> |
| Date Analyzed: <u>11/21/2006</u> |
| Dilution Factor: 1.00 |
| Sulfur Cleanup: (Y/N) N |
| CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q |
| 0.50 U 0.50 U 0.50 U 0.50 U 0.50 U 0.50 U 0.50 U |
| |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

| | | MW-BS6 |
|--|---|---------------------------------------|
| Lab Name: STL Buffalo Contract | t: | · · · · · · · · · · · · · · · · · · · |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) WATER | Lab Sample ID: | A6D76807 |
| Sample wt/vol: <u>1000.00</u> (g/mL) <u>ML</u> | Lab File ID: | 19A82027.TX0 |
| % Moisture: decanted: (Y/N) N | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SEPF | Date Extracted: | 11/20/2006 |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: | 11/21/2006 |
| Injection Volume: 1.00 (uL) | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: 6.00 | Sulfur Cleanup: | (X/N) $\overline{\lambda}$ |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> | Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 | 0.50 0.50 0.50 0.50 0.50 | บ บ บ บ |
| 11097-69-1Aroclor 1254 11096-82-5Aroclor 1260 | 0.50 | Ü |

- 1 -INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D768

Method Type:

Sample ID: A6D76801

Client ID: MW-BH5

Matrix:

WATER

Date Received:

11/16/2006

Date Collected:

11/15/2006 Level:

LOW

% Solids:

Sample Wt/Vol:

50.0

Final Vol:

50.0

Prep Batch ID:

A6B30544

Prep Date:

11/21/2006

| | | | | | | | | | Analy | tical | | | |
|-----------|-----|---------------|--------|-----|------|-------|-------|-----|------------|----------|------------|----------|------------|
| Analyte | | Concentration | Units | C | Qual | RL | RL | Dil | Date | Time | Instrument | Run | M |
| Aluminum | | 661 | ug/L | | | 200 | 200 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Antimony | < | 20.0 | ug/L | U | | 20.0 | 20.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Arsenic | | 1.45 | ug/L | | | 1.00 | 1.00 | 1 | 11/21/2006 | 19:48:07 | ELAN-ICPMS | E112106A | M |
| Barium | | 619 | ug/L | | | 2.0 | 2.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Beryllium | < | 2.0 | ug/L . | U | | 2.0 | 2.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Cadmium | < | 1.0 | ug/L | U | | 1.0 | 1.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Calcium | , | 210000 | ug/L | | - | 500 | 500 | . 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | · P |
| Chromium | < | 4.0 | ug/L | U | | 4.0 | 4.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Cobalt | < ' | 4.0 | ug/L | · U | | 4.0 | 4.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Copper | < | 10.0 | ug/L | U | | 10.0 | 10.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Iron | | 11000 | ug/L | | | 50.0 | 50.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Magnesium | | 36500 | ug/L | | | 200 | 200 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Manganese | | 2690 | ug/L | | | 3.0 | 3.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Nickel | < | 10.0 | ug/L | U | | 10.0 | 10.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Potassium | | 21100 | ug/L | | | 500 | 500 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Selenium | < | 15.0 | ug/L | U | | 15.0 | 15.0 | i | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Silver | < | 3.0 | ug/L | U | | 3.0 | 3.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Mercury | < | 0.200 | ug/L | U | | 0.200 | 0.200 | 1 | 11/21/2006 | 13:14:36 | LEEMAN PS2 | L21121Wv | CV |
| Sodium | | 430000 | ug/L | | | 5000 | 5000 | 5 | 11/22/2006 | 23:43 | SUPERTRACE | 111220x | P |
| Thallium | < | 20.0 | ug/L | U | | 20.0 | 20.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Vanadium | < | 5.0 | ug/L | U | | 5.0 | 5.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Zinc | | 59.0 | ug/L | | | 10.0 | 10.0 | 1 | 11/22/2006 | 02:11 | SUPERTRACE | 111210x | P |
| Lead | < | 1.00 | ug/L | U | | 1.00 | 1.00 | 1 | 11/21/2006 | 19:48:07 | ELAN-ICPMS | E112106A | М |

- 1 -INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D768

Method Type:

Sample ID: A6D76803

Client ID: MW-BH6

Matrix:

WATER

Date Received:

11/16/2006

Date Collected:

11/15/2006

Level:

LOW

% Solids:

Sample Wt/Vol:

50.0

Final Vol:

50.0

Prep Batch ID:

A6B30544

Prep Date:

11/21/2006

| | | <u> </u> | | | | • | | | Analy | tical | | | |
|-----------|-----|---------------|-------|---|------|-------|---------------|-----|------------|----------|------------|----------|----|
| Analyte | | Concentration | Units | C | Quai | RL | \mathbf{RL} | Dil | Date | Time | Instrument | Run | M |
| Aluminum | | 660 | ug/L | | | 200 | 200 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Antimony | . < | 20.0 | ug/L | U | | 20.0 | 20.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Arsenic | | 1.81 | ug/L | | | 1.00 | 1.00 | 1 | 11/21/2006 | 19:52:02 | ELAN-ICPMS | E112106A | M |
| Barium | | 378 | ug/L | | | 2.0 | 2.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Beryllium | < | 2.0 | ug/L | U | | 2.0 | 2.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Cadmium | < | 1.0 | ug/L | U | | 1.0 | 1.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Calcium | | 388000 | ug/L | | | 500 | 500 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Chromium | < | 4.0 | ug/L | U | | 4.0 | 4.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Cobalt | < | 4.0 | ug/L | U | | 4.0 | 4.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Copper | < | 10.0 | ug/L | U | | 10.0 | 10.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Iron | | 5820 | ug/L | | | 50.0 | 50.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Magnesium | | 80100 | ug/L | | | 200 | 200 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Manganese | | 1550 | ug/L | | | 3.0 | 3.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Nickel | < | 10.0 | ug/L | U | | 10.0 | 10.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Potassium | | 18200 | ug/L | | | 500 | 500 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Selenium | < | 15.0 | ug/L | Ū | | 15.0 | 15.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Silver | < | 3.0 | ug/L | U | | 3.0 | 3.0 | . 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Mercury | < | 0.200 | ug/L | U | | 0.200 | 0.200 | 1 | 11/21/2006 | 13:16:01 | LEEMAN PS2 | L21121Wv | CV |
| Sodium | | 348000 | ug/L | | | 1000 | 1000 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Thallium | < | 20.0 | ug/L | U | | 20.0 | 20.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Vanadium | < | 5.0 | ug/L | U | | 5.0 | 5.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Zinc | | 103 | ug/L | | | 10.0 | 10.0 | 1 | 11/22/2006 | 02:17 | SUPERTRACE | 111210x | P |
| Lead | < | 1.00 | ug/L | U | | 1.00 | 1.00 | 1 | 11/21/2006 | 19:52:02 | ELAN-ICPMS | E112106A | M |

-1-INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D768

Method Type:

Sample ID: A6D76805

Client ID: MW-BS5

Matrix:

WATER

Date Received:

11/16/2006

Date Collected:

11/15/2006

Level:

LOW

% Solids:

Sample Wt/Vol:

50.0

Final Vol:

50.0

Prep Batch ID:

A6B30544

Prep Date:

11/21/2006

| | | | Analytical | | | | | | | | | | |
|-----------|---|---------------|------------|----------------------|------|---------------|-------|-----|------------|----------|------------|----------|------------|
| Analyte | · | Concentration | Units | C | Qual | \mathbf{RL} | RL | Dil | Date | Time | Instrument | Run | M |
| Aluminum | , | 731 | ug/L | | | 200 | 200 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Antimony | < | 20.0 | ug/L | U | | 20.0 | 20.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Arsenic | | 1.62 | ug/L | | | 1.00 | 1.00 | 1 | 11/21/2006 | 19:55:57 | ELAN-ICPMS | E112106A | M |
| Barium | | 645 | ug/L | | | 2.0 | 2.0 | - 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Beryllium | < | 2.0 | ug/L | U | | 2.0 | 2.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Cadmium | < | 1.0 | ug/L | U | | 1.0 | 1.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Calcium | | 216000 | ug/L | | | 500 | 500 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Chromium | < | 4.0 | ug/L | U | | 4.0 | 4.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Cobalt | < | 4.0 | ug/L | U | | 4.0 | 4.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Copper | < | 10.0 | ug/L | U | | 10.0 | 10.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Iron | | 12100 | ug/L | | | 50.0 | 50.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Magnesium | | 37500 | ug/L | | | 200 | 200 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Manganese | | 2770 | ug/L | | | 3.0 | 3.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Nickel | < | 10.0 | ug/L | U | | 10.0 | 10.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Potassium | | 21900 | ug/L | | | 500 | 500 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | . P |
| Selenium | < | 15.0 | ug/L | \mathbf{U}^{\cdot} | | 15.0 | 15.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Silver | < | 3.0 | ug/L | U | | 3.0 | 3.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Mercury | < | 0.200 | ug/L | U | | 0.200 | 0.200 | 1 | 11/21/2006 | 13:20:19 | LEEMAN PS2 | L21121Wv | CV |
| Sodium | | 444000 | ug/L | | | 5000 | 5000 | 5 | 11/22/2006 | 23:48 | SUPERTRACE | 111220x | P |
| Thallium | < | 20.0 | ug/L | U | | 20.0 | 20.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Vanadium | < | 5.0 | ug/L | Ų | | 5.0 | 5.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Zinc | | 61.8 | ug/L | | | 10.0 | 10.0 | 1 | 11/22/2006 | 02:22 | SUPERTRACE | 111210x | P |
| Lead | < | 1.00 | ug/L | U | | 1.00 | 1.00 | 1 | 11/21/2006 | 19:55:57 | ELAN-ICPMS | E112106A | M |

INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D768

Method Type:

Sample ID: A6D76807

Matrix: WATER

Date Received:

11/16/2006

Client ID: MW-BS6 Date Collected:

11/15/2006 Level: LOW

% Solids:

Sample Wt/Vol:

50.0

Final Vol:

50.0

Prep Batch ID:

A6B30544

Prep Date:

11/21/2006

| | | | | | | | | | Analy | tical | | | |
|-----------|---|---------------|-------|---|------|-------|-------|-----|------------|----------|------------|----------|----|
| Analyte | ٠ | Concentration | Units | C | Qual | RL | RL | Dil | Date | Time | Instrument | Run | M |
| Aluminum | | 911 | ug/L | | | 200 | 200 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Antimony | < | 20.0 | ug/L | U | | 20.0 | 20.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Arsenic | | 1.88 | ug/L | | | 1.00 | 1.00 | 1 | 11/21/2006 | 19:59:47 | ELAN-ICPMS | E112106A | M |
| Barium | | 165 | ug/L | | | 2.0 | 2.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Beryllium | < | 2.0 | ug/L | U | | 2.0 | 2.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Cadmium | < | 1.0 | ug/L | U | | 1.0 | 1.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Calcium | | 209000 | ug/L | | | 500 | 500 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Chromium | < | 4.0 | ug/L | U | | 4.0 | 4.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Cobalt | < | 4.0 | ug/L | U | | 4.0 | 4.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Copper | < | 10.0 | ug/L | U | | 10.0 | 10.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Iron | | 2630 | ug/L | | | 50.0 | 50.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Magnesium | | 25700 | ug/L | | | 200 | 200 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Manganese | | 637 | ug/L | | | 3.0 | 3.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Nickel | < | 10.0 | ug/L | U | | 10.0 | 10.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Potassium | | 15200 | ug/L | | | 500 | 500 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Selenium | < | 15.0 | ug/L | U | | 15.0 | 15.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Silver | < | 3.0 | ug/L | U | | 3.0 | 3.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Mercury | < | 0.200 | ug/L | U | | 0.200 | 0.200 | 1 | 11/21/2006 | 13:21:51 | LEEMAN PS2 | L21121Wv | CV |
| Sodium | | 125000 | ug/L | | | 1000 | 1000 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Thallium | < | 20.0 | ug/L | U | | 20.0 | 20.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Vanadium | < | 5.0 | ug/L | U | | 5.0 | 5.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Zinc | | 36.6 | ug/L | | | 10.0 | 10.0 | 1 | 11/22/2006 | 02:27 | SUPERTRACE | 111210x | P |
| Lead | | 12.6 | ug/L | | | 1.00 | 1.00 | 1 | 11/21/2006 | 19:59:47 | ELAN-ICPMS | E112106A | M |

Chain of Custody Record

Amherst, NY 14288 10 Hazelwood Drive

Suite 106

STL Buffalo

SEVERN

Severn Trent Laboratories, Inc. COC No: 4°C Preservative + HNO3 for Metals 4°C Preservative + HNO3 for Metals 4°C Preservative + HNO3 for Metals 4°C Preservative + HNO3 for Metals 206377 Phase 2a Sample Specific Notes: Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client X pisposal By Lab Archive For Month // -/6 -06. Date/Time: HCl Preservative HCI Preservative HCI Preservative HCI Preservative Date/Time: Date/Time: Job No. SDG No. في 16-Nov-06 Company: Carrier: Lab Courier Company: Company: Site Contact: Craig A. Stiles Lab Contact: Jason Kikalski × × × × [AL Metals × × × × × × Received by: × CBS × × × LCL SVOCs (8270C) No X No X LCL VOCs (8260B) × Date/Time: R 11/16/06 @ /43 Date/Time: R Unknown € Cont ASP Category B Deliverables Date/Time: Water Water Water Water Water Matrix Water Water Water × Project Manager: Mr. Dennis Porter Analysis Turnaround Time Fel/Fax: (585) 454-6110 / 454-3066 Calendar (C) or Work Days (W) Poison B Sample Type Ø₩ TAT if different from Below ĞΨ ß₩ ĞΨ ĞΨ ß ĕ ĕ reservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; S=NaOH; 6= Other Standard 2 weeks 2 days 1 day Company: LaBella Associates, P.C. Sample Time 1442 1442 1225 1325 1420 1525 1100 1220 Skin Irritant 15-Nov-06 15-Nov-06 15-Nov-06 15-Nov-06 Company: 15-Nov-06 15-Nov-06 15-Nov-06 Sample Date 15-Nov-06 Company: Special Instructions/QC Requirements & Comments: Phone FAX Flammable Site: Port of Rochester, Rochester, NY phone 716-691-2600 fax 716-691-7991 Sample Identification Client Contact MW-BH6 мм-вн6 MW-BH5 MW-BH5 MW-BS5 MW-BS5 MW-BS6 MW-BS6 Rochester, New York 14614 00 State Street, Suite 201 roject Name: Port Marina P O # 206377 Phases 2a .aBella Associates, P.C. Non-Hazard 585) 454-6110 Relinquished by: 585) 454-3066



STL Buffalo 10 Hazelwood Drive, Suite 106 Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991 www.stl-inc.com

ANALYTICAL REPORT

Job#: A06-D771

STL Project#: NY2A8951.6

Site Name: <u>LaBella Associates</u>

Task: Proposed Port Marina

Mr. Dan Noll LaBella Associates 300 State St. Suite 201 Rochester, NY 14614

STL Buffalo

Jason R. Kacalski Project Manager

12/03/2006

STL Buffalo Current Certifications

As of 9/28/2006

| STATE | Program | Cert # / Lab ID |
|----------------|----------------------------------|-----------------|
| AFCEE | AFCEE | |
| Arkansas | SDWA, CWA, RCRA, SOIL | 88-0686 |
| California | NELAP CWA, RCRA | 01169CA |
| Connecticut | SDWA, CWA, RCRA, SOIL | PH-0568 |
| Florida | NELAP CWA, RCRA | E87672 |
| Georgia | SDWA, NELAP CWA, RCRA | 956 |
| Illinois | NELAP SDWA, CWA, RCRA | 200003 |
| lowa | SW/CS | 374 |
| Kansas | NELAP SDWA, CWA, RCRA | E-10187 |
| Kentucky | SDWA | 90029 |
| Kentucky UST | UST | 30 |
| Louisiana | NELAP CWA, RCRA | 2031 |
| Maine | SDWA, CWA | NY044 |
| Maryland | . SDWA | 294 |
| Massachusetts | SDWA, CWA | M-NY044 |
| Michigan | SDWA | 9937 |
| Minnesota | SDWA, CWA, RCRA | 036-999-337 |
| New Hampshire | NELAP SDWA, CWA | 233701 |
| New Jersey | SDWA, CWA, RCRA, CLP | NY455 |
| New York | NELAP, AIR, SDWA, CWA, RCRA, ASP | 10026 |
| Oklahoma | CWA, RCRA | 9421 |
| Pennsylvania | NELAP CWA,RCRA | 68-00281 |
| South Carolina | RCRA | 91013 |
| Tennessee | SDWA | 02970 |
| USDA | FOREIGN SOIL PERMIT | S-41579 |
| USDOE | Department of Energy | DOECAP-STB |
| Virginia | SDWA | 278 |
| Washington | CWA,RCRA | C1677 |
| West Virginia | CWA,RCRA | 252 |
| Wisconsin | CWA, RCRA | 998310390 |

Sample Data Summary Package

SAMPLE SUMMARY

| | | | SAMPI | ED | RECEIVED | | |
|---------------|------------------|--------|------------|-------|------------|-------|--|
| LAB SAMPLE ID | CLIENT SAMPLE ID | MATRIX | DATE | TIME | DATE | TIME | |
| A6D77102 | BS-37 (6.0-7.7) | SOIL | 11/10/2006 | 07:45 | 11/16/2006 | 16:20 | |
| A6D77103 | BS-38 (6.0-7.1) | SOIL | 11/10/2006 | 09:00 | 11/16/2006 | 16:20 | |
| A6D77104 | BS-39 (6.0-6.7) | SOIL | | | 11/16/2006 | | |
| A6D77105 | MW-BS39 | WATER | 11/15/2006 | 15:30 | 11/16/2006 | 16:20 | |
| A6D77106 | MW-BS39 | WATER | 11/15/2006 | 16:20 | 11/16/2006 | 16:20 | |
| A6D77101 | Trip Blank | WATER | 11/15/2006 | 06:15 | 11/16/2006 | 16:20 | |

METHODS SUMMARY

Job#: <u>A06-D771</u>

STL Project#: NY2A8951.6
Site Name: LaBella Associates

| PARAMETER | ANALYTICAL METHOD |
|--|----------------------|
| METHOD 8260 - TCL VOLATILE ORGANICS | SW8463 8260 |
| | • |
| METHOD 8270 - TCL SEMI-VOLATTLE ORGANICS | SW8463 8270 |
| NATIONAL OF THE PROPERTY OF TH | SW8463 8081 |
| METHOD 8081 - TCL PESTICIDES | SW8463 8082 |
| METHOD 8082 - POLYCHLORINATED BIPHENYLS | 5W0403 0V02 |
| Aluminum - Total | SW8463 6010 |
| Antimony - Total | SW8463 6010 |
| Arsenic - Total | SW8463 6010 |
| Arsenic - Total | SW8463 6020 |
| Barium - Total | SW8463 6010 |
| Beryllium - Total | SW8463 6010 |
| Cadmium - Total | SW8463 6010 |
| Calcium - Total | SW8463 6010 |
| Chromium - Total | SW8463 6010 |
| Cobalt - Total | SW8463 6010 |
| Copper - Total | SW8463 6010 |
| Iron - Total | SW8463 6010 |
| Lead - Total | SW8463 6010 |
| Lead - Total | SW8463 6020 |
| Magnesium - Total | SW8463 6010 |
| Manganese - Total | SW8463 6010 |
| Mercury - Total | SW8463 7470 |
| Mercury - Total | SW8463 7471 |
| Nickel - Total | SW8463 6010 |
| Potassium - Total | SW8463 6010 |
| Selenium - Total | SW8463 6010 |
| Silver - Total | SW8463 6010 |
| Sodium - Total | SW8463 6010 |
| Thallium - Total | SW8463 6010 |
| Vanadium - Total | SW8463 6010 |
| Zinc - Total | SW8463 6010 |
| | |

References:

SW8463

"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A06-D771

STL Project#: NY2A8951.6

Site Name: <u>LaBella Associates</u>

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-D771

Sample Cooler(s) were received at the following temperature(s); 4.1 $^{\circ}$ C All samples were received in good condition.

GC/MS Volatile Data

Initial calibration standard curve A6I0002149-1 exhibited a percent Relative Standard Deviation (%RSD) of greater than 15% for several compounds. However, the overall mean RSD of all compounds is 10.47%.

Initial calibration standard curve A6I0002155-1 exhibited a percent Relative Standard Deviation (%RSD) of greater than 15% for the compound Methylene Chloride and the surrogate 1,2-Dichloroethane-D4. However, the overall mean RSD of all compounds is 7.75%.

Initial calibration standard curve A6I0002152-1 exhibited a percent Relative Standard Deviation (%RSD) of greater than 15% for compounds Bromomethane, Methylene Chloride and 1,2,4-Trichlorbenzene. However, the overall mean RSD of all compounds is 5.61%.

All water samples were preserved to a pH less than 2.

The analytes Acetone, Bromodichloromethane and Chloroform were detected in the Trip Blank at a level above the reporting limit. The analyte Dibromochloromethane was detected in the Trip Blank at a level below the project established reporting limit. Bromodichloromethane, Chloroform and Dibromochloromethane were not detected in any of the associated samples.

GC/MS Semivolatile Data

The surrogate recovery for 2,4,6-Tribromophenol was below the laboratory quality control limits for sample BS-37 (6.0-7.7). Based on the laboratory SOP, one surrogate in either fraction (base/neutral or acid fraction) may have a recovery outside of the control limit.

Linear regression was used to calibrate analytes that were greater than 15% RSD in the initial calibration curves A6I0002178, A6I0002179 and A6I0002181.

The chromatographic peaks for Benzo(b) fluoranthene and Benzo(k) fluoranthene could not be resolved for sample BS-37 (6.0-7.7) due to the sample matrix. The final value is reported as Benzo(b) fluoranthene in this data package but should be considered an and/or value for both compounds.

GC Extractable Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

The recoveries of sample BS-37 (6.0-7.7) Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Antimony, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Nickel, Potassium, Selenium, Silver, Sodium Thallium, Vanadium, and Zinc. Sample matrix is suspect. The RPD of sample BS-37 (6.0-7.7) Matrix Spike and Matrix Spike exceeded the quality control limits for Beryllium, Iron, Potassium, Sodium, and Zinc. However, the LCS was acceptable.

The recoveries of sample BS37 (6.0-7.7) Matrix Spike and Matrix Spike Duplicate exhibited results below the quality control limits for Aluminum, Barium, Calcium, Magnesium, and Manganese. The sample result is more than four times greater than the spike added. The RPD of sample BS37 (6.0-7.7) Matrix Spike and Matrix Spike Duplicate exceeded the quality control limits for Manganese. The LCS is acceptable.

The recoveries of sample BS-37 (6.0-7.7) exceeded the quality control limits for Aluminum, Calcium, and Manganese. However, the LCS was acceptable.

The Serial Dilution of sample BS-37 (6.0-7.7) exceeded the quality control limits for Aluminum, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Iron, Magnesium, Manganese, and Vanadium. However, the LCS was acceptable.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Dilution Log w/Code Information For Job A06-D771

Date: 12/08/2006 Time: 16:12:33

Page:

Rept: AN1266R

| Client Sample ID | Lab Sample ID | Parameter (Inorganic)/Method (Organic) | Dilution | Code |
|------------------|---------------|--|----------|------|
| BS-37 (6.0-7.7) | A6D77102 | Aluminum - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Antimony - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Arsenic - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Barium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Beryllium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Cadmium - Total | 10.00 | 200 |
| BS-37 (6.0-7.7) | A6D77102 | Calcium - Total | 10.00 | 800 |
| BS-37 (6.0-7.7) | A6D77102 | Chromium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Cobalt - Total | 10.00 | 200 |
| BS-37 (6.0-7.7) | A6D77102 | Copper - Total | 10.00 | 200 |
| BS-37 (6.0-7.7) | A6D77102 | Iron - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Lead - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Magnesium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Manganese - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Nickel - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Potassium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Selenium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Silver - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Sodium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Thallium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Vanadium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102 | Zinc - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102MS | Aluminum - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102MS | Antimony - Total | 10.00 | 200 |
| BS-37 (6.0-7.7) | A6D77102MS | Arsenic - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102MS | Barium - Total | 10.00 | 200 |
| BS-37 (6.0-7.7) | A6D77102MS | Beryllium - Total | 10.00 | 002 |
| 88-37 (6.0-7.7) | A6D77102MS | Cadmium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102MS | Calcium - Total | 10.00 | 800 |
| BS-37 (6.0-7.7) | A6D77102MS | Chromium - Total | 10.00 | 200 |
| BS-37 (6.0-7.7) | A6D77102MS | Cobalt - Total | 10.00 | 200 |
| 88-37 (6.0-7.7) | A6D77102MS | Copper - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102MS | Iron - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102MS | Lead - Total | 10.00 | 200 |
| BS-37 (6.0-7.7) | A6D77102MS | Magnesium - Total | 10.00 | 002 |
| B\$-37 (6.0-7.7) | A6D77102MS | Manganese - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102MS | Nickel - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102MS | Potassium - Total | 10.00 | 200 |
| BS-37 (6.0-7.7) | A6D77102MS | Selenium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102MS | Silver - Total | 10.00 | 002 |
| | | • | | |

Dilution Code Definition:

002 - sample matrix effects

003 - excessive foaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

 $\tt 006$ - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other

Dilution Log w/Code Information For Job A06-D771

9/2186 Page:

Rept: AN1266R

| Client Sample ID | Lab Sample ID | Parameter (Inorganic)/Method (Organic) | Dilution | Code |
|------------------|---------------|--|----------|------|
| BS-37 (6.0-7.7) | A6D77102MS | Sodium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102MS | Thallium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102MS | Vanadium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102MS | Zinc - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Aluminum - Total | 10.00 | 200 |
| BS-37 (6.0-7.7) | A6D77102SD | Antimony - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Arsenic - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Barium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Beryllium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Cadmium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Calcium - Total | 10.00 | 800 |
| BS-37 (6.0-7.7) | A6D77102SD | Chromium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Cobalt - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Copper - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Iron - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Lead - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Magnesium - Total | 10.00 | 200 |
| BS-37 (6.0-7.7) | A6D77102SD | Manganese - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Nickel - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Potassium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Selenium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Silver - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Sodium - Total | 10.00 | 200 |
| 85-37 (6.0-7.7) | A6D77102SD | Thallium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Vanadium - Total | 10.00 | 002 |
| BS-37 (6.0-7.7) | A6D77102SD | Zinc - Total | 10.00 | 002 |
| BS-38 (6.0-7.1) | A6D77103 | Aluminum - Total | 10.00 | 002 |
| BS-38 (6.0-7.1) | A6D77103 | Antimony - Total | 10.00 | 002 |
| BS-38 (6.0-7.1) | A6D77103 | Arsenic - Total | 10.00 | 002 |
| BS-38 (6.0-7.1) | A6D77103 | Barium - Total | 10.00 | 200 |
| BS-38 (6.0-7.1) | A6D77103 | Beryllium - Total | 10.00 | 200 |
| BS-38 (6.0-7.1) | A6D77103 | Cadmium - Total | 10.00 | 002 |
| BS-38 (6.0-7.1) | A6D77103 | Calcium - Total | 10.00 | 800 |
| BS-38 (6.0-7.1) | A6D77103 | Chromium - Total | 10.00 | 002 |
| BS-38 (6.0-7.1) | A6D77103 | Cobalt - Total | 10.00 | 200 |
| BS-38 (6.0-7.1) | A6D77103 | Copper - Total | 10.00 | 002 |
| BS-38 (6.0-7.1) | A6D77103 | Iron - Total | 10.00 | 002 |
| BS-38 (6.0-7.1) | A6D77103 | Lead - Total | 10.00 | 002 |
| BS-38 (6.0-7.1) | A6D77103 | Magnesium - Total | 10.00 | 002 |
| BS-38 (6.0-7.1) | A6D77103 | Manganese - Total | 10.00 | 002 |
| | | | | |

Dilution Code Definition:

- 002 sample matrix effects
- 003 excessive foaming
- 004 high levels of non-target compounds
- 005 sample matrix resulted in method non-compliance for an Internal Standard
- $006\,$ sample matrix resulted in method non-compliance for Surrogate
- 007 nature of the TCLP matrix
- 008 high concentration of target analyte(s)
- 009 sample turbidity
- 010 sample color
- 011 insufficient volume for lower dilution
- 012 sample viscosity
- 013 other

Rept: AN1266R

Dilution Log w/Code Information For Job A06-D771

Date: 12/08/2006 Time: 16:12:33

> Client Sample ID Lab Sample ID Parameter (Inorganic)/Method (Organic) Dilution Code BS-38 (6.0-7.1) A6D77103 Nickel - Total 10.00 002 BS-38 (6.0-7.1) A6D77103 Potassium - Total 10.00 002 BS-38 (6.0-7.1) A6D77103 Selenium - Total 10.00 002 BS-38 (6.0-7.1) A6D77103 Silver - Total 10.00 002 BS-38 (6.0-7.1) A6D77103 Sodium - Total 10.00 002 BS-38 (6.0-7.1) A6D77103 Thallium - Total 10.00 002 BS-38 (6.0-7.1) A6D77103 Vanadium - Total 10.00 002 BS-38 (6.0-7.1) A6D77103 10.00 002 Zinc - Total BS-39 (6.0-6.7) A6D77104 Aluminum - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Antimony - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Arsenic - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 10.00 002 Barium - Total BS-39 (6.0-6.7) A6D77104 Beryllium - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Cadmium - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Calcium - Total 10.00 800 BS-39 (6.0-6.7) A6D77104 10.00 002 Chromium - Total BS-39 (6.0-6.7) A6D77104 Cobalt - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Copper - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Iron - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Lead - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Magnesium - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Manganese - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Nickel - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Potassium - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Selenium - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Silver - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Sodium - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Thallium - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Vanadium - Total 10.00 002 BS-39 (6.0-6.7) A6D77104 Zinc - Total 10.00 002 MW-BS39 A6D77105 Sodium - Total 5.00 008 MW-BS39 A6D77106 8260 2.00 003

Dilution Code Definition:

002 - sample matrix effects

003 - excessive feaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| CUSTOMER SAMPLE ID | LABORATORY SAMPLE ID | | S | | | | | |
|-----------------------|-------------------------|--------------|----------------|-----------|-------------|--------|--------------|------------------|
| | | VOA GC/MS | BNA . GC/MS | VOA GC | PEST PCB | METALS | TCLP HERB | WATER QUALITY |
| BS-37 (6.0-7.7) | A6D77102 | SW8463 | SW8463 | - | SW8463 | SW8463 | | - |
| BS-38 (6.0-7.1) | A6D77103 | SW8463 | SW8463 | - | SW8463 | SW8463 | - | - |
| BS-39 (6.0-6.7) | A6D77104 | SW8463 | SW8463 | - | SW8463 | SW8463 | - | - |
| MW-BS39 | A6D77106 | SW8463 | SW8463 | - | SW8463 | SW8463 | - | _ |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| SAMPLE IDENTIFICATION | MATRIX. | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|--------------------------|---------|-------------------|----------------------------|-------------------|------------------|
| BS-37 (6.0-7.7) | SOIL | 11/10/2006 | 11/16/2006 | - | 11/21/2006 |
| BS-38 (6.0-7.1) | SOIL | 11/10/2006 | 11/16/2006 | · - | 11/21/2006 |
| BS-39 (6.0-6.7) | SOIL | 11/10/2006 | 11/16/2006 | - | 11/21/2006 |
| MW-BS39 | WATER | 11/15/2006 | 11/16/2006 | , | 11/22/2006 |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY B\N-A ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|-----------------------|--------|-------------------|----------------------------|-------------------|------------------|
| BS-37 (6.0-7.7) | SOIL | 11/10/2006 | 11/16/2006 | 11/24/2006 | 11/28/2006 |
| BS-38 (6.0-7.1) | SOIL | 11/10/2006 | 11/16/2006 | 11/24/2006 | 11/28/2006 |
| BS-39 (6.0-6.7) | SOIL | 11/10/2006 | 11/16/2006 | 11/24/2006 | 11/28/2006 |
| MW-BS39 | WATER | 11/15/2006 | 11/16/2006 | 11/18/2006 | 11/24/2006 |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY PESTICIDE/PCB ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|--------------------------|--------|-------------------|----------------------------|-------------------|------------------|
| BS-37 (6.0-7.7) | SOIL | 11/10/2006 | 11/16/2006 | 11/24/2006 | 11/25/2006 |
| BS-38 (6.0-7.1) | SOIL | 11/10/2006 | 11/16/2006 | 11/24/2006 | 11/25/2006 |
| BS-39 (6.0-6.7) | SOIL | 11/10/2006 | 11/16/2006 | 11/24/2006 | 11/25/2006 |
| MW-BS39 | WATER | 11/15/2006 | 11/16/2006 | 11/20/2006 | 11/21/2006 |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYTICAL SUMMARY INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| SAMPLE IDENTIFICATION | MATRIX | METALS REQUESTED | DATE RECEIVED AT LAB | DATE DIGESTED | DATE ANALYZED |
|--------------------------|--------|---------------------|----------------------------|------------------|------------------|
| BS-37 (6.0-7.7) | SOIL | TAL ME | 11/16/2006 | 11/21/2006 | 11/21-11/22/2006 |
| BS-38 (6.0-7.1) | SOIL | TAL ME | 11/16/2006 | 11/21/2006 | 11/21-11/22/2006 |
| BS-39 (6.0-6.7) | SOIL | TAL ME | 11/16/2006 | 11/21/2006 | 11/21-11/22/2006 |
| MW-BS39 | WATER | TAL ME | 11/16/2006 | 11/20/2006 | 11/20-11/22/2006 |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY ORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| SAMPLE IDENTIFICATION | MATRIX | ANALYTICAL PROTOCOL | EXTRACTION METHOD | AUXILIARY CLEAN UP | DIL/CONC FACTOR |
|--------------------------|--------|------------------------|----------------------|-----------------------|--------------------|
| BS-37 (6.0-7.7) | SOIL | SW8463 | SONC | AS REQUIRED | AS REQUIRED |
| BS-38 (6.0-7.1) | SOIL | SW8463 | SONC | AS REQUIRED | AS REQUIRED |
| BS-39 (6.0-6.7) | SOIL | SW8463 | SONC | AS REQUIRED | AS REQUIRED |
| MW-BS39 | WATER | SW8463 | SEPF | AS REQUIRED | AS REQUIRED |

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC. DIL/CONC MATRIX ANALYTICAL DIGESTION MATRIX LABORATORY MODIFIER **FACTOR** PROCEDURE **PROTOCOL** SAMPLE CODE AS REQUIRED SW8463 AS REQUIRED SOIL BS-37 (6.0-7.7) SW8463 AS REQUIRED AS REQUIRED SW8463 BS-38 (6.0-7.1) SOIL SW8463

BS-39 (6.0-6.7) SOIL SW8463 SW8463 AS REQUIRED AS REQUIRED

MW-BS39 WATER SW8463 SW8463 AS REQUIRED AS REQUIRED



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroctor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- indicates coelution.
- Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interierences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0-7.7) | BS-37 (6.0

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/H | (g) | UG/KG | Q |
|------------|-----------------------------|---------------|-----|-------------|----------|
| 67-64-1 | -Acetone | | | 13 | J |
| 71-43-2 | -Benzene | | | 5 | U |
| 75-27-4 | -Bromodichloromethane | | | 5 | U |
| 75-25-2 | Bromoform | | | 5 | U |
| 74-83-9 | -Bromomethane | | | 5 | ע |
| 78-93-3 | 2-Butanone | | | 27 | U |
| 75-15-0 | Carbon Disulfide | | | 5 | ן י ט |
| | Carbon Tetrachloride | | | 5 | ט |
| 108-90-7 | Chlorobenzene | | | 5 | ע |
| 75-00-3 | Chloroethane | | | 5 5 5 | ט |
| 67-66-3 | Chloroform | | | | U |
| 74-87-3 | Chloromethane | | | 5 5 | ע |
| 110-82-7 | Cyclohexane | | | | ן ט |
| 106-93-4 | 1,2-Dibromoethane | , | | 5 | ប |
| 124-48-1 | Dibromochloromethane | | | 5 | ן ט |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | | 5 | ט |
| 95-50-1 | 1,2-Dichlorobenzene | | | 5 | ן ט |
| | 1,3-Dichlorobenzene | | | 5 | ע |
| 106-46-7 | 1,4-Dichlorobenzene | | | 5 | U |
| 75-71-8 | Dichlorodifluoromethane | | | 5 | ט |
| 75-34-3 | 1,1-Dichloroethane | | | 5 | ט |
| 107-06-2 | 1,2-Dichloroethane | | | 5 5 | U |
| 75-35-4 | 1,1-Dichloroethene | | | 5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | | 5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | | | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | | | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | | 5 | U |
| | trans-1,3-Dichloropropene | | | 5 | U |
| 100-41-4 | Ethylbenzene | | | 5 | U |
| 591-78-6 | | | | 27 | U |
| 98-82-8 | Isopropylbenzene | | | 5 | U |
| | Methyl acetate | | | 5 | υ |
| | Methylcyclohexane | | | 5 | U |
| | Methylene chloride | | | 16 | |

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LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

BS-37 (6.0-7.7) Lab Name: STL Buffalo Contract: Lab Code: RECNY Case No.: ____ SAS No.: ___ SDG No.: ___ Matrix: (soil/water) SOIL Lab Sample ID: A6D77102 Sample wt/vol: __<u>5.14</u> (g/mL) G Lab File ID: P5303.RR (low/med) <u>LOW</u> Level: Date Samp/Recv: <u>11/10/2006</u> <u>11/16/2006</u> % Moisture: not dec. ____9 Heated Purge: Y Date Analyzed: 11/21/2006 GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm) Dilution Factor: ____1.00 Soil Extract Volume: ____ (uL) Soil Aliquot Volume: ____ (uL) CONCENTRATION UNITS: CAS NO. COMPOUND (uq/L or uq/Kq) UG/KG Q 108-10-1----4-Methyl-2-pentanone 27 U 1634-04-4----Methyl-t-Butyl Ether (MIBE) 5 U 100-42-5----Styrene 5 U 79-34-5----1,1,2,2-Tetrachloroethane 5 U 127-18-4----Tetrachloroethene 5 U 108-88-3-----Toluene 5 U 120-82-1----1,2,4-Trichlorobenzene 5 U 71-55-6----1,1,1-Trichloroethane 5 U 79-00-5-----1,1,2-Trichloroethane 5 U 76-13-1----1,1,2-Trichloro-1,2,2-trifluoroethane 5

75-69-4----Trichlorofluoromethane

79-01-6----Trichloroethene

75-01-4----Vinyl chloride

1330-20-7----Total Xylenes

IABELLA ASSOCIATES LABELLA ASSOCIATES 8260 - TOL VOLATILE ORGA

METHOD 8260 - TCL VOLATTLE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

BS-37 (6.0-7.7)

| Lab Name: STL Buffalo Contract: | |
|--|---|
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: |
| Matrix: (soil/water) SOIL | Lab Sample ID: A6D77102 |
| Sample wt/vol: $\underline{5.14}$ (g/mL) \underline{G} | Lab File ID: P5303.RR |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: <u>11/10/2006</u> <u>11/16/2006</u> |
| % Moisture: not dec. <u>8.8</u> | Date Analyzed: <u>11/21/2006</u> |
| GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm) | Dilution Factor: 1.00 |
| Soil Extract Volume: (uL) | Soil Aliquot Volume: (uL) |
| | |

CONCENTRATION UNITS:
(ug/L or ug/Kg) <u>UG/KG</u>

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---|---|--|----------------------------------|------------------------|
| 1. 2. 3. 4. 5. 259-79-0 6. | ETHYLNAPHTHALENE ISOMER DIMETHYLNAPHTHALENE ISOMER DIMETHYLNAPHTHALENE ISOMER DIMETHYLNAPHTHALENE ISOMER BIPHENYLENE METHYLNAPHTHALENE ISOMER | 14.98 15.74 16.66 17.86 18.99 22.55 | 33 41 57 15 26 10 | J J J JN J |

Number TICs found: 6

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

PG-38 (6 0-7 1)

| Lab Name: STL Buffa | <u>lo</u> | Contract: | | 20 30 (0.0 7.17 |
|--------------------------|--------------------|-----------|-------------|--|
| Lab Code: <u>RECNY</u> | Case No.: | SAS No.: | SDG No.: _ | |
| Matrix: (soil/water |) <u>soil</u> | | Lab Sample | ID: <u>A6D77103</u> |
| Sample wt/vol: | 5.11 (g/mL) | <u>G</u> | Lab File II |): <u>P5304.RR</u> |
| Level: (low/med) | LOW | | Date Samp/R | ecv: <u>11/10/2006</u> <u>11/16/2006</u> |
| % Moisture: not dec | . <u>3</u> Heated | Purge: Y | Date Analyz | red: <u>11/21/2006</u> |
| GC Column: <u>DB-624</u> | ID: <u>0.25</u> (m | m) | Dilution Fa | ctor: <u>1.00</u> |
| Soil Extract Volume | : (uL) | | Soil Alique | ot Volume: (uL) |
| | | | | |

CONCENIRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q 67-64-1-----Acetone IJ 25 71-43-2----Benzene 5 U 75-27-4-----Bromodichloromethane 5 U 75-25-2-----Bromoform 5 U 74-83-9-----Bromomethane 5 U 78-93-3----2-Butanone 25 U 75-15-0-----Carbon Disulfide 5 U 56-23-5-----Carbon Tetrachloride 5 U 108-90-7-----Chlorobenzene 5 U 75-00-3-----Chloroethane 5 U 67-66-3-----Chloroform 5 U 74-87-3-----Chloromethane 5 U 110-82-7-----Cyclohexane 5 U 106-93-4----1, 2-Dibromoethane 5 U 124-48-1-----Dibromochloromethane 5 U 96-12-8----1,2-Dibromo-3-chloropropane 5 U 95-50-1----1,2-Dichlorobenzene 5 U 541-73-1----1,3-Dichlorobenzene 5 U 106-46-7----1,4-Dichlorobenzene 5 U 75-71-8-----Dichlorodifluoromethane 5 U 75-34-3-----1,1-Dichloroethane 5 U 107-06-2----1,2-Dichloroethane 5 U 75-35-4----1,1-Dichloroethene 5 Ú 156-59-2----cis-1,2-Dichloroethene 5 U 156-60-5----trans-1,2-Dichloroethene 5 U 78-87-5----1,2-Dichloropropane 5 U 10061-01-5---cis-1,3-Dichloropropene 5 U 10061-02-6---trans-1,3-Dichloropropene 5 U 100-41-4----Ethylbenzene U 5 591-78-6----2-Hexanone 25 U 98-82-8-----Isopropylbenzene 5 U 79-20-9-----Methyl acetate 5 U 108-87-2----Methylcyclohexane 5 U 75-09-2-----Methylene chloride 10

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LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| | | BS-38 (6 | 5.0-7.1) |
|---|--|--------------|---------------|
| ab Name: SIL Buffalo Contract: | | <u> </u> | |
| ab Code: RECNY Case No.: SAS No.: | SDG No.: | - | |
| Matrix: (soil/water) SOIL | Lab Sample ID: | A6D77103 | |
| Sample wt/vol:5.11 (g/mL) G | Lab File ID: | P5304.RR | |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 11/10/200 | 06 11/16/2006 |
| % Moisture: not dec3 Heated Purge: Y | Date Analyzed: | 11/21/200 | <u>)6</u> |
| 3C Column: <u>DB-624</u> ID: <u>0.25</u> (mm) | Dilution Factor | :1.00 | |
| Soil Extract Volume: (uL) | Soil Aliquot Vo | lume: | (uL) |
| · | CONCENTRATION UNITS (ug/L or ug/Kg) | | Q |
| 108-10-14-Methyl-2-pentanone 1634-04-4Methyl-t-Butyl Ether (MIBE) | | 5 | U U |
| 100-42-5Styrene 79-34-51,1,2,2-Tetrachloroethane | | 5. | U U |
| 127-18-4Tetrachloroethene 108-88-3Toluene | | 5 | บ บ |
| 120-82-11,2,4-Trichlorobenzene 71-55-61,1,1-Trichloroethane | | 5 | บ บ |
| 79-00-51,1,2-Trichloroethane 76-13-11,1,2-Trichloro-1,2,2-trifluor | roethane | 5 | U U |
| 75-69-4Trichlorofluoromethane 79-01-6Trichloroethene | | 5 | ָט ט |
| /¬-∪!-4-~V V {' () ₩ | | TU | : U I |

1330-20-7----Total Xylenes

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| Lab Name: STL Buffalo | Contract: | | BS-38 (6.0-7.1) |
|--|------------|---------------------------------------|-----------------------|
| Lab Code: RECNY Case No.: | _ SAS No.: | SDG No.: | |
| Matrix: (soil/water) <u>SOIL</u> | · | Lab Sample ID: | A6D77103 |
| Sample wt/vol: 5.11 (g/mL |) <u>G</u> | Lab File ID: | P5304 .RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 11/10/2006 11/16/2006 |
| % Moisture: not dec. 2.6 | | Date Analyzed: | 11/21/2006 |
| GC Column: <u>DB-624</u> ID: <u>0.25</u> | (mm) | Dilution Factor: | 1.00 |
| Soil Extract Volume: (uL) | | Soil Aliquot Vol | ume: (uL) |
| Number TICs found: _0 | | CONCENTRATION UNIT (ug/L or ug/Kg) | |

Client No.

DC_30 (6 0-6 7)

| Lab Name: SIL Buffalo Contract: | | 155-35 (0.0 0.7) |
|--|------------------|-----------------------|
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6D77104 |
| Sample wt/vol: $\underline{5.13}$ (g/mL) \underline{G} | Lab File ID: | <u>P5305.RR</u> |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 11/10/2006 11/16/2006 |
| % Moisture: not dec. <u>* 5</u> Heated Purge: <u>Y</u> | Date Analyzed: | 11/21/2006 |
| GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm) | Dilution Factor: | 1.00 |
| Soil Extract Volume: (uL) | Soil Aliquot Vol | ume:(uL) |
| | | |

CONCENTRATION UNITS: CAS NO. COMPOUND UG/KG_ (ug/L or ug/Kg) Q 67-64-1-----Acetone J 8 71-43-2----Benzene 5 U 75-27-4----Bromodichloromethane 5 U 75-25-2----Bromoform U 5 74-83-9-----Bromomethane 5 U 78-93-3----2-Butanone 26 U 75-15-0-----Carbon Disulfide 1 J 56-23-5-----Carbon Tetrachloride 5 U 108-90-7----Chlorobenzene 5 U 75-00-3-----Chloroethane 5 U 67-66-3-----Chloroform 5 U 74-87-3-----Chloromethane 5 U 110-82-7-----Cyclohexane 5 U 106-93-4----1,2-Dibromoethane 5 U 124-48-1----Dibromochloromethane 5 U 96-12-8----1,2-Dibromo-3-chloropropane 5 U 95-50-1----1,2-Dichlorobenzene 5 U 541-73-1----1,3-Dichlorobenzene 5 U 106-46-7----1,4-Dichlorobenzene 5 U 75-71-8-----Dichlorodifluoromethane 5 U 75-34-3----1,1-Dichloroethane 5 U 107-06-2----1, 2-Dichloroethane 5 U 75-35-4----1,1-Dichloroethene 5 U 156-59-2----cis-1,2-Dichloroethene 5 U 5 156-60-5----trans-1,2-Dichloroethene U 78-87-5----1,2-Dichloropropane 5 U 10061-01-5---cis-1,3-Dichloropropene 5 U 10061-02-6---trans-1,3-Dichloropropene 5 U 100-41-4----Ethylbenzene 5 U 591-78-6----2-Hexanone U 26 98-82-8-----Isopropylbenzene 5 U 79-20-9------Methyl acetate 5 U 108-87-2----Methylcyclohexane 5 U 75-09-2-----Methylene chloride 13

| Lab Name: SIL Buffalo Contract: | | BS-39 | (6.0-6. | 7) |
|--|--|---|---|---------|
| | | | | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: | | | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6D771 | 04 | |
| Sample wt/vol: $\underline{5.13}$ (g/mL) \underline{G} | Lab File ID: | P5305.1 | RR | |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 11/10/2 | 2006 11/ | 16/2006 |
| % Moisture: not dec5 Heated Purge: Y | Date Analyzed: | 11/21/2 | 2006 | |
| GC Column: <u>DB-624</u> ID: <u>0.25</u> (mm) | Dilution Factor | :1.0 | <u>00</u> | |
| Soil Extract Volume: (uL) | Soil Aliquot Vo | olume: | (1 | ıL) |
| CAS NO. COMPOUND | CONCENTRATION UNITS (ug/L or ug/Kg) | | Q | |
| 120-82-11,2,4-Trichlorobenzene 71-55-61,1,1-Trichloroethane 79-00-51,1,2-Trichloroethane 76-13-11,1,2-Trichloro-1,2,2-trifluor 75-69-4Trichlorofluoromethane | roethane | 26 5 5 5 5 5 5 5 5 5 5 5 | ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט | |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

BS-39 (6.0-6.7)

| Lab Name: | : STL Buffalo | Con | tract: | | L | | | |
|-----------|-------------------------|---------------------|-------------|--------------------------|-------------|---------|--------------|-----------|
| Lab Code: | : <u>RECNY</u> Case | No.: | SAS No.: | SDG No.: _ | | | | |
| Matrix: | (soil/water) <u>SOI</u> | Ļ | | Lab Sample | e ID: | A6D7710 | 4 | |
| Sample wt | :/vol:5 | .13 (g/mL) <u>G</u> | | Lab File | ID: | P5305.R | R | |
| Level: | (low/med) <u>LOW</u> | ! | | Date Samp | /Recv: | 11/10/2 | <u>006</u> 1 | 1/16/2006 |
| % Moistu | re: not dec. <u>5</u> | 5.3 | | Date Analy | yzed: | 11/21/2 | 006 | |
| GC Column | n: <u>DB-624</u> | ID: 0.25 (mm) | | Dilution 1 | Factor: | 1.0 | <u>o</u> | |
| Soil Ext | ract Volume: | (uL) | | Soil Aliq | uot Vol | ume: | | (uL) |
| Number T | ICs found:0 | | | CONCENTRATION (ug/L or u | - | | | |
| | CAS NO. | Cc | mpound Name | RT | Est. | Conc. | Q | |
| | | | | | | | | |

Client No.

| Lab Name: <u>STL Buffalo</u> | Contract: | | MW-BS39 |
|---|-------------------|-------------------|-----------------------|
| DIL DULLATO | WILLIACL: | | |
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: | |
| Matrix: (soil/water) WATER | | Lab Sample ID: | A6D77106 |
| Sample wt/vol: $\underline{5.00}$ (g/mL) | ML | Lab File ID: | Q6765.RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: not dec Heate | d Purge: <u>N</u> | Date Analyzed: | 11/22/2006 |
| GC Column: <u>DB-624</u> ID: <u>0.18</u> (1 | mm) | Dilution Factor: | 2.00 |
| Soil Extract Volume: (uL) | | Soil Aliquot Volu | ume: (uL) |

CAS NO. COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q

| | 00.2002 | (ag/ii or ag/i | 9) | <u>00/11</u> | Q . |
|------------|-----------------------------|----------------|--------|--------------|----------------|
| 67-64-1 | | | | 7.0 | J |
| 71-43-2 | | | | 2.0 | U |
| | Bromodichloromethane | | | 2.0 | U |
| 75-25-2 | | | | 2.0 | U |
| | Bromomethane | | | 2.0 | U |
| 78-93-3 | | | | 10 | U |
| | Carbon Disulfide | | | 1.2 | J |
| | Carbon Tetrachloride | | | 2.0 | ט ו |
| | Chlorobenzene | | | 2.0 | ש |
| | Chloroethane | | | 2.0 | Ū |
| 67-66-3 | | | | 2.0 | U |
| | Chloromethane | | | 2.0 | U |
| 110-82-7 | Cyclohexane | | | 2.0 | U |
| | 1,2-Dibromoethane | | | 2.0 | U |
| | Dibromochloromethane | | | 2.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | | 2.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | | 2.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | | 2.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | | 2.0 | U |
| 75-71-8 | Dichlorodifluoromethane | | | 2.0 | ט |
| 75-34-3 | 1,1-Dichloroethane | | | 2.0 | ט |
| 107-06-2 | 1,2-Dichloroethane | | | 2.0 | ט |
| 75-35-4 | 1,1-Dichloroethene | | | 2.0 | י ט |
| 156-59-2 | cis-1,2-Dichloroethene | | | 2.0 | U |
| | -trans-1,2-Dichloroethene | | | 2.0 | U |
| 78-87-5 | 1,2-Dichloropropane | | | 2.0 | บ |
| 10061-01-5 | cis-1,3-Dichloropropene | | | 2.0 | שׁ |
| 10061-02-6 | trans-1,3-Dichloropropene | | | 2.0 | Ū |
| 100-41-4 | Ethylbenzene | | | 2.0 | Ū |
| 591-78-6 | | | | 10 | Ū |
| | Isopropylbenzene | | | 2.0 | Ū |
| 79-20-9 | Methyl acetate | | | 2.0 | l u |
| | Methylcyclohexane | | | 2.0 | υ |
| | -Methylene chloride | | | 1.7 | BJ |

| , , , , , , , , , , , , , , , , , , , | | MW-BS3 | € | |
|---|------------------------------------|---|--------------|-------|
| Lab Name: STL Buffalo Contract: | | | | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: | | | |
| Matrix: (soil/water) <u>WATER</u> | Lab Sample ID: | A6D7710 | 6 | |
| Sample wt/vol: | Lab File ID: | <u>Q6765.R</u> | <u>R</u> | |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv | : 11/15/2 | 006 11/16 | /2006 |
| % Moisture: not dec Heated Purge: N | Date Analyzed: | 11/22/2 | <u>006</u> | |
| GC Column: <u>DB-624</u> ID: <u>0.18</u> (mm) | Dilution Facto | r:2.0 | <u>0</u> | |
| Soil Extract Volume: (uL) | Soil Aliquot V | olume: | (uL |) |
| | NCENTRATION UNIT ug/L or ug/Kg) | | Q | |
| 108-10-14-Methyl-2-pentanone 1634-04-4Methyl-t-Butyl Ether (MIBE) 100-42-5Styrene 79-34-51,1,2,2-Tetrachloroethane 127-18-4Tetrachloroethene 108-88-3Toluene 120-82-11,2,4-Trichlorobenzene 71-55-61,1,1-Trichloroethane 79-00-51,1,2-Trichloroethane 76-13-11,1,2-Trichloroethane 76-9-4Trichlorofluoromethane 79-01-6Trichloroethene 75-01-4Vinyl chloride 1330-20-7Total Xylenes | ethane | 10 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2. | ממממממממממממ | |

IABELLA ASSOCIATES IABELLA ASSOCIATES HOD 8260 - TCL VOLATILE ORGA

METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| Lab Name | : STL Buffalo | Contract: | _ | MW | 1-BS39 | |
|-----------|---------------------------|---------------------------------------|---------------------------|------------------------|-----------|------------|
| Lab Code | : <u>RECNY</u> Case No | .: SAS No.: | SDG No.: | | | |
| Matrix: | (soil/water) <u>WATER</u> | | Lab Sampi | le ID: <u>A</u> | 6D77106 | |
| Sample w | t/vol: | 0 (g/mL) <u>ML</u> | Lab File | ID: Q | 6765.RR | |
| Level: | (low/med) <u>LOW</u> | | Date Sam | p/Recv: <u>1</u> | 1/15/2006 | 11/16/2006 |
| % Moistu | re: not dec. | e e e e e e e e e e e e e e e e e e e | Date Ana | lyzed: <u>1</u> | 1/22/2006 | <u>.</u> |
| GC Column | n: <u>DB-624</u> ID | :_0.18 (mm) | Dilution | Factor: _ | 2.00 | |
| Soil Ext | ract Volume: | (uL) | Soil Alio | quot Volum | ne: | (uL) |
| Number T | ICs found:0 | | CONCENTRAT: (ug/L or t | ION UNITS: ug/Kg) j | | |
| ļ | CAS NO. | Compound Name | RT | Est. Co | nc. Ç | 2 |
| | | | | | | |

| T 1- 3T- | | G. 1 1 | | Trip Bl | ank |
|-----------|---------------------|--|---------------------------------------|--------------------|---------------|
| Lad Name: | : SIL BUITAIO | Contract: | · · | | |
| Lab Code: | : <u>RECNY</u> Case | e No.: SAS No.: | _ SDG No.: | <u></u> | • |
| Matrix: | (soil/water) W | ATER | Lab Sample ID | : A6D77101 | <u> </u> |
| Sample wi | t/vol: _ | 5.00 (g/mL) <u>ML</u> | Lab File ID: | <u>N2114.RR</u> | <u> </u> |
| Level: | (low/med) <u>L</u> | <u>OW</u> | Date Samp/Rec | v: <u>11/15/20</u> | 06 11/16/2006 |
| % Moistu | re: not dec | Heated Purge: N | Date Analyzed | : 11/20/20 | 06 |
| GC Colum | n: <u>DB-624</u> | ID: <u>0.25</u> (mm) | Dilution Fact | or:1.00 | |
| Soil Ext | ract Volume: _ | (uL) | Soil Aliquot | Volume: | (uL) |
| | | | CONCENTRATION UNI | TS • | • |
| | CAS NO. | | (ug/L or ug/Kg) | | Q |
| | 67-64-1 | -Acetone | | 16 | |
| | 171-43-2 | -Benzene | | 1.0 | ט |
| | 75-27-4 | -Bromodichloromethane | | 2.5 | |
| | 75-25-2 | -Bromoform | | 1.0 | U |
| | | -Bromomethane | | 1.0 | ע |
| | 78-93-3 | -2-Butanone | | 5.0 | ט |
| | 75-15-0 | -2-Butanone -Carbon Disulfide | | 1.0 | ט |
| | 56-23-5 | -Carbon Tetrachloride | | 1.0 | U |
| • | 108-90-7 | -Chlorobenzene | | 1.0 | Ū |
| | 75-00-3 | -Chloroethane | | 1.0 | U |
| ÷ | 67-66-3 | Chlomform | 1 | 6.6 | |
| | | -Chloromethane | | 1.0 | ט |
| | 110-92-7 | Charlabarrana | i i | 1.0 | U |
| | | 1 2 Dibromosthone | | 1.0 | บ |
| | | -Dibromochloromethane | | 0.48 | J |
| | | -1,2-Dibromo-3-chloropropane | | 1.0 | U |
| | | | | 1.0 | บี |
| | | 1,2-bichlorobenzene 1,3-Dichlorobenzene | | 1.0 | |
| | | 1,4-Dichlorobenzene | | 1.0 | lŭ |
| | | Dichlorodifluoromethane | | 1.0 | Ū |
| | | 1,1-Dichloroethane | | 1.0 | บั |
| | | 1,1-bichloroethane | | 1.0 | บี |
| - | | | | 1.0 | υ |
| | | 1,1-Dichloroethene cis-1,2-Dichloroethene | | 1.0 | U |
| | • | cis-1,2-bichloroethene trans-1,2-bichloroethene | | 1.0 | lŭ l |
| | | | | 1.0 | ָט ע |
| | | 1,2-Dichloropropane cis-1,3-Dichloropropene | · · · · · · · · · · · · · · · · · · · | 1.0 | Ū |
| | 1 | cis-1,3-bichioropropene trans-1,3-bichloropropene | | 1.0 | Ü |
| | | | · | 1.0 | υ |
| | 591-78-6 | | | 5.0 | บ |
| | | · · · · · · · · · · · · · · · · · · · | | 1.0 | U U |
| | | Isopropylbenzene | · | 1.0 | υ |
| | | Methyl acetate | | 1.0 | บ |
| | | Methylcyclohexane | | 1.0 | ט |
| | 1/5-09-2 | Methylene chloride | | 1.0 | 19 1 |

| Lab Name , 연판 Duffal | Contract: | · | Trip E | lank | |
|---|---|---------------------------------------|--|---|---------|
| Lab Naile: SIL BULLAL | Officiact: | · | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | |
| Lab Code: <u>RECNY</u> C | ase No.: SAS No.: | _ SDG No.: | | | |
| Matrix: (soil/water) | WATER | Lab Sample ID: | A6D7710 | 1 | |
| Sample wt/vol: | <u>5.00</u> (g/mL) <u>ML</u> | Lab File ID: | N2114.R | R | |
| Level: (low/med) | LOW | Date Samp/Recv | : <u>11/15/2</u> | 006 11/ | 16/2006 |
| % Moisture: not dec. | Heated Purge: N | Date Analyzed: | 11/20/2 | 006 | |
| GC Column: DB-624 | ID: <u>0.25</u> (mm) | Dilution Facto | r: <u>1.0</u> | 0 | |
| Soil Extract Volume: | (uL) | Soil Aliquot V | olume: | · (1 | uL) |
| CAS NO. | | CONCENIRATION UNIT (ug/L or ug/Kg) | | Q | · |
| 1634-04-4 100-42-5 79-34-5 127-18-4 108-88-3 120-82-1 71-55-6 79-00-5 76-13-1 | 1,1,2,2-TetrachloroethaneTetrachloroetheneToluene1,2,4-Trichlorobenzene1,1,1-Trichloroethane1,1,2-Trichloroethane1,1,2-Trichloro-1,2,2-trifluxTrichlorofluoromethaneTrichloroethene | proethane | 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 | ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט | |

LABELLA ASSOCIATES

METHOD 8260 - TCL VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| Tale Name CON DUESSAL | Canadana inte | | Trip Bla | ank | |
|---------------------------------|--------------------|---------------------------|--------------------------------|----------------|-------------|
| Lab Name: SIL BUITALO | Contract: | | | | |
| Lab Code: <u>RECNY</u> Case No. | : SAS No.: | SDG No.: _ | | | |
| Matrix: (soil/water) WATER | | Lab Sampl | e ID: <u>A6D771</u> | 01 | |
| Sample wt/vol: 5.00 |) (g/mL) <u>ML</u> | Lab File | ID: <u>N2114.</u> | RR | |
| Level: (low/med) <u>LOW</u> | | Date Samp | /Recv: <u>11/15/</u> | <u> 2006 1</u> | 1/16/2006 |
| % Moisture: not dec | | Date Anal | yzed: <u>11/20/</u> | 2006 | |
| GC Column: DB-624 ID: | 0.25 (mm) | Dilution | Factor:1. | <u>00</u> | |
| Soil Extract Volume: | (uL) | Soil Aliq | uot Volume: | <u> </u> | (սԼ) |
| Number TICs found:0 | | CONCENTRATI (ug/L or u | ON UNITS: g/Kg) <u>UG/L</u> | <u>-</u> | _ |
| CAS NO. | Compound Name | RT | Est. Conc. | Q | |

Client No.

BS-37 (6.0-7.7)

| Lab Name: STL Buffal | o Contract: | | B3-37 (0.0-7.7) |
|--------------------------|-----------------------|------------------|-----------------------|
| Lab Code: <u>RECNY</u> C | ase No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) | SOIL | Lab Sample ID: | A6D77102 |
| Sample wt/vol: | 30.71 (g/mL) <u>G</u> | Lab File ID: | W13157.RR |
| Level: (low/med) | LOW | Date Samp/Recv: | 11/10/2006 11/16/2006 |
| % Moisture:9 | decanted: (Y/N) N | Date Extracted: | 11/24/2006 |
| Concentrated Extract | Volume: 1000 (uL) | Date Analyzed: | 11/28/2006 |
| Injection Volume: | 1.00 (uL) | Dilution Factor: | 1.00 |
| | | | |

GPC Cleanup: (Y/N) N pH: ____

| CAS NO. | COMPOUND | CONCENTRATION (ug/L or ug/K | | g/KG | Q |
|-----------|------------------------------|--|----------|------|--------------|
| | Acenaphthene | | 35 | 50 | U |
| 208-96-8 | Acenaphthylene | | 35 | 50 | ប |
| 98-86-2 | Acetophenone | | 35 | 50 | U |
| 120-12-7 | | | 35 | 50 | ប |
| 1912-24-9 | | | 35 | 50 | ן ט |
| 100-52-7 | Benzaldehyde | | 35 | 50 | U |
| 56-55-3 | Benzo (a) anthracene | | 6 | 56 | J |
| 205-99-2 | -Benzo (b) fluoranthene | | 9 | 90 . | J |
| | Benzo(k)fluoranthene | | . 35 | 50 | Ծ. |
| 191-24-2 | Benzo(ghi)perylene | | . 3 | 39 | J |
| 50-32-8 | Benzo (a) pyrene | | | 16 | J |
| 92-52-4 | Biphenyl | | 35 | | บ |
| 111-91-1 | Bis(2-chloroethoxy) methane | ······································ | 35 | - | υ |
| 111-44-4 | Bis(2-chloroethyl) ether | | 35 | - | <u>י</u> |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 35 | | Ū |
| 117-81-7 | -Bis(2-ethylhexyl) phthalate | | 35 | | <u>ט</u> |
| 101-55-3 | -4-Bromophenyl phenyl ether_ | ··· | 35 | | ן ט |
| 85-68-7 | -Butyl benzyl phthalate | | 35 | | ט |
| 105-60-2 | Caprolactam | | 35 | | υ |
| 106-47-8 | -4-Chloroaniline | | 35 | | บ็ |
| | -4-Chloro-3-methylphenol | | 35 | | บ |
| 91-58-7 | -2-Chloronaphthalene | | . 35 | | บ |
| 95-57-8 | -2-Chlorophenol | | 35 | | บ |
| 7005-72-3 | -4-Chlorophenyl phenyl ether | | 35 | | ט |
| 86-74-8 | -Carbazole | | 35 | | บ |
| 218-01-9 | | | _ | 51 | J |
| 53-70-3 | -Dibenzo (a, h) anthracene | | 35 | | Ū |
| 132-64-9 | -Dibenzofuran | | 35 | | บ |
| | -Di-n-butyl phthalate | | 35 | | <u>"</u> |
| 91-94-1 | -3,3'-Dichlorobenzidine | | 170 | | ן מ |
| 120-83-2 | -2,4-Dichlorophenol | | 35 | . 1 | ם ו |
| 84-66-2 | -Diethyl phthalate | | 35 35 | | 11 |
| | 220017 Friedrice | | 33 | | ١ |

Client No.

BS-37 (6.0-7.7)

| Lab Name: <u>STL Buffalo</u> | Contract: | | |
|----------------------------------|---------------------|------------------|-----------------------|
| Lab Code: RECNY Case No.: | SAS No.: | SDG No.: | |
| Matrix: (soil/water) SOIL | | Lab Sample ID: | A6D77102 |
| Sample wt/vol: <u>30.71</u> (g/m | nL) <u>G</u> | Lab File ID: | W13157.RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 11/10/2006 11/16/2006 |
| % Moisture: 9 decanted: | (Y/N) <u>N</u> | Date Extracted: | 11/24/2006 |
| Concentrated Extract Volume: 100 | <u>00</u> (uL) | Date Analyzed: | 11/28/2006 |
| Injection Volume: 1.00 (uL) | | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: | · . - | | |

CONCENTRATION UNITS: CAS NO. UG/KG Q COMPOUND (ug/L or ug/Kg) U 105-67-9----2,4-Dimethylphenol 350 131-11-3-----Dimethyl phthalate 350 U 1700 U 534-52-1----4,6-Dinitro-2-methylphenol U 51-28-5----2,4-Dinitrophenol 1700 TT 350 121-14-2----2,4-Dinitrotoluene U 606-20-2----2,6-Dinitrotoluene 350 350 U 117-84-0-----Di-n-octyl phthalate J 206-44-0----Fluoranthene 94 86-73-7----Fluorene 350 U U 118-74-1----Hexachlorobenzene 350 U 87-68-3-----Hexachlorobutadiene 350 U 77-47-4----Hexachlorocyclopentadiene 350 67-72-1----Hexachloroethane 350 U 193-39-5----Indeno (1, 2, 3-cd) pyrene 35 J U 78-59-1----Isophorone 350 91-57-6----2-Methylnaphthalene 350 IJ U 95-48-7----2-Methylphenol 350 106-44-5----4-Methylphenol 350 U U 91-20-3----Naphthalene 350 88-74-4----2-Nitroaniline 1700 IJ U 99-09-2----3-Nitroaniline 1700 U 100-01-6----4-Nitroaniline 1700 U 98-95-3----Nitrobenzene 350 U 88-75-5----2-Nitrophenol 350 U 100-02-7----4-Nitrophenol 1700 U 86-30-6----N-nitrosodiphenylamine 350 U 621-64-7----N-Nitroso-Di-n-propylamine 350 1700 U 87-86-5----Pentachlorophenol J 85-01-8----Phenanthrene 46 108-95-2----Phenol 350 U J 129-00-0----Pyrene 84 U 95-95-4----2,4,5-Trichlorophenol 860

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| Lab Name: STL Buffalo | o Con | ntract: | | BS-37 (6 | .0-7.7) |
|---------------------------|-----------------------|---------|---------------------------------------|-------------------|--------------|
| Lab Code: <u>RECNY</u> Ca | | | | . | |
| Matrix: (soil/water) | SOIL | | Lab Sample ID: | A6D77102 | _ |
| Sample wt/vol: | 30.71 (g/mL) <u>G</u> | | Lab File ID: | <u>W13157.RR</u> | |
| Level: (low/med) | LOW | | Date Samp/Recv: | 11/ 10/200 | 6 11/16/2006 |
| % Moisture:9 | decanted: (Y/N) | N | Date Extracted: | 11/24/200 | <u>6</u> |
| Concentrated Extract | Volume: 1000 (uL) | | Date Analyzed: | 11/28/200 | <u>6</u> |
| Injection Volume: | 1.00 (uL) | | Dilution Factor: | 1.00 | |
| GPC Cleanup: (Y/N) N | <u>M</u> pH: | | | | |
| CAS NO. | COMPOUND | | NCENTRATION UNITS: (ug/L or ug/Kg) | | Q |
| 88-06-2 | 2,4,6-Trichlord | ophenol | | 350 | U |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENIATIVELY IDENTIFIED COMPOUNDS

Client No.

| Lab Name: STL Buffalo Contract: | | | BS-37 (6.0-7.7) |
|---|--|------------------|-----------------------|
| Matrix: (soil/water) SOIL Sample wt/vol: 30.71 (g/mL) G Lab File ID: W13157.RR Level: (low/med) LOW Date Samp/Recv: 11/10/2006 11/16/2006 % Moisture: 8.8 decanted: (Y/N) N Date Extracted: 11/24/2006 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/28/2006 Injection Volume: 1.00 (uL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: | Lab Name: STL Buffalo Contract: | 1 | |
| Sample wt/vol: 30.71 (g/mL) G Lab File ID: W13157.RR Level: (low/med) LOW Date Samp/Recv: 11/10/2006 11/16/2006 % Moisture: 8.8 decanted: (Y/N) N Date Extracted: 11/24/2006 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/28/2006 Injection Volume: 1.00 (uL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: | Lab Code: RECNY Case No.: SAS No.: | SDG No.: | |
| Level: (low/med) LOW Date Samp/Recv: 11/10/2006 11/16/2006 % Moisture: 8.8 decanted: (Y/N) N Date Extracted: 11/24/2006 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/28/2006 Injection Volume: 1.00 (uL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: | Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6D77102 |
| % Moisture:8.8 decanted: (Y/N) _N | Sample wt/vol: 30.71 (g/mL) G | Lab File ID: | W13157.RR |
| Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/28/2006 Injection Volume: 1.00 (uL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: | Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 11/10/2006 11/16/2006 |
| Injection Volume: 1.00 (uL) Dilution Factor: 1.00 GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: | % Moisture: 8.8 decanted: (Y/N) N | Date Extracted: | 11/24/2006 |
| GPC Cleanup: (Y/N) N pH: CONCENTRATION UNITS: | Concentrated Extract Volume: 1000 (uL) | Date Analyzed: | 11/28/2006 |
| CONCENTRATION UNITS: | Injection Volume: 1.00 (uL) | Dilution Factor: | 1.00 |
| | GPC Cleanup: (Y/N) N pH: | | |
| | Number TICs found: _0 | | |

RT

Est. Conc.

Q

Compound Name

CAS NO.

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

BS-38 (6.0-7.1)

| Lab Name: STL Buffal | o Contract: | | |
|--|-----------------------|------------------|-----------------------|
| The state of the s | Officiace. | | |
| Lab Code: <u>RECNY</u> C | ase No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) | SOIL | Lab Sample ID: | A6D77103 |
| Sample wt/vol: | 30.92 (g/mL) <u>G</u> | Lab File ID: | W13158.RR |
| Level: (low/med) | LOW | Date Samp/Recv: | 11/10/2006 11/16/2006 |
| % Moisture: 3 | decanted: (Y/N) N | Date Extracted: | 11/24/2006 |
| Concentrated Extract | Volume: 1000 (uL) | Date Analyzed: | 11/28/2006 |
| Injection Volume: | 1.00 (uL) | Dilution Factor: | 1.00 |

GPC Cleanup: (Y/N) N pH: ____

| | | CONCENTRATION UN | | |
|-----------|---------------------------------------|------------------|--------------|----|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/KG</u> | Q |
| | Acenaphthene | | 330 | Ū |
| 208-96-8 | Acenaphthylene | | 330 | U |
| | Acetophenone | | 330 | ע |
| 120-12-7 | · · · · · · · · · · · · · · · · · · · | - | 330 | שׁ |
| 1912-24-9 | | | 330 | ַט |
| | -Benzaldehyde | | 330 | ַט |
| | -Benzo (a) anthracene | | 26 | J |
| 205-99-2 | Benzo (b) fluoranthene | | 30 | J |
| 207-08-9 | Benzo(k) fluoranthene | | 330 | ש |
| 191-24-2 | -Benzo(ghi)perylene | | 21 | J |
| | Benzo (a) pyrene | | 22 | J |
| 92-52-4 | | | 330 | ש |
| | -Bis(2-chloroethoxy) methane | | 330 | U |
| | Bis(2-chloroethyl) ether | | 330 | Ų |
| | 2,2'-Oxybis(1-Chloropropane) | | 330 | U |
| 117-81-7 | Bis(2-ethylhexyl) phthalate_ | | 84 | J |
| 101-55-3 | -4-Bromophenyl phenyl ether_ | | 330 | U |
| | Butyl benzyl phthalate | | 330 | U |
| 105-60-2 | | | 330 | U |
| | -4-Chloroaniline | | 330 | U |
| 59-50-7 | -4-Chloro-3-methylphenol_ | | 330 | U |
| | -2-Chloronaphthalene | | 330 | U |
| | -2-Chlorophenol_ | | 330 | ַ |
| | -4-Chlorophenyl phenyl ether | | 330 | U |
| 86-74-8 | | | 330 | U |
| 218-01-9 | | | 23 | J |
| | -Dibenzo (a,h) anthracene | | 330 | U |
| | Dibenzofuran | | 330 | Ū |
| | -Di-n-butyl phthalate | | 330 | שׁ |
| | -3,3'-Dichlorobenzidine | | 1600 | U |
| | -2,4-Dichlorophenol | | 330 | U |
| 84-66-2 | -Diethyl phthalate | | 330 | U |

Client No.

| Lab Name: <u>STL Buffa</u>] | <u>Lo</u> Contract: | | BS-38 (6.0-7.1) |
|--|------------------------------|------------------|-----------------------|
| ······································ | | | |
| Lab Code: <u>RECNY</u> (| Case No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) | SOIL | Lab Sample ID: | A6D77103 |
| Sample wt/vol: | <u>30.92</u> (g/mL) <u>G</u> | Lab File ID: | W13158.RR |
| Level: (low/med) | LOW | Date Samp/Recv: | 11/10/2006 11/16/2006 |
| % Moisture:3 | decanted: (Y/N) N | Date Extracted: | 11/24/2006 |
| Concentrated Extract | Volume: 1000 (uL) | Date Analyzed: | 11/28/2006 |
| Injection Volume: | 1.00 (uL) | Dilution Factor: | 1.00 |
| | | | |

GPC Cleanup: (Y/N) N pH: ____

| CONCENTRATION UN | TTC. |
|------------------|------|

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | | Q |
|------------------|----------------------------|-------------------|---------------|-----------|
| C 10. | CX-E-OCUE | (ug/11 O1 ug/10g) | <u>00/100</u> | <u> ×</u> |
| | 2,4-Dimethylphenol | | 330 | ប |
| | Dimethyl phthalate | | 330 | שׁ |
| | 4,6-Dinitro-2-methylphenol | | 1600 | ן ט |
| | 2,4-Dinitrophenol | | 1600 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 330 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 330 | U |
| 117-84-0 | Di-n-octyl phthalate | | 330 | U |
| 206-44-0 | Fluoranthene | | 30 | J |
| 86 - 73-7 | | | 330 | U |
| | Hexachlorobenzene | | 330 | U |
| | Hexachlorobutadiene | | 330 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 330 | U |
| | Hexachloroethane | | 330 | U |
| | Indeno(1,2,3-cd)pyrene | | 17 | J |
| | Isophorone_ | | 330 | U |
| | 2-Methylnaphthalene | · | 330 | U |
| | 2-Methylphenol | | 330 | U |
| | 4-Methylphenol | | 330 | U |
| | Naphthalene | | 330 | ַ |
| t | 2-Nitroaniline | | 1600 | U |
| · · | 3-Nitroaniline | | 1600 | U |
| | 4-Nitroaniline_ | | 1600 | U |
| | Nitrobenzene_ | | 330 | U |
| 2 | 2-Nitrophenol | | 330 | U . |
| | 4-Nitrophenol | | 1600 | U |
| | N-nitrosodiphenylamine | · | 330 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | | 330 | U. |
| | Pentachlorophenol_ | | 1600 | ט |
| | Phenanthrene | | 17 | J |
| 108-95-2 | | | 330 | U |
| 129-00-0 | | | 29 | J |
| 95-95-4 | 2,4,5-Trichlorophenol | | 800 | U |

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METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

| | BS-38 (6.0-7.1) |
|--|--|
| Lab Name: STL Buffalo Contract: | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: A6D77103 |
| Sample wt/vol: 30.92 (g/mL) G | Lab File ID: <u>W13158.RR</u> |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: <u>11/10/2006</u> <u>11/16/2006</u> |
| % Moisture:3 decanted: (Y/N) N | Date Extracted: <u>11/24/2006</u> |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: <u>11/28/2006</u> |
| Injection Volume: 1.00 (uL) | Dilution Factor:1.00 |
| GPC Cleanup: (Y/N) N pH: | |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> Q |
| 88-06-22,4,6-Trichlorophenol | 330 U |

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METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENTATIVELY IDENTIFIED COMPOUNDS

| | | BS-38 (6.0-7.1) |
|---|--------------------------------------|--|
| Lab Name: STL Buffalo Contract: | - | `````````````````````````````````````` |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6D77103 |
| Sample wt/vol: 30.92 (g/mL) G | Lab File ID: | W13158.RR |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 11/10/2006 11/16/2006 |
| % Moisture: <u>2.6</u> decanted: (Y/N) <u>N</u> | Date Extracted: | 11/24/2006 |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: | 11/28/2006 |
| Injection Volume: 1.00 (uL) | Dilution Factor | :1.00 |
| GPC Cleanup: (Y/N) N pH: | | |
| Number TICs found:0 | CONCENIRATION UNI (ug/L or ug/Kg) | _ |

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---------|---------------|----|------------|---|
| | | | | |

Client No.

BS-39 (6.0-6.7)

| Lab Name: STL Buffalo Contract: | | |
|--|------------------|-----------------------|
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6D77104 |
| Sample wt/vol: 30.77 (g/mL) G | Lab File ID: | W13159.RR |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: | 11/10/2006 11/16/2006 |
| % Moisture:5 decanted: (Y/N) \underline{N} | Date Extracted: | 11/24/2006 |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: | 11/28/2006 |
| Injection Volume: 1.00 (uL) | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: | | |

| | | CONCENTRATION UNI | | |
|-----------|------------------------------|-------------------|--------------|----------|
| CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/KG</u> | Q |
| 83-32-9 | Acenaphthene | | 340 | U |
| | Acenaphthylene | | 340 | U |
| | Acetophenone | | 340 | ַ |
| 120-12-7 | | | 340 | ប |
| 1912-24-9 | | | 340 | U |
| | Benzaldehyde | | 340 | ט |
| | Benzo (a) anthracene | | 340 | U |
| 205-99-2 | Benzo (b) fluoranthene | | 340 | . บ |
| 207-08-9 | Benzo(k)fluoranthene | | 340 | U |
| 191-24-2 | Benzo(ghi)perylene | | 340 | ַ ע |
| | Benzo (a) pyrene | | 340 | U |
| 92-52-4 | | | 340 | υ · |
| 111-91-1 | Bis(2-chloroethoxy) methane | | 340 | ט |
| 111-44-4 | Bis(2-chloroethyl) ether | | 340 | ָּט |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 340 | שׁ |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | | 340 | ע |
| 101-55-3 | 4-Bromophenyl phenyl ether — | | 340 | U |
| | Butyl benzyl phthalate | | 340 | ַ |
| | Caprolactam_ | | 340 | U |
| | 4-Chloroaniline | | 340 | ប |
| 59-50-7 | 4-Chloro-3-methylphenol | | 340 | ע ו |
| | 2-Chloronaphthalene | | 340 | U |
| | 2-Chlorophenol | | 340 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | | 340 | U |
| 86-74-8 | | | 340 | ע |
| 218-01-9 | Chrysene | | 340 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | | 340 | U |
| | Dibenzofuran_ | | 340 | U |
| 84-74-2 | Di-n-butyl phthalate | | 340 | U |
| | 3,3'-Dichlorobenzidine | | 1600 | U |
| | 2,4-Dichlorophenol | | 340 | U |
| 84-66-2 | Diethyl phthalate | | 340 | ប |

Client No.

| BS- | -39 (| 6.0-6.7) |
|-----|-------|----------|
|-----|-------|----------|

| Lab Name: STL Buffalo | Contract: | | |
|----------------------------------|----------------|------------------|-----------------------|
| Lab Code: <u>RECNY</u> Case No.: | SAS No.: | SDG No.: | |
| Matrix: (soil/water) SOIL | | Lab Sample ID: | A6D77104 |
| Sample wt/vol: <u>30.77</u> (g/r | mL) <u>G</u> | Lab File ID: | W13159.RR |
| Level: (low/med) <u>LOW</u> | | Date Samp/Recv: | 11/10/2006 11/16/2006 |
| % Moisture:5 decanted: | (Y/N) <u>N</u> | Date Extracted: | 11/24/2006 |
| Concentrated Extract Volume: 100 | 00 (uL) | Date Analyzed: | 11/28/2006 |
| Injection Volume: 1.00 (uL) | | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: | | | |

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q

| | ,, | | |
|-----------------------|----------------|------|----------|
| 105-67-92,4-Dimethylp | phenol | 340 | บ |
| 131-11-3Dimethyl phth | | 340 | U |
| 534-52-14,6-Dinitro-2 | 2-methylphenol | 1600 | U |
| 51-28-52,4-Dinitroph | nenol | 1600 | U |
| 121-14-22,4-Dinitroto | oluene | 340 | U |
| 606-20-22,6-Dinitroto | | 340 | U |
| 117-84-0Di-n-octyl ph | nthalate | 340 | U |
| 206-44-0Fluoranthene | | 340 | ប |
| 86-73-7Fluorene | | 340 | U |
| 118-74-1Hexachlorober | | 340 | U |
| 87-68-3Hexachlorobut | adiene | 340 | U |
| 77-47-4Hexachlorocyc | | 340 | U |
| 67-72-1Hexachloroeth | | 340 | U |
| 193-39-5Indeno(1,2,3- | -cd) pyrene | 340 | U |
| 78-59-1Isophorone | | 340 | U |
| 91-57-62-Methylnapht | | 340 | U |
| 95-48-72-Methylpheno | ol | 340 | U |
| 106-44-54-Methylpheno | ol | 340 | U |
| 91-20-3Naphthalene | | 340 | U |
| 88-74-42-Nitroanilir | | 1600 | U |
| 99-09-23-Nitroanilir | | 1600 | U |
| 100-01-64-Nitroanilin | ne | 1600 | U |
| 98-95-3Nitrobenzene | | 340 | U |
| 88-75-52-Nitropheno | | 340 | U |
| 100-02-74-Nitropheno | | 1600 | U |
| 86-30-6N-nitrosodiph | nenylamine | 340 | U |
| 621-64-7N-Nitroso-Di- | -n-propylamine | 340 | U |
| 87-86-5Pentachloroph | nenol | 1600 | U |
| 85-01-8Phenanthrene | | 340 | U |
| 108-95-2Phenol | | 340 | U |
| 129-00-0Pyrene | | 340 | U |
| 95-95-42,4,5-Trichle | prophenol | 820 | U |
| | | l | <u> </u> |

| Lab Name: | STL Buffalo | o Cor | ntract: | | BS-39 | (6.0-6.7) |
|-------------|-------------------|------------------------------|----------|-------------------------------------|----------------------|----------------|
| Lab Code: ; | <u>RECNY</u> Ca | ase No.: | SAS No.: | SDG No.: | | |
| Matrix: (s | oil/water) | SOIL | | Lab Sample I | D: <u>A6D7710</u> 4 | 1 |
| Sample wt/ | vol: | <u>30.77</u> (g/mL) <u>G</u> | | Lab File ID: | W13159.1 | RR |
| Level: (| (low/med) | LOW | | Date Samp/Re | cv: <u>11/10/2</u> 0 | 006 11/16/2006 |
| % Moisture | <u> 5</u> | decanted: (Y/N) | N | Date Extract | ed: <u>11/24/2</u> (| 006 |
| Concentrate | ed Extract | Volume: 1000 (uL) | | Date Analyze | d: <u>11/28/20</u> | 006 |
| Injection ' | Volume: | 1.00 (uL) | | Dilution Fac | tor:1.00 | <u>)</u> |
| GPC Cleanu | p: (Y/N) <u>P</u> | <u>N</u> pH: | | | | |
| <u>a</u> | As No. | COMPOUND | | CONCENIRATION UN (ug/L or ug/Kg) | | Q |
| 88 | 8-06-2 | 2,4,6-Trichloro | phenol | | 340 | ט |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENIATIVELY IDENTIFIED COMPOUNDS

| Lab Name: STL Bu | <u>iffalo</u> | Contract: | | BS-39 (6.0-6.7) |
|------------------|-----------------------|-------------------|--------------------------------------|-----------------------|
| Lab Code: RECNY | Case No.: | SAS No.: | SDG No.: | |
| Matrix: (soil/wa | iter) <u>SOIL</u> | | Lab Sample ID: | A6D77104 |
| Sample wt/vol: | <u>30.77</u> (g/ | mL) <u>G</u> | Lab File ID: | W13159.RR |
| Level: (low/ma | ed) <u>LOW</u> | | Date Samp/Recv: | 11/10/2006 11/16/2006 |
| % Moisture: _5. | <u>3</u> decanted: | (Y/N) <u>N</u> | Date Extracted: | 11/24/2006 |
| Concentrated Ext | ract Volume: <u>1</u> | . <u>000</u> (uL) | Date Analyzed: | 11/28/2006 |
| Injection Volume | e: <u>1.00</u> (uL) | | Dilution Factor | :1.00 |
| GPC Cleanup: | (Y/N) <u>N</u> | рн: | | |
| Number TICs four | nd: <u>0</u> | | CONCENTRATION UNI (ug/L or ug/Kg) | |
| | TAS NO | Compound Name | RT Est | Conc. O |

Client No.

| | | | MEZ TOCOO |
|--------------------------|-------------------------|------------------|-----------------------|
| Lab Name: STL Buffal | O Contract: | <u> </u> | MW-BS39 |
| Lab Code: <u>RECNY</u> C | ase No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) | WATER | Lab Sample ID: | A6D77105 |
| Sample wt/vol: | 1000.0 (g/mL) <u>ML</u> | Lab File ID: | V17991.RR |
| Level: (low/med) | LOW | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: | decanted: (Y/N) N | Date Extracted: | 11/18/2006 |
| Concentrated Extract | Volume: 1000 (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volume: | 1.00 (uL) | Dilution Factor: | 1.00 |

GPC Cleanup: (Y/N) N pH: 5.0

| | | CONCENTRATION | UNITS: | | * |
|--------------|----------------------------|---------------|-------------|-----|------|
| CAS NO. COM | POUND | (ug/L or ug/K | ġ) <u>Ľ</u> | G/L | Q |
| 83-32-9Ace | naphthene | | | 10 | U |
| 208-96-8Ace | | | | 10 | U |
| 98-86-2Ace | tophenone | | | 10 | ט |
| 120-12-7Ant | | | | 10 | ן מן |
| 1912-24-9Atr | | | | 10 | ט |
| 100-52-7Ben | | | | 50 | ט |
| 56-55-3Ben | zo (a) anthracene | | | 10 | ט |
| 205-99-2Ben | zo(b)fluoranthene | | | 10 | ט |
| 207-08-9Ben | zo(k)fluoranthene | | | 10 | ן ח |
| 191-24-2Ben | zo(ghi)perylene | | | 10 | ט |
| 50-32-8Ben | zo(a) pyrene | | | 10 | U |
| 92-52-4Bip | | | | 10 | U |
| 111-91-1Bis | (2-chloroethoxy) methane | | | 10 | ן ען |
| 111-44-4Bis | (2-chloroethyl) ether | | * | 10 | υ |
| 108-60-12,2 | '-Oxybis (1-Chloropropane) | | | 10 | U |
| 117-81-7Bis | (2-ethylhexyl) phthalate | | | 10 | U |
| 101-55-34-B | romophenyl phenyl ether | | | 10 | ט |
| 85-68-7But | yl benzyl phthalate | | | 10 | ט |
| 106-47-84-C | | | | 10 | υ |
| 59-50-74-C | hloro-3-methylphenol | | | 10 | ט |
| 91-58-72-0 | hloronaphthalene | | | 10 | υ |
| 95-57-82-C | | | | 10 | υ |
| 7005-72-34-C | hlorophenyl phenyl ether | | | 10 | ן ח |
| 105-60-2Cap | rolactam | | | 10 | υ |
| 86-74-8Card | bazole | | | 10 | υ |
| 218-01-9Chr | ysene | | | 10 | Ū |
| 53-70-3Dib | enzo (a,h) anthracene | | | 10 | ΰ |
| 132-64-9Dib | enzofuran | | | 10 | ΰ |
| 84-74-2Di- | n-butyl phthalate | | | 10 | บ |
| | '-Dichlorobenzidine | | | 20 | Ū |
| 120-83-22,4 | -Dichlorophenol | - | | 10 | Ū . |
| 84-66-2Die | thyl phthalate | | | 10 | υ |

LABELLA ASSOCIATES LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Client No.

| | | | | MW-BS39 |
|------------------------------|-------------------------------|----------|------------------|-----------------------|
| Láb Name: <u>STL Buffalo</u> | 2 Ca | ontract: | _ | |
| Lab Code: <u>RECNY</u> Ca | ase No.: | SAS No.: | SDG No.: | |
| Matrix: (soil/water) | WATER | | Lab Sample ID: | A6D77105 |
| Sample wt/vol: | <u>1000.0</u> (g/mL) <u>M</u> | <u>-</u> | Lab File ID: | V17991.RR |
| Level: (low/med) | LOW | | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: | decanted: (Y/N) | <u>N</u> | Date Extracted: | 11/18/2006 |
| Concentrated Extract | Volume: 1000 (uL) |) | Date Analyzed: | 11/24/2006 |
| Injection Volume: | 1.00 (uL) | | Dilution Factor: | 1.00 |
| | | • | | |

GPC Cleanup: (Y/N) \underline{N} pH: $\underline{5.0}$

| | | CONCENTRATION U | NITS: | |
|----------|-----------------------------|-----------------|-----------------|-----|
| CAS NO. | COMPOUND | (ug/L or ug/Kg | () <u>UG/L</u> | Q |
| 105-67-9 | -2,4-Dimethylphenol | | 10 | U |
| | Dimethyl phthalate | | 10 | U |
| 534-52-1 | -4,6-Dinitro-2-methylphenol | | 50 . | ע |
| | 2,4-Dinitrophenol | | 50 | U |
| | -2,4-Dinitrotoluene | | 10 | U |
| | 2,6-Dinitrotoluene | | 10 | U |
| | Di-n-octyl phthalate | | 10 | U |
| | Fluoranthene | | 10 | U |
| 86-73-7 | | | 10 | ע |
| 118-74-1 | Hexachlorobenzene | | 10 | ע |
| | -Hexachlorobutadiene | | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 45 | U |
| | Hexachloroethane | | 10 | U |
| | Indeno (1,2,3-cd) pyrene | | 10 | U |
| 78-59-1 | | | 10 | ט |
| | 2-Methylnaphthalene | | 10 | U |
| | 2-Methylphenol | | 10 | U |
| | 4-Methylphenol | | 10 | U |
| | Naphthalene | | 10 | U |
| | 2-Nitroaniline | | 50 | U |
| 99-09-2 | 3-Nitroaniline | | 50 | U |
| | 4-Nitroaniline | | 50 | U |
| 98-95-3 | Nitrobenzene | | 10 | U |
| 1 | 2-Nitrophenol | | 10 | U |
| | 4-Nitrophenol | | 50 ⁻ | U |
| | N-nitrosodiphenylamine | | 10 | U |
| | N-Nitroso-Di-n-propylamine | | 10 | U |
| | Pentachlorophenol | | 50 | U · |
| | Phenanthrene | | 10 | U |
| 108-95-2 | | | 10 | ប |
| 129-00-0 | | | 10 | U |
| | 2,4,5-Trichlorophenol | | 10 | U |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

ANALYSIS DATA SHEET

Client No.

| - 1 | | | MW-BS39 |
|------------------------------|------------------------|--------------------------------------|-----------------------|
| Lab Name: <u>STL Buffalo</u> | Contract: | | |
| Lab Code: <u>RECNY</u> Case | e No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) W | ATER | Lab Sample ID: | A6D77105 |
| Sample wt/vol: 10 | 000.0 (g/mL) <u>ML</u> | Lab File ID: | <u>V17991.RR</u> |
| Level: (low/med) <u>L(</u> | DW . | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| % Moisture: de | ecanted: (Y/N) N | Date Extracted: | 11/18/2006 |
| Concentrated Extract Vo | olume: 1000 (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volume: 1. | .00 (uL) | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N | pH: <u>5.0</u> | • | |
| CAS NO. | | NCENIRATION UNITS: ug/L or ug/Kg) | |
| 88-06-2 | -2.4.6-Trichlorophenol | | 10 |

LABELLA ASSOCIATES

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS TENIATIVELY IDENTIFIED COMPOUNDS

| Lab Name: STL Buffalo Contract: | MW-BS39 | |
|---|---|-----------|
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) WATER | Lab Sample ID: A6D77105 | |
| Sample wt/vol: <u>1000.0</u> (g/mL) <u>ML</u> | Lab File ID: <u>V17991.RR</u> | |
| Level: (low/med) <u>LOW</u> | Date Samp/Recv: <u>11/15/2006</u> <u>11/16/200</u> | <u>)6</u> |
| % Moisture: decanted: (Y/N) N | Date Extracted: <u>11/18/2006</u> | |
| Concentrated Extract Volume: 1000 (uL) | Date Analyzed: <u>11/24/2006</u> | |
| Injection Volume:1.00 (uL) | Dilution Factor: 1.00 | |
| GPC Cleanup: (Y/N) N pH: 5.0 | | |
| Number TICs found: _3 | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> | |
| | | |

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|----------------|-------------------------------|------------------------|---------------|---------|
| 1. 2. 3. | NUKNOMU NUKNOMU NUKNOMU | 6.43 15.07 15.82 | 9 10 16 | BJ J |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8081 - TCL PESTICIDES ANALYSIS DATA SHEET

| lab Namo, CTT Duffalo | | MW-BS39 |
|---|---|---|
| Lab Name: STL Buffalo Contract: | | |
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: | |
| Matrix: (soil/water) <u>WATER</u> | Lab Sample ID: | A6D77105 |
| Sample wt/vol: 1000.00 (g/mL) ML | Lab File ID: | 5A10141.TX0 |
| % Moisture: decanted: (Y/N) N | Date Samp/Recv: | 11/15/2006 11/16/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): <u>SEPF</u> | Date Extracted: | 11/22/2006 |
| Concentrated Extract Volume: <u>10000</u> (uL) | Date Analyzed: | 11/24/2006 |
| Injection Volume:1.00(uL) | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: 7.00 | Sulfur Cleanup: | (Y/N) <u>N</u> |
| | RATION UNITS: or ug/Kg) <u>UG/L</u> | Q |
| 309-00-2Aldrin 319-84-6alpha-BHC 319-85-7beta-BHC 58-89-9gamma-BHC (Lindane) 319-86-8delta-BHC 72-54-84,4'-DDD 72-55-94,4'-DDE 50-29-34,4'-DDT 60-57-1Dieldrin 959-98-8Endosulfan I 33213-65-9Endosulfan II 1031-07-8Endosulfan Sulfate 72-20-8Endrin 7421-93-4Endrin aldehyde 5103-71-9alpha-Chlordane 5103-74-2gamma-Chlordane 76-44-8Heptachlor epoxide 72-43-5Heptachlor 8001-35-2Toxaphene 53494-70-5Endrin ketone | 0.050 0.050 0.050 0.049 0.050 0.050 0.050 0.050 0.050 | ם ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט |

IABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

| Lab Name: STL Buffalo Contrac | t: |
|--|---|
| Lab Code: RECNY Case No.: SAS No.: | SDG No.: |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: A6D77102 |
| Sample wt/vol: 30.26 (g/mL) G | Lab File ID: <u>19A82118.TX0</u> |
| % Moisture: 9 decanted: (Y/N) N | Date Samp/Recv: <u>11/10/2006</u> <u>11/16/2006</u> |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC | Date Extracted: <u>11/24/2006</u> |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: <u>11/25/2006</u> |
| Injection Volume: 1.00(uL) | Dilution Factor:1.00 |
| GPC Cleanup: (Y/N) N pH: _ | Sulfur Cleanup: (Y/N) Y |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 | 18 U 18 U 18 U 18 U 18 U 18 U 18 U 18 U |
| 1111146-87-5 | 10 17 |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

| Lab Name: STL Buffalo Contract | : : | BS-38 (6.0-7.1) |
|--|--|-----------------------|
| Lab Code: RECNY Case No.: SAS No.: | | |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: | A6D77103 |
| Sample wt/vol: 30.95 (g/mL) G | Lab File ID: | 19A82119.TX0 |
| % Moisture: 3 decanted: (Y/N) N | Date Samp/Recv: | 11/10/2006 11/16/2006 |
| Extraction: (SepF/Cont/Sonc/Soxh): SONC | Date Extracted: | 11/24/2006 |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: | 11/25/2006 |
| Injection Volume: 1.00 (uL) | Dilution Factor: | 1.00 |
| GPC Cleanup: (Y/N) N pH: _ | Sulfur Cleanup: | (Y/N) <u>Y</u> |
| CAS NO. COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> | Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 | 16 16 16 16 16 16 | U U U U U |
| 11096-82-5Aroclor 1260 | 16 | U |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

| | BS-39 (6.0-6.7) |
|--|---|
| Lab Name: <u>STL Buffalo</u> Contrac | t: |
| Lab Code: <u>RECNY</u> Case No.: SAS No.: | SDG No.: |
| Matrix: (soil/water) <u>SOIL</u> | Lab Sample ID: A6D77104 |
| Sample wt/vol: 30.34 (g/mL) G | Lab File ID: <u>19A82120.TX0</u> |
| % Moisture: 5 decanted: (Y/N) N | Date Samp/Recv: <u>11/10/2006</u> <u>11/16/2006</u> |
| Extraction: (SepF/Cont/Sonc/Soxh): <u>SONC</u> | Date Extracted: <u>11/24/2006</u> |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: <u>11/25/2006</u> |
| Injection Volume:1.00(uL) | Dilution Factor: 1.00 |
| GPC Cleanup: (Y/N) N pH:_ | Sulfur Cleanup: $(Y/N) Y$ |
| CAS NO. COMPOUND | CONCENIRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 | 17 U U U T T T T T T T T T T T T T T T T |
| 11096-82-5Aroclor 1260 | 17 U |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8082 - POLYCHLORINATED BIPHENYLS ANALYSIS DATA SHEET

| Lab Name CIII Daffala | MW-BS39 |
|--|--|
| Lab Name: <u>STL Buffalo</u> Contrac | t: |
| Lab Code: RECNY Case No.: SAS No.; | SDG No.: |
| Matrix: (soil/water) <u>WATER</u> | Lab Sample ID: A6D77105 |
| Sample wt/vol:1000.00 (g/mL) ML | Lab File ID: 19A82011.TX0 |
| % Moisture: decanted: (Y/N) N | Date Samp/Recv: <u>11/15/2006</u> <u>11/16/2006</u> |
| Extraction: (SepF/Cont/Sonc/Soxh): SEPF | Date Extracted: <u>11/20/2006</u> |
| Concentrated Extract Volume: 10000 (uL) | Date Analyzed: <u>11/21/2006</u> |
| Injection Volume:1.00(uL) | Dilution Factor:1.00 |
| GPC Cleanup: (Y/N) N pH: 5.00 | Sulfur Cleanup: $(Y/N) Y$ |
| CAS NO. COMPOUND | CONCENIRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> Q |
| 12674-11-2Aroclor 1016 11104-28-2Aroclor 1221 11141-16-5Aroclor 1232 53469-21-9Aroclor 1242 12672-29-6Aroclor 1248 11097-69-1Aroclor 1254 | 0.50 U 0.50 U 0.50 U 0.50 U 0.50 U 0.50 U |
| 11096-82-5Aroclor 1260 | 0.50 U |

INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D771

Method Type:

Sample ID: A6D77102

Client ID: BS-37 (6.0-7.7)

Matrix: SOIL

Date Received:

11/16/2006

Date Collected:

11/10/2006

Level:

LOW

% Solids: 91

Sample Wt/Vol:

0.6

Final Vol:

50.0

Prep Batch ID:

A6B30542

Prep Date:

11/21/2006

| | | • | | Analytical | | | | | | | | | |
|-----------|---|---------------|---------|------------|------|-------|-------|-----|------------|----------|------------|----------|----|
| Analyte | | Concentration | u Units | C | Qual | RL | RL | Dil | Date | Time | Instrument | Run | M |
| Aluminum | | 54700 | mg/Kg | | E | 97.7 | 97.7 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Antimony | < | 147 | mg/Kg | U | N | 147 | 147 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Arsenic | | 36.3 | mg/Kg | | N | 19.5 | 19.5 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Barium | | 368 | mg/Kg | | E | 4.9 | 4.9 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Beryllium | | 42.6 | mg/Kg | | NE* | 2.0 | 2.0 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Cadmium | - | 32.0 | mg/Kg | | NE | 2.0 | 2.0 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Calcium | | 251000 | mg/Kg | | E | 488 | 488 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Chromium | | 37.8 | mg/Kg | | NE | 4.9 | 4.9 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Cobalt | | 31.8 | mg/Kg | | NE | 4.9 | 4.9 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Copper | | 33.6 | mg/Kg | | N | 9.8 | 9.8 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Iron | | 6080 | mg/Kg | | NE* | 97.7 | 97.7 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Lead | | 35.4 | mg/Kg | | N | 9.8 | 9.8 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Magnesium | | 13100 | mg/Kg | | E | 195 | 195 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Manganese | | 4460 | mg/Kg | | E* | 2.0 | 2.0 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Nickel | | 32.5 | mg/Kg | | N | 4.9 | 4.9 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Potassium | | 4260 | mg/Kg | | N* | 293 | 293 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Selenium | | 45.3 | mg/Kg | | N* | 39.1 | 39.1 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Silver | | 7.8 | mg/Kg | | N | 4.9 | 4.9 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Mercury | < | 0.020 | mg/Kg | U | | 0.020 | 0.020 | 1 | 11/21/2006 | 11:45:36 | LEEMAN PS2 | L21121Sx | CV |
| Sodium | | 3080 | mg/Kg | | N* | 1370 | 1370 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Thallium | < | 58.6 | mg/Kg | U | N | 58.6 | 58.6 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Vanadium | | 52.0 | mg/Kg | | NE* | 4.9 | 4.9 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |
| Zinc | | 38.3 | mg/Kg | | · N | 9.8 | 9.8 | 10 | 11/22/2006 | 22:29 | SUPERTRACE | 111220x | P |

-1-INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D771

Method Type:

Sample ID: A6D77103

Client ID: BS-38 (6.0-7.1)

Matrix: SOIL

Date Received:

11/16/2006

Date Collected:

11/10/2006 Level: LOW

% Solids: 97

Sample Wt/Vol:

0.6

Final Vol:

50.0

Prep Batch ID:

A6B30542

Prep Date:

11/21/2006

| | | • | | | | | | | Anal | ytical | | | |
|-----------|---|-----------------|-------|---|------|-------|-------|-----|------------|----------|------------|----------|----|
| Analyte | | Concentration U | Inits | С | Qual | RL | RL | Dil | Date | Time | Instrument | Run | M |
| Aluminum | | 951 m | g/Kg | | E | 90.2 | 90.2 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Antimony | < | 135 m | g/Kg | U | N | 135 | 135 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Arsenic | < | 18.0 mg | g/Kg | U | N | 18.0 | 18.0 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Barium | | 11.6 m | g/Kg | | E | 4.5 | 4.5 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Beryllium | < | 1.8 m | g/Kg | U | NE* | 1.8 | 1.8 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Cadmium | < | 1.8 m | g/Kg | U | NE | 1.8 | 1.8 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Calcium | | 342000 m; | g/Kg | | E | 451 | 451 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Chromium | < | 4.5 mg | g/Kg | U | NE | 4.5 | 4.5 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Cobalt | < | 4.5 mg | g/Kg | U | NE | 4.5 | 4.5 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Copper | < | 9.0 mg | g/Kg | U | N | 9.0 | 9.0 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Iron | | 2980 mg | g/Kg | | NE* | 90.2 | 90.2 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Lead | | 11.4 mg | g/Kg | | N | 9.0 | 9.0 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Magnesium | | 6790 mg | g/Kg | | E | 180 | 180 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Manganese | | 150 mg | g/Kg | | E* | 1.8 | 1.8 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Nickel | < | 4.5 mg | g/Kg | U | N | 4.5 | 4.5 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Potassium | < | 271 mg | g/Kg | U | N* | 271 | 271 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Selenium | < | 36.1 mg | g/Kg | U | N* | 36.1 | 36.1 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Silver | < | 4.5 mg | g/Kg | U | N | 4.5 | 4.5 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Mercury | | 0.106 mg | g/Kg | | | 0.018 | 0.018 | 1 | 11/21/2006 | 11:47:11 | LEEMAN PS2 | L21121Sx | CV |
| Sodium | < | 1260 mg | g/Kg | U | N* | 1260 | 1260 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Thallium | < | 54.1 mg | g/Kg | U | N | 54.1 | 54.1 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Vanadium | < | 4.5 mg | g/Kg | U | NE* | 4.5 | 4.5 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |
| Zinc | | 25.3 mg | g/Kg | | N | 9.0 | 9.0 | 10 | 11/22/2006 | 22:54 | SUPERTRACE | 111220x | P |

-1-INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D771

Method Type:

Sample ID: A6D77104

Client ID: BS-39 (6.0-6.7)

Matrix: SOIL

Date Received:

11/16/2006

Date Collected:

11/10/2006 Level:

LOW

% Solids: 95

Sample Wt/Vol:

0.5

Final Vol:

50.0

Prep Batch ID:

A6B30542

Prep Date:

11/21/2006

| - | | | | | | | | Analy | tical | | | |
|---------------|---|---------------------|---|------|-------|-------|-----|------------|----------|------------|----------|-----------|
| Analyte | | Concentration Units | C | Qual | RL | RL | Dil | Date | Time | Instrument | Run | M |
| Aluminum | | 44400 mg/Kg | | E | 101 | 101 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Antimony | < | 151 mg/Kg | U | N | 151 | 151 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Arsenic | < | 20.1 mg/Kg | U | N | 20.1 | 20.1 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Barium | | 269 mg/Kg | | E | 5.0 | 5.0 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Beryllium | | 4.2 mg/Kg | | NE* | 2.0 | 2.0 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Cadmium | < | 2.0 mg/Kg | U | NE | 2.0 | 2.0 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Calcium | | 202000 mg/Kg | | E | 503 | 503 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Chromium | < | 5.0 mg/Kg | U | NE | 5.0 | 5.0 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Cobalt | < | 5.0 mg/Kg | U | NE | 5.0 | 5.0 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Copper | < | 10.1 mg/Kg | U | N | 10.1 | 10.1 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Iron | | 4780 mg/Kg | | NE* | 101 | 101 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Lead | < | 10.1 mg/Kg | U | N | 10.1 | 10.1 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Magnesium | | 28600 mg/Kg | | E | 201 | 201 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Manganese | ٠ | 422 mg/Kg | | E* | 2.0 | 2.0 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Nickel | < | 5.0 mg/Kg | U | N | 5.0 | 5.0 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | .P |
| Potassium | | 7060 mg/Kg | | N* | 302 | 302 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Selenium | < | 40.2 mg/Kg | Ú | N* | 40.2 | 40.2 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Silver | < | 5.0 mg/Kg | U | N | 5.0 | 5.0 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Mercury | < | 0.016 mg/Kg | U | | 0.016 | 0.016 | 1 | 11/21/2006 | 11:48:24 | LEEMAN PS2 | L21121Sx | CV |
| Sodium | < | 1410 mg/Kg | U | N* | 1410 | 1410 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Thallium | < | 60.4 mg/Kg | U | N | 60.4 | 60.4 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Vanadium | | 9.8 mg/Kg | | NE* | 5.0 | 5.0 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P |
| Zinc | < | 10.1 mg/Kg | U | N | 10.1 | 10.1 | 10 | 11/22/2006 | 22:59 | SUPERTRACE | 111220x | P. |

-1-INORGANIC ANALYSIS DATA PACKAGE

Client: LaBella Associates

SDG No.:

A06-D771

Method Type:

Sample ID: A6D77105

Client ID: MW-BS39

Matrix: WATER

Date Received:

11/16/2006

Date Collected:

11/15/2006 Level: LOW

% Solids:

Sample Wt/Vol:

50.0

Final Vol:

50.0

Prep Batch ID:

A6B30447

Prep Date:

11/20/2006

| | | | | | | | | | Analy | ytical | | | |
|-----------|----|---------------|-------|---|------|-------|-------|-----|------------|----------|------------|----------|----|
| Analyte | | Concentration | Units | С | Qual | RL | RL | Dil | Date | Time | Instrument | Run | M |
| Aluminum | | 487 | ug/L | | | 200 | 200 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Antimony | <, | 20.0 | ug/L | U | | 20.0 | 20.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Arsenic | | 3.14 | ug/L | | | 1.00 | 1.00 | 1 | 11/20/2006 | 23:29:22 | ELAN-ICPMS | E112006A | M |
| Barium | | 52.1 | ug/L | | | 2.0 | 2.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Beryllium | < | 2.0 | ug/L | U | | 2.0 | 2.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Cadmium | < | 1.0 | ug/L | U | | 1.0 | 1.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Calcium | | 89400 | ug/L | | | 500 | 500 | . 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Chromium | < | 4.0 | ug/L | U | | 4.0 | 4.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Cobalt | < | 4.0 | ug/L | U | | 4.0 | 4.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Copper | < | 10.0 | ug/L | U | | 10.0 | 10.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Iron | | 1120 | ug/L | | | 50.0 | 50.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Magnesium | | 7660 | ug/L | | | 200 | 200 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Manganese | | 370 | ug/L | | | 3.0 | 3.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Nickel | < | 10.0 | ug/L | U | | 10.0 | 10.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Potassium | | 38500 | ug/L | | | 500 | 500 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Selenium | < | 15.0 | ug/L | U | | 15.0 | 15.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Silver | < | 3.0 | ug/L | U | | 3.0 | 3.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Mercury | < | 0.200 | ug/L | U | | 0.200 | 0.200 | 1 | 11/20/2006 | 14:23:10 | LEEMAN PS2 | L21120W1 | CV |
| Sodium | | 403000 | ug/L | | | 5000 | 5000 | 5 | 11/22/2006 | 22:19 | SUPERTRACE | 111220x | P |
| Thallium | < | 20.0 | ug/L | U | | 20.0 | 20.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Vanadium | < | 5.0 | ug/L | U | | 5.0 | 5.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Zinc | | 27.3 | ug/L | | | 10.0 | 10.0 | 1 | 11/21/2006 | 19:05 | SUPERTRACE | 111210x | P |
| Lead | | 3.30 | ug/L | | | 1.00 | 1.00 | 1 | 11/20/2006 | 23:29:22 | ELAN-ICPMS | E112006A | M |

LABELLA ASSOCIATES LABELLA ASSOCIATES METHOD 8260 - TCL VOLATILE ORGANICS WATER SURROGATE RECOVERY

| Lab Name: <u>STL Buffalo</u> | | Cont | Contract: | | | | | | |
|------------------------------|-----------|------|-----------|--|----------|--|--|--|--|
| Lab Code: <u>RECNY</u> | Case No.: | SAS | S No.: | | SDG No.: | | | | |

| | Client Sample ID | Lab Sample ID | | DCE %REC # | TOL %REC # | ====== | ====== | ***** | | TOT OUT |
|---------|---|--|----------------------------------|-------------------------------------|--|--------|--------|-------|------|------------|
| 2 3 4 5 | MSB27 MSB91 MW-BS39 Trip Blank VBLK27 VBLK91 | A6B3058801 A6B3073601 A6D77106 A6D77101 A6B3058802 A6B3073602 | 97 95 90 97 98 89 | 102 96 90 106 104 94 | 101 109 104 102 104 103 | | · | | | 0 0 0 0 0 |

QC LIMITS

| BFB | = | p-Bromofluorobenzene | (73-120) |
|-----|---|-----------------------|-----------|
| DCE | = | 1,2-Dichloroethane-D4 | (72-143) |
| TOL | = | Toluene-D8 | (76-122) |

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

16:20

Date/Time:

Company:

Date/Time:

Company:

Received by:

Date/Time:

Company:

Relinquished by:

Date/Time:

Company:

Severn Trent Laboratories, Inc. 4°C Preservative + HNO3 for Metals Sample Specific Notes: Job No. 206377 Phase 4 COCs 4°C Preservative + HCI Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client

Nontr Date/Time: SEVERN HCl Preservative 4°C Preservative 4°C Preservative 4°C Preservative COC No: SDG No. Archive For 16-Nov-06 Carrier: Lab Courier Company: X pisposal By Lab Chain of Custody Record Site Contact: Craig A. Stiles Lab Contact: Jason Kikalski × × × [AL Metals × esticides × × × × × × × × (CF SAOCe (8510C) × × × × × 7 LCL VOCs (8260B) Date/Time: 11/16/06 @ 1430 Unknown # of Cont. ASP Category B Deliverables Water Water Matrix Water Soil Soil Soil × Project Manager: Mr. Dennis Porter Analysis Turnaround Time Tel/Fax: (585) 454-6110 / 454-3066 Calendar (C) or Work Days (W) Sample Type Poison B TAT if different from Below Soil Soil Ğ₩ Ø₩ Soil Ğ₩ Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Standard 2 weeks 2 days I day Company: LaBella Associates, P.C. Sample Time 0615 0745 1015 1530 0060 1620 Skin Irritant \times 10-Nov-06 10-Nov-06 15-Nov-06 10-Nov-06 10-Nov-06 15-Nov-06 Sample Date Special Instructions/QC Requirements & Comments: Phone ΕĄ Site: Port of Rochester, Rochester, NY phone 716-691-2600 fax 716-691-7991 Sample Identification BS-38 (6.0' - 7.1') BS-37 (6.0' - 7.7') BS-39 (6.0' - 6.7') Client Contact **Trip Blank MW-BS39** MW-BS39 Rochester, New York 14614 (585) 454-3066 Project Name: Port Garage 300 State Street, Suite 201 P O # 206377 Phases 4 aBella Associates, P.C. 10 Hazelwood Drive Annherst, NY 14288 Non-Hazard (585) 454-6110 elinquished by: Suite 106

STL Buffalo

