TASK 210:
SUBSURFACE SITE INVESTIGATION

Reconstruction of the Moses Wheeler Bridge
Interstate 95 Over the Housatonic River
Stratford & Milford, Connecticut

Volume 1

ConnDOT Assignment No. 201-2369
ConnDOT Project No. 138-221

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1.0 INTRODUCTION

On behalf of the Connecticut Department of Transportation (ConnDOT), Maguire Group Inc. has conducted a Task 210 - Subsurface Site Investigation in association with the Reconstruction of the Moses Wheeler Bridge in Stratford and Milford, Connecticut. The project involves the reconstruction of the Moses Wheeler Bridge, which carries Interstate 95 over the Housatonic River, for a total length of approximately 1,095 meters (3,590 feet). The proposed project will involve the construction of a new bridge, as well as improvements to the bridge approaches on both sides of the river.

Based upon a review of the construction plans, it is anticipated that the project will involve rights-of-way taking, cut and fill activities, drainage structure improvements, and utility realignments. This Task 210 - Subsurface Site Investigation was conducted in areas of anticipated construction and/or right-of-way activities for the bridge approaches and related Interstate 95 and Moses Wheeler Bridge reconstruction. Figure 1 depicts the project area.

The purpose of the Task 210 - Subsurface Site Investigation was to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts to be encountered during construction. It is anticipated that Task 310 Plans and Specifications will subsequently be prepared to assess construction related activities (i.e. proper storage, classification, transport and disposal of contaminated materials), in relationship to the environmental conditions prevalent within the project limits, as well as to specify remedial work to be included in the Contract Bid Documents.

A consultant for the Environmental Protection Agency (EPA) completed a separate and additional investigation of the properties adjacent to the former Raymark site in Stratford, Connecticut. Numerous soil borings and monitoring wells were advanced within the right-of-way areas within the project limits for the Moses Wheeler Bridge reconstruction project. A summary of the pertinent laboratory results from soil and groundwater samples collected from the right-of-way areas by the EPA's environmental consultant are discussed in subsection 5.7 of this report.

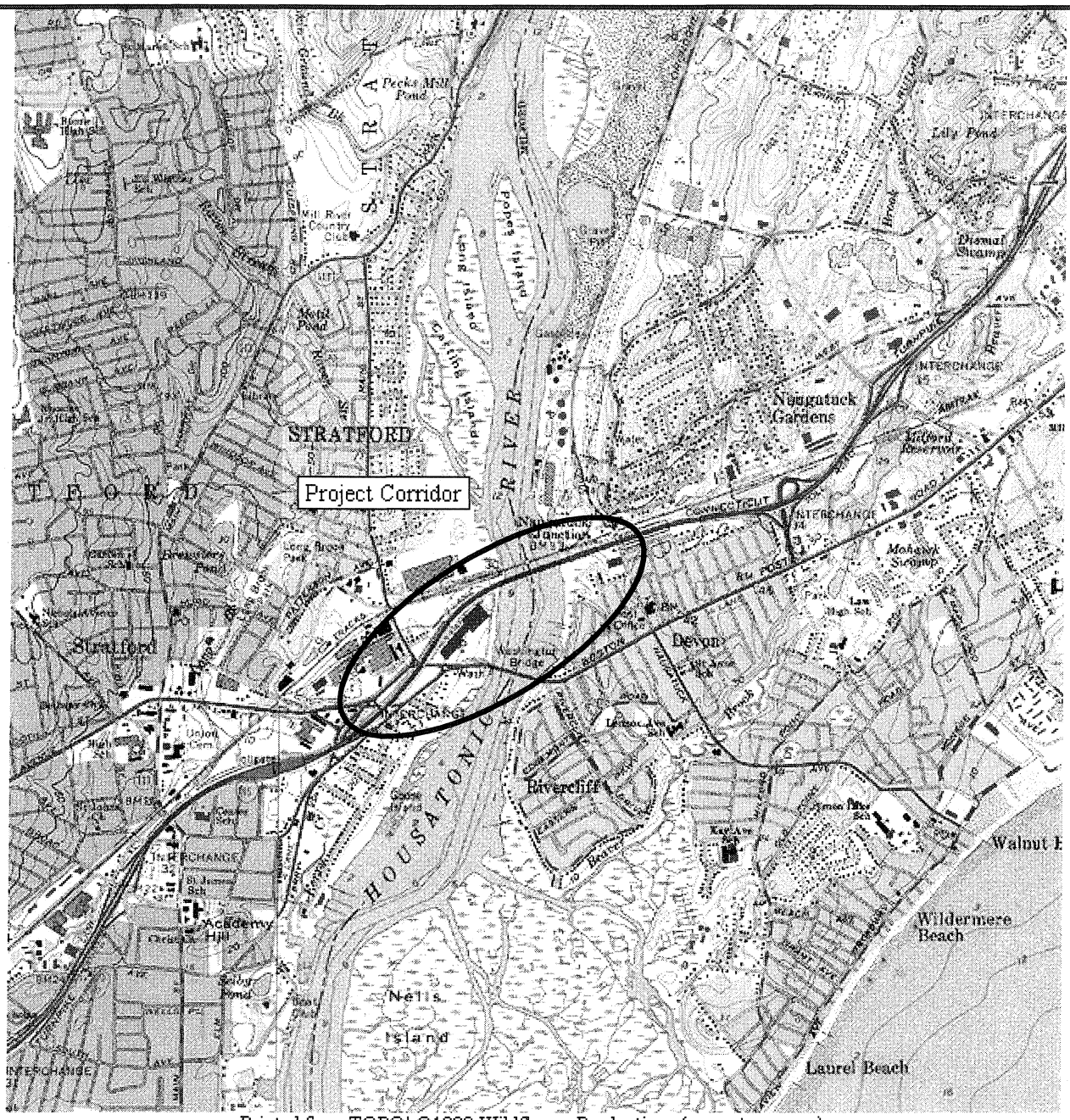

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FIGURE 1 – SITE LOCATION PLAN

Reconstruction of the Moses Wheeler Bridge

Interstate 95 Over the Housatonic River

Stratford & Milford, Connecticut

2.0 SITE DESCRIPTION

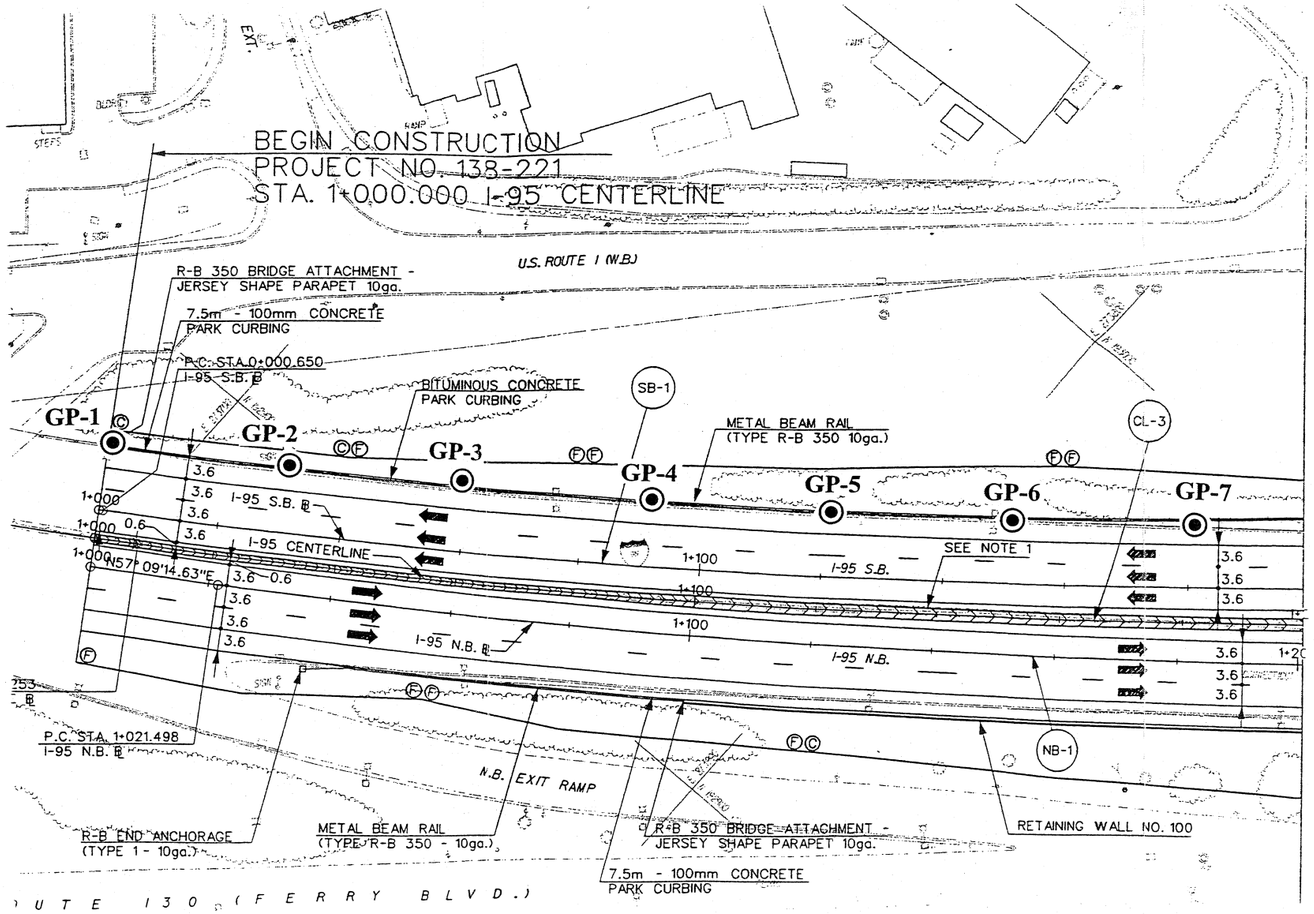
The Moses Wheeler Bridge (Bridge No. 135) structure carries Interstate 95 North and Southbound traffic over the Housatonic River in Stratford and Milford, Connecticut. This Task 210 - Subsurface Site Investigation was conducted in areas of anticipated construction and/or right-of-way activities. The site area is depicted in Figures 2a to 2h - Task 210 Project Area & Sampling Locations. Figures 2a to 2h also depict the sampling locations of the river borings completed in February, March, and April 2002.

3.0 LOCAL ENVIRONMENT & RECEPTORS

3.1 Groundwater

According to the Connecticut Department of Environmental Protection (CTDEP) 1985 Adopted Water Quality Classifications for the Hudson & Housatonic River Basins, the groundwater classification for the project area is GB. A GB groundwater classification indicates that the groundwater has been adversely impacted by waste discharges, spills or leaks of chemicals, or land use impacts. The groundwater is not suitable for direct human consumption without the need for treatment and a public water supply source is available. Groundwater was encountered in several of the borings at depths ranging from 0.3 to 3.5 meters (3 to 11.5 feet) below grade.

All of the properties in the project area are connected to the public water supply system and municipal sewer system. There are no public water supply wells located within a 1,609 meter (1 mile) radius of the project area, according to the CTDEP Bulletin 4, "The Atlas of the Public Water Supply Sources and Drainage Basins of Connecticut," June, 1982. The South Central Regional Water Authority's Milford Reservoir is located approximately 800 meters (one-half mile) to the east of the project corridor.

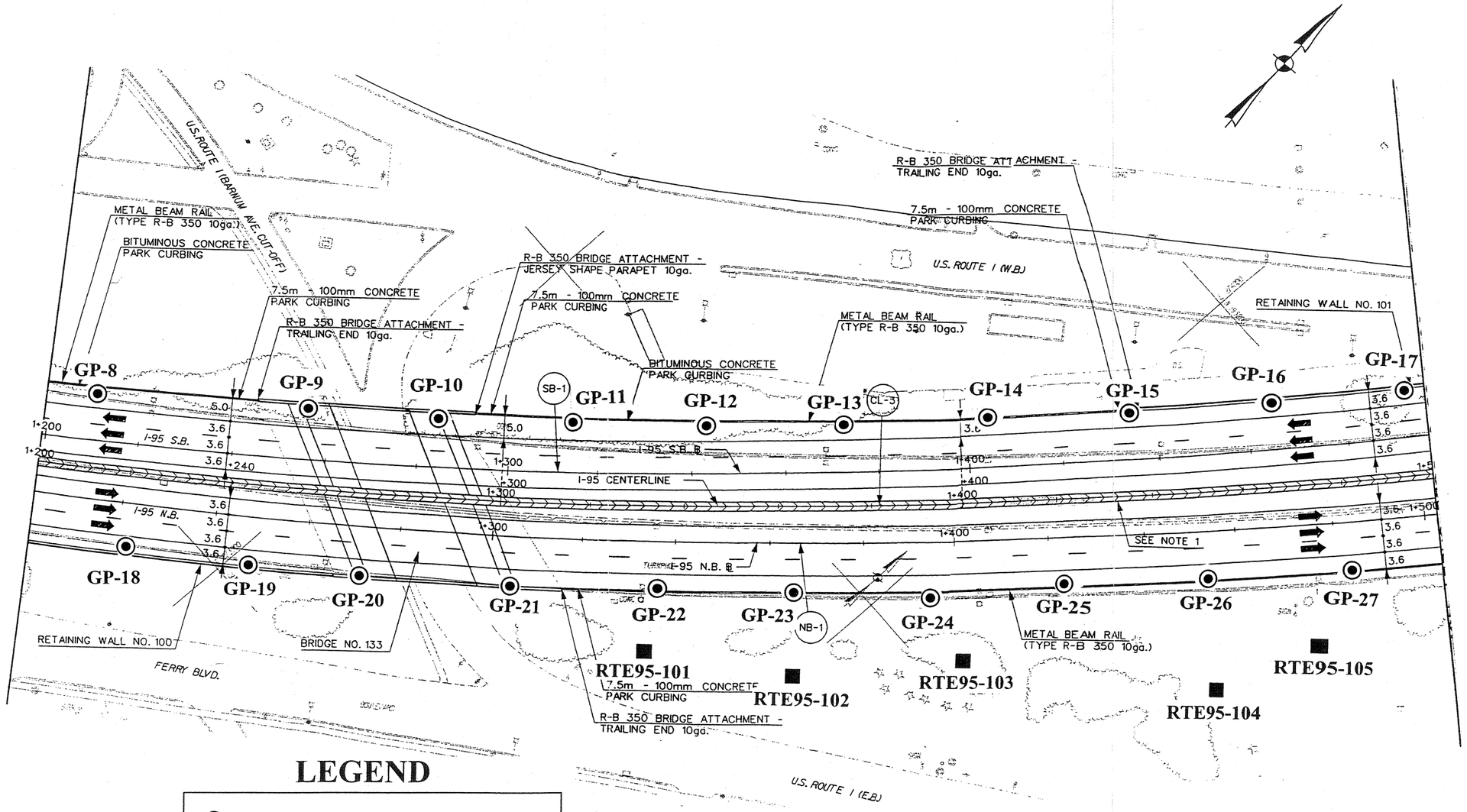


LEGEND

B	= Boring in River
GP	= Boring on Land

SCALE IN METERS
0 5 10 15 20 25
SCALE 1:500

FIGURE 2a - Task 210 Project Area & Sampling Locations
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut



LEGEND

- GP = Boring on Land
- B = Boring in River
- RTE95 = EPA Boring Location

SCALE IN METERS
0 5 10 15 20 25
SCALE 1:500

FIGURE 2b - Task 210 Project Area & Sampling Locations
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

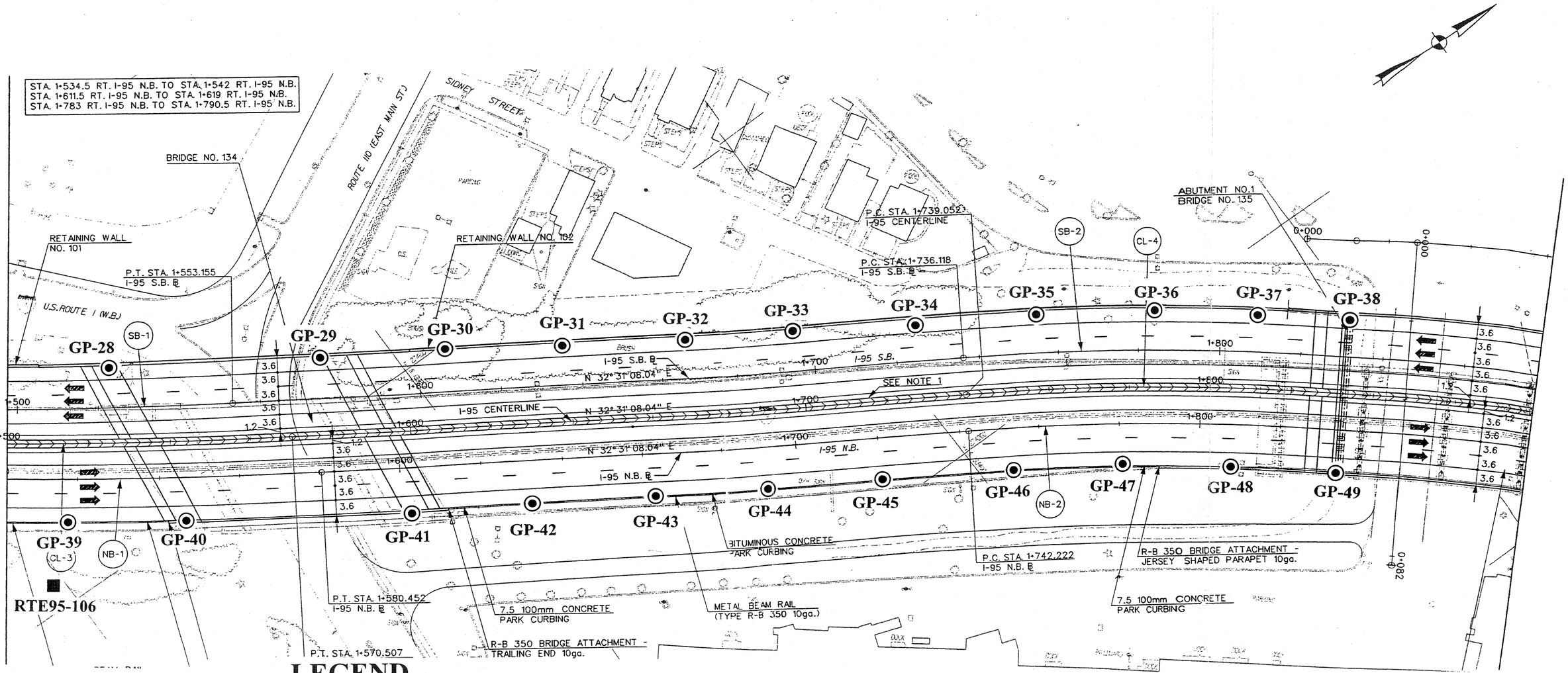
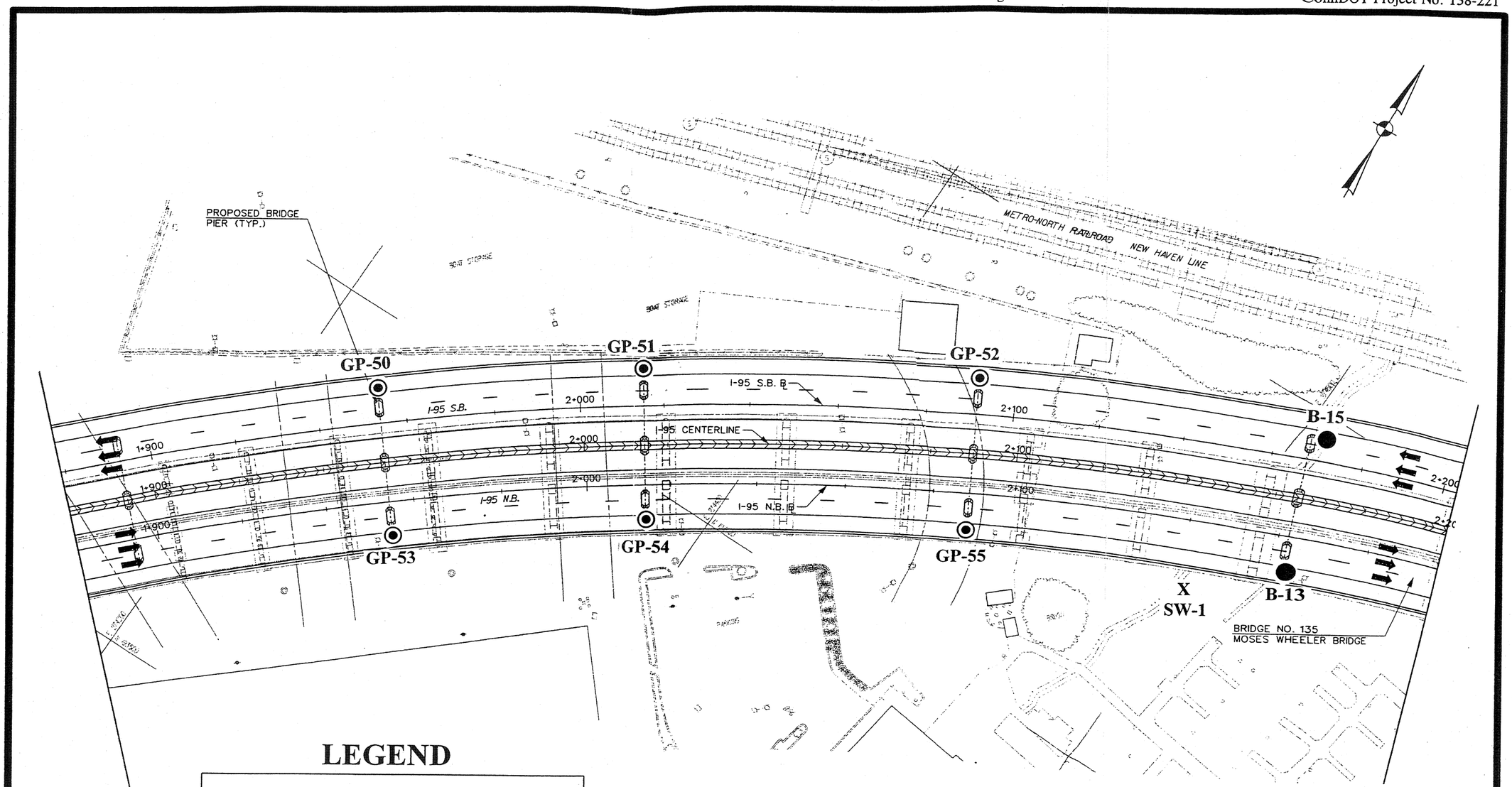


FIGURE 2c - Task 210 Project Area & Sampling Locations
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut



LEGEND

● B	= Boring in River
◉ GP	= Boring on Land
X SW	= Surface Water Sample

SCALE IN METERS
0 5 10 15 20 25
SCALE 1:500

FIGURE 2d - Task 210 Project Area & Sampling Locations
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

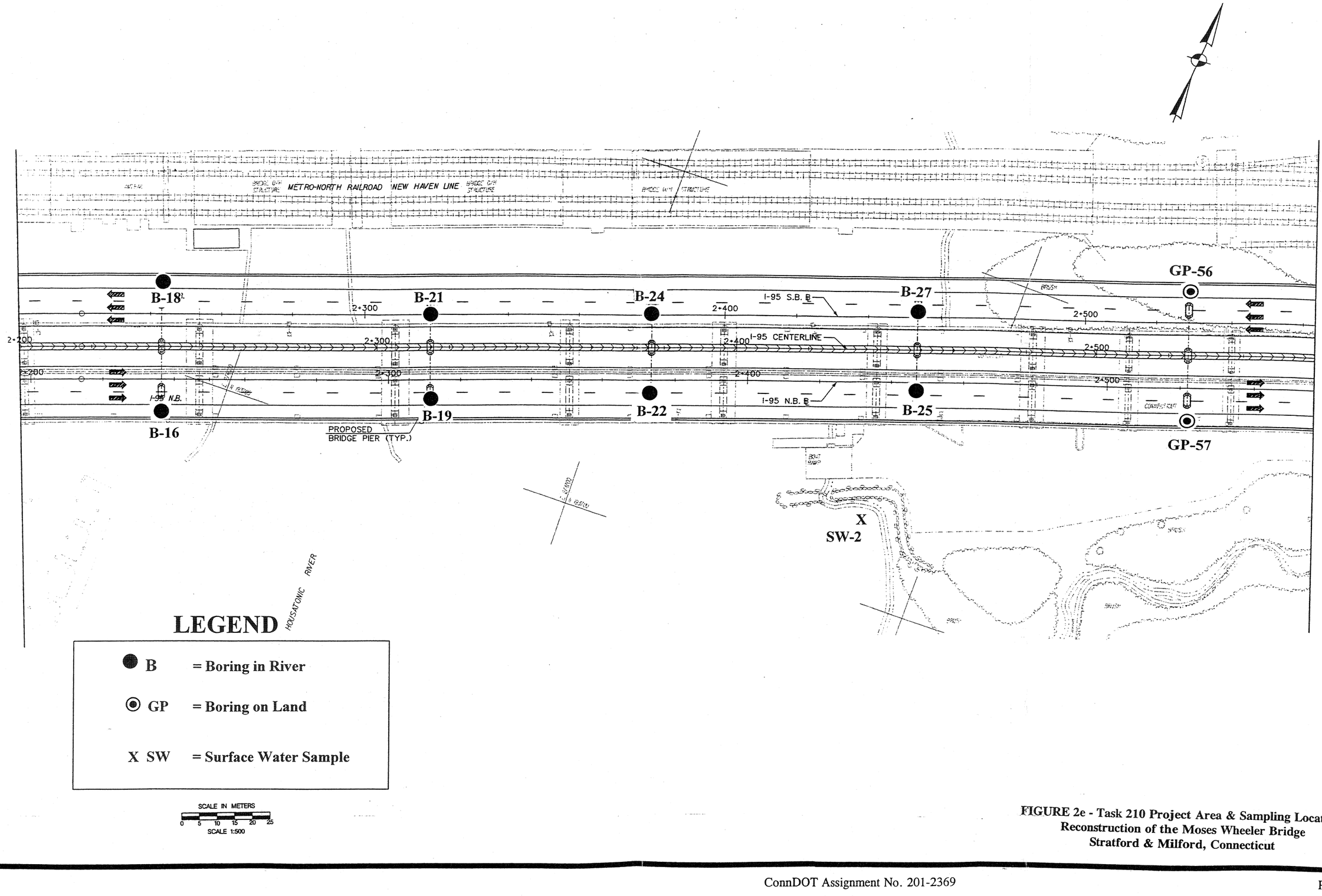
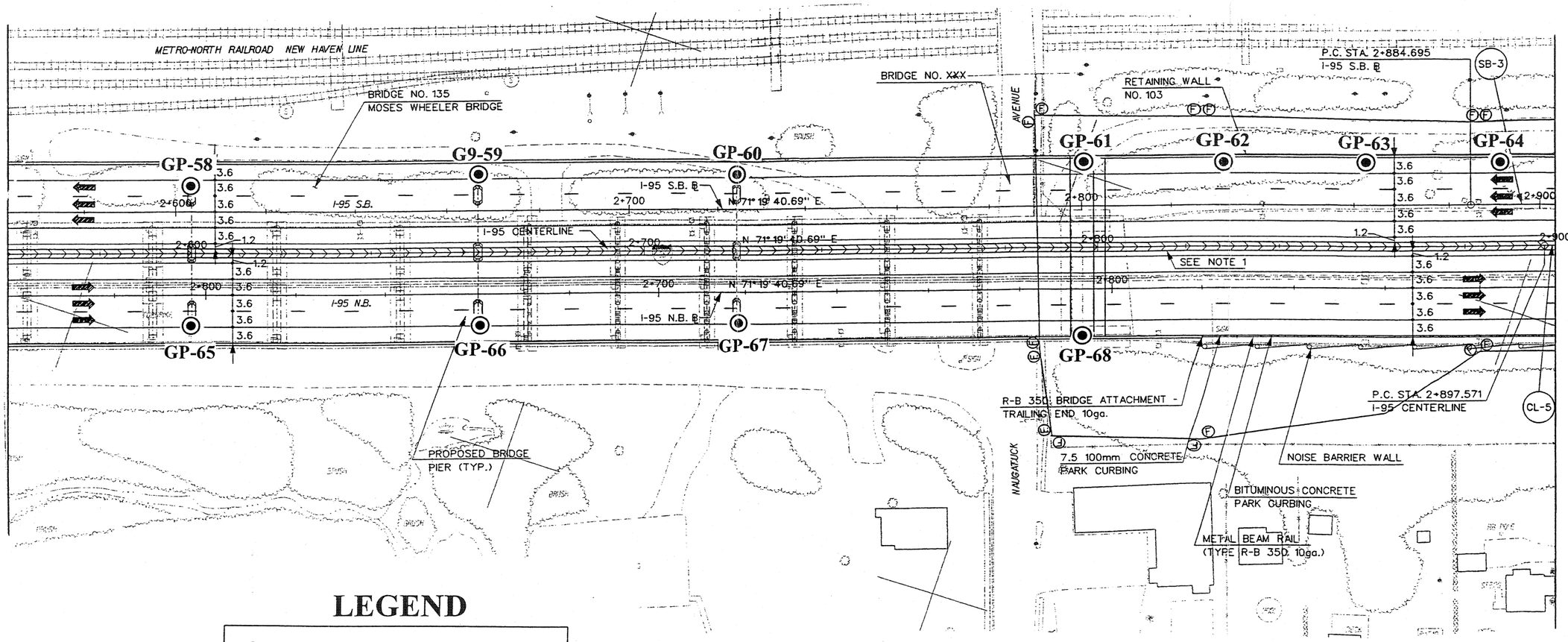


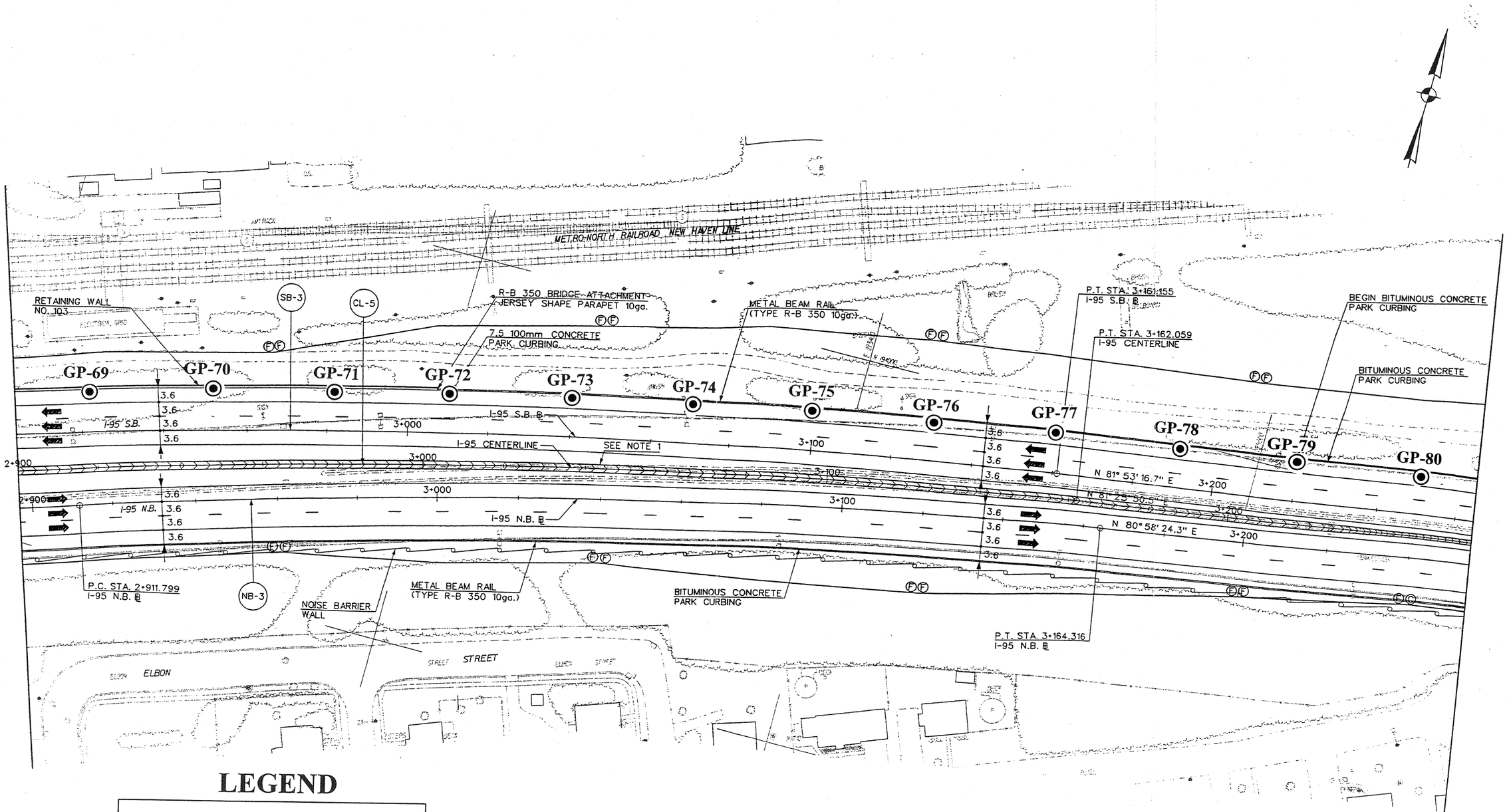
FIGURE 2e - Task 210 Project Area & Sampling Locations
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut



LEGEND

B	= Boring in River
GP	= Boring on Land

FIGURE 2f - Task 210 Project Area & Sampling Locations
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut



LEGEND

B	= Boring in River
GP	= Boring on Land

SCALE IN METERS
0 5 10 15 20 25
SCALE 1:500

FIGURE 2g - Task 210 Project Area & Sampling Locations
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

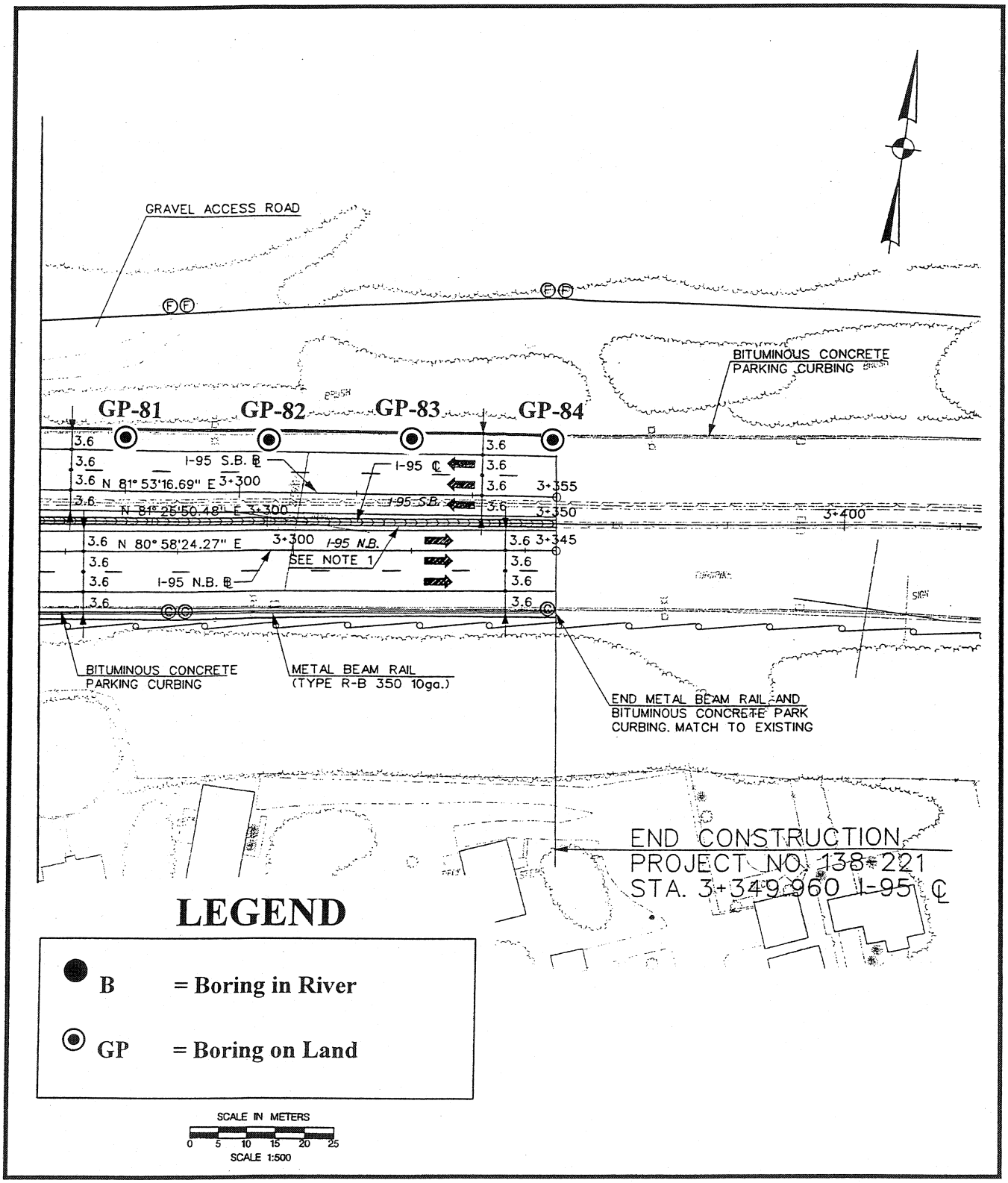


FIGURE 2h - Task 210 Project Area & Sampling Locations
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

3.2 Surface Water

The project area is located within the Housatonic Main Stem Basin, within the Housatonic Major Basin. The Housatonic River divides the Stratford section of the project corridor from the Milford section of the project corridor. The Housatonic River is classified as a Class "SC/SB" surface water body, according to the Connecticut Department of Environmental Protection (CTDEP) 1985 Adopted Water Quality Classifications for the Hudson & Housatonic River Basins. A Class "SC/SB" rating indicates that the water has been adversely impacted due to pollution.

3.3 Geology

The United States Department of Agriculture Soil Conservation Service's *1980 Soils of Connecticut (Bulletin 787)* indicate that the soil in the project area is classified as the Agawam-Merrimac-Hinckley Formation. This formation is described as brown well-drained soil with a sandy and gravelly substratum.

The Bedrock Geological Map of Connecticut, compiled by John Rodgers in 1985, indicates that the bedrock unit underlying the project area is the Oronoque Schist, which is a gray to silver, medium to fine-grained schist and granofels.

Soils encountered during this investigation consisted of fill and brownish to gray sand and silt units with varying amounts of gravel and cobbles. A gray schist rock unit was encountered in nearly all of the borings at depths ranging from 0.6 to 3 meters (2 to 10 feet) below the ground surface.

4.0 SUBSURFACE INVESTIGATION

Based upon the industrial nature of the project corridor surrounding the Moses Wheeler Bridge area, a comprehensive sampling program was conducted within the proposed construction and/or right-of-way areas, including the Housatonic River. The following subsections detail the investigation.

4.1 Geoprobe® Soil Borings & Soil Sample Analyses

On October 3, 4, 7, 8, 9, and 10, 2002, eighty-four (84) Geoprobe® soil borings (GP-1 to GP-84) were advanced within the project corridor. The Geoprobe® borings were advanced by Logical Environmental Solutions, under the direction of MGI. The locations of the Geoprobe® soil borings are depicted on Figures 2a to 2h - Task 210 Project Area & Sampling Locations.

The Geoprobe® soil borings were advanced to a depth of 3.7 meters (12 feet) below grade, or until sample refusal due to suspected bedrock or cobbles. Continuous soil samples were collected utilizing a 1.2 meter (4-foot) long, 5 centimeter (2-inch) diameter Macro Core Sampler with dedicated acetate liners. The soil samples were visually inspected in the field for staining, and described as to physical characteristics and soil type. In addition, the soil samples were screened in the field for total volatile organic compounds utilizing a Photovac photoionization detector (PID). Soil boring logs were generated in the field by Maguire field personnel. The boring logs denote the types of soil encountered, the depth to groundwater and/or bedrock, the total depth reached in each boring, and the highest observed PID reading. Copies of the boring logs are included at the end of this report in Appendix A.

Based upon field screening results and visual observations, one soil sample from each boring was placed in glassware supplied by Spectrum Analytical Laboratory, and stored in an ice-filled cooler. The shallow soil sample (0 to 0.6 meter/0' to 2' below grade) was selected for laboratory analyses if field screening and visual observation did not indicate the presence of contaminants

in the other sample intervals. The analyses for each soil sample included volatile organic compounds (VOCs) utilizing EPA Method 8260, total petroleum hydrocarbons (TPH) utilizing Connecticut ETPH, polynuclear aromatic hydrocarbons (PAHs) utilizing EPA Method 8270, total RCRA 8 metals, and SPLP RCRA 8 metals. Fifty-one (51) selected soil samples were also analyzed for polychlorinated biphenyls (PCBs) utilizing EPA Method 8082.

All Geoprobe® soil borings were back-filled and patched upon completion utilizing clean sand and/or hydrated bentonite. All down-hole sampling equipment was decontaminated in accordance with Maguire's August 2002 Task 210 - Subsurface Site Investigation Work Plan.

4.2 Sediment Sample Collection & Analyses

Ten (10) environmental soil borings were advanced to a depth of 5.2 meters (17 feet) below the mud line within the limits of the Housatonic River, utilizing a barge-mounted rotary drill rig. The borings were situated adjacent to proposed areas of construction and/or right-of-way activities adjacent to the Moses Wheeler Bridge, and were conducted concurrently with the geotechnical boring investigation.

The environmental boring locations (B-13, B-15, B-16, B-18, B-19, B-21, B-22, B-24, B-25 & B-27) are depicted in Figures 2d & 2e – Task 210 Project Area & Sampling Locations. River sediment samples were collected at four intervals throughout the boring utilizing a 0.6 meter (2 foot) long split spoon sampler. The sediment samples were visually inspected in the field for staining, and were described as to physical characteristics and type. The sediment samples were screened in the field for total volatile organic compounds utilizing a Photovac photoionization detector (PID).

Four sediment samples from each boring were placed in laboratory-supplied glassware and stored in an ice-filled cooler. The sample depth intervals from each boring were as follows:

Sample 1:	0.3 to 0.9 meters (1 to 3 feet)
Sample 2:	1.5 to 2.1 meters (5 to 7 feet)
Sample 3:	3 to 3.7 meters (10 to 12 feet)
Sample 4:	4.6 to 5.2 meters (15 to 17 feet)

The analyses of each sediment sample included VOCs utilizing EPA Method 8260, PAHs utilizing EPA Method 8270, TPH utilizing Connecticut ETPH, pesticides and PCBs utilizing EPA Method 8081/8082, herbicides utilizing EPA Method 8151, cyanide utilizing EPA Method 9012, total sulfide, and total and SPLP RCRA 8 metals.

4.3 Groundwater Grab Sample Collection & Analyses

Six groundwater grab samples (GP-5 GW, GP-12 GW, GP-25 GW, GP-40 GW, GP-54 GW, & GP-65 GW) were collected from selected boring locations. The locations of the groundwater grab samples are shown on Figures 2a, 2b, 2c, 2d & 2f – Task 210 Project Area & Sampling Locations. The groundwater grab samples were collected by placing dedicated PVC screen and riser casing into the borehole. Dedicated polyethylene tubing was inserted into the casing and groundwater was drawn through the tubing using a low-flow peristaltic pump. The groundwater grab samples were analyzed for VOCs utilizing EPA Method 8260, PAHs utilizing EPA Method 8270, TPH utilizing the Connecticut ETPH method, and total RCRA 8 metals. The GP-5 GW and GP-12 GW samples were also analyzed for PCBs utilizing EPA Method 8082.

4.4 Surface Water Sample Collection & Analyses

Two surface water samples (SW-1 & SW-2) from the Housatonic River were also collected as part of this Task 210 investigation. The surface water sample locations are depicted on Figures 2d & 2e – Task 210 Project Area & Sampling Locations. The surface water samples were analyzed at Spectrum Analytical for VOCs (EPA Method 8260), PAHs (EPA Method 8270), petroleum hydrocarbons (Connecticut ETPH), PCBs (EPA Method 8082), and total RCRA 8 metals.

4.5 Project Quality Assurance/Quality Control Practices

To assess the collection of samples in the field in terms of the sampling techniques and decontamination procedures followed, quality control and quality assurance samples were collected on each day of sampling activities. Six (6) trip blank samples were prepared by Spectrum Analytical Laboratory and six (6) field blank samples were collected in the field. The field and trip blank samples were stored with the daily samples in the sample cooler until subsequent delivery to the laboratory for analysis of VOCs. Field blank water samples were collected by pouring laboratory supplied de-ionized water through an acetate liner and macro-core cutting shoe, and collecting the rinsate in appropriate sample containers. The field blank samples were stored with the samples in the cooler until delivery to the laboratory, and were analyzed for the same parameters as the daily samples.

All samples collected in the field were stored in a manner that preserved the integrity of the sample chemistry. Samples intended for organic analyses were stored in an ice-filled cooler until delivery to the laboratory. Chain-of-Custody (COC) forms were filled out and accompanied all samples collected as a legal record of possession of the sample. The COC was initiated in the field and accompanied the containers during sample collection, transportation to the lab, analysis, and final disposal of the sample. All sampling equipment was either dedicated to a specific sample or was decontaminated prior to and between each use. Sampling equipment was not placed near solvents, gasoline, or other materials that may have impacted the integrity of the samples.

5.0 DISCUSSION OF SAMPLE RESULTS

5.1 Regulatory Criteria

The CTDEP adopted Remediation Standard Regulations (Regulations of Connecticut State Agencies, Section 22a-133k-1 to 3 and 22a-133q-1) as of January 31, 1996. The Remediation Standard Regulations (RSRs) apply to any site undergoing voluntary remediation under Public Acts 95-183 or 95-190, a transfer of an "establishment" under Public Act 95-183, or any site as ordered by the CTDEP Commissioner. The Regulations also outline the processes for establishing alternative site-specific numerical standards for certain sites, upon approval by the CTDEP.

The RSRs criteria applicable to the soil, sediment, and water sampled during this investigation are summarized below. The application of these RSRs to the results of the laboratory analyses from this investigation is discussed in subsections 5.2, 5.3, 5.4, and 5.5 of this section.

Soils Criteria: The RSRs are organized into two sets of criteria: the Direct Exposure Criteria (DEC) and the Pollutant Mobility Criteria (PMC). The DEC and PMC are briefly explained in the following sub-sections, in relation to how they would be applicable to the types of analyses conducted on the soil samples collected for this investigation. Please refer to the RSRs for a complete explanation of the Regulations.

Direct Exposure Criteria

The purpose of the Direct Exposure Criteria (DEC) is to protect human health from risks associated with the direct contact with or ingestion of various common soil contaminants. The DEC are applicable to soil within approximately 4.6 meters (15 feet) of the ground surface. Concentrations of contaminants are evaluated based upon mass-based analyses and different criteria are established for residential and commercial/industrial properties. The use of the less stringent commercial/industrial standards requires the placement of a land use restriction on the property. The DEC is not applicable to inaccessible soils, including soil more than 1.2 meters (4

feet) below the ground surface, 0.6 meters (2 feet) below pavement greater than 7.6 centimeters (3 inches) thick, or below an existing building, provided that an Environmental Land Use Restriction (ELUR) is placed in effect for the property.

Pollutant Mobility Criteria

The purpose of the Pollutant Mobility Criteria (PMC) is to evaluate the potential for contaminants to leach from the soil in concentrations that may degrade groundwater quality. Different numerical criteria are established for GA and GAA groundwater areas, versus GB groundwater areas. Since the project area is situated within a GB groundwater area, the least stringent criteria apply.

Groundwater Criteria: Contaminants in the groundwater are compared either to background quality or the Groundwater Protection Criteria (GPC), the Volatilization Criteria, as well as the Surface Water Protection Criteria (SWPC). The GPC, Volatilization Criteria, and SWPC are briefly explained in the following sub-sections, in relation to how they would be applicable to the types of analyses conducted on the aqueous samples collected for this investigation.

Groundwater Protection Criteria

The purpose of the Groundwater Protection Criteria is to protect the groundwater quality in areas that have the potential to use groundwater as a drinking water source (GA, GB/GA, & GAA groundwater classification areas). Since the project area is situated within a GB groundwater area, the GPC do not apply.

Volatilization Criteria

The purpose of the Volatilization Criteria standard is to ensure that volatile organic compounds (VOCs) in groundwater do not pose an unacceptable risk to human health due to the inhalation of VOCs that may enter into a structure on the property. The Volatilization Criteria only apply when impacted groundwater is located within 4.6 meters (15 feet) of the ground surface or any structure. Different criteria exist for residential and commercial/industrial properties. The use of the less stringent commercial/industrial standards requires the placement of an ELUR on the property.

Surface Water Protection Criteria

The purpose of the Surface Water Protection Criteria (SWPC) standards are to ensure that groundwater discharging to a surface water body will not adversely effect surface water quality. Since the Housatonic River is situated within the project corridor, the SWPC apply.

5.2 Results of Soil Sample Analyses

Soil samples collected during the advancement of the Geoprobe® borings were sent to Spectrum Analytical Laboratory for laboratory analyses. A summary of the laboratory results from the soil samples is presented in Tables 1(a) to 1(u), which are located at the end of this report, and copies of the soil sample analytical results are included in Appendix B. The following summarizes the results of the analyses conducted on the soil samples.

Only two soil samples contained detectable concentrations of VOCs. The 1.2 to 2.4 meter (4 to 8 foot) soil sample collected from boring GP-12 contained the VOC cis-1,2-dichloroethene at a concentration of 0.99 parts per million (ppm). The concentration of cis-1,2-dichloroethene detected in the sample does not exceed any applicable CTDEP RSR criteria.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample collected from boring GP-65 contained the VOC methyl tertiary butyl ether (MTBE) at a concentration of 0.063 ppm. The concentration of MTBE detected in the sample does not exceed any applicable CTDEP RSR criteria.

Concentrations of petroleum hydrocarbons (TPH) were detected in all of the borings from Below Detectable Limits to 910 ppm. The following two samples contained TPH at concentrations that exceed the GB PMC of 500 ppm: GP-10, 1.2 to 2.4m/4' to 8' (770 ppm); and GP-21 0.6 to 1.2m/2' to 4' (910 ppm).

Various concentrations of PAHs were detected throughout the project corridor, and total PAH concentrations ranged from BDL to 55.98 ppm. PAH concentrations were detected at elevated concentrations that exceed applicable CTDEP RSR criteria in eleven (11) soil samples. The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-9 contained the compounds benzo(a)anthracene (1.3 ppm), benzo(a)pyrene (1.4 ppm), benzo(b)fluoranthene (1.3 ppm), and chrysene (1.4 ppm) at concentrations that exceed their respective GB PMC. In addition, the compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were detected at concentrations that exceed their respective Residential DEC. The compound benzo(a)pyrene was detected at a concentration that also exceeds its Commercial/Industrial DEC.

The 1.2 to 2.4 meter (4 to 8 foot) soil sample from boring GP-10 contained the compounds benzo(a)anthracene (2.2 ppm), benzo(a)pyrene (2.0 ppm), benzo(b)fluoranthene (2.1 ppm), benzo(k)fluoranthene (1.3 ppm), and chrysene (2.5 ppm) at concentrations that exceed their respective GB PMC. In addition, the compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were detected at concentrations that exceed their respective Residential DEC. The compound benzo(a)pyrene was detected at a concentration that also exceeds its Commercial/Industrial DEC.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-11 contained the compounds benzo(a)anthracene (1.2 ppm), benzo(a)pyrene (1.4 ppm), benzo(b)fluoranthene (1.9 ppm), benzo(k)fluoranthene (1.1 ppm), and chrysene (1.8 ppm) at concentrations that exceed their respective GB PMC. In addition, the compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were detected at concentrations that exceed their respective Residential DEC. The compound benzo(a)pyrene was detected at a concentration that also exceeds its Commercial/Industrial DEC.

The 1.2 to 2.4 meter (4 to 8 foot) soil sample from boring GP-12 contained the compounds benzo(a)anthracene (3.6 ppm), benzo(a)pyrene (5.1 ppm), benzo(b)fluoranthene (5.6 ppm), benzo(k)fluoranthene (3.9 ppm), chrysene (5.4 ppm), and indeno(1,2,3-cd)pyrene (4.2 ppm) at concentrations that exceed their respective GB PMC. In addition, the compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were detected at concentrations that exceed their respective Residential DEC. The compound benzo(a)pyrene was detected at a concentration that also exceeds its Commercial/Industrial DEC.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-18 contained the compound benzo(b)fluoranthene (1.1 ppm) at a concentration that exceeds its GB PMC and Residential DEC.

The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-20 contained the compounds benzo(a)pyrene (1.1 ppm) and benzo(b)fluoranthene (1.3 ppm) at concentrations that exceed their respective GB PMC and Residential DEC. The compound benzo(a)pyrene was detected at a concentration that also exceeds its Commercial/Industrial DEC.

The 1.2 to 2.4 meter (4 to 8 foot) soil sample from boring GP-21 contained the compounds benzo(a)anthracene (1.9 ppm), benzo(a)pyrene (2.3 ppm), benzo(b)fluoranthene (3.2 ppm), benzo(k)fluoranthene (1.4 ppm), chrysene (1.9 ppm), and indeno(1,2,3-cd)pyrene (3.0 ppm) at concentrations that exceed their respective GB PMC. In addition, the compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were detected at concentrations that exceed their respective Residential DEC. The compound benzo(a)pyrene was detected at a concentration that also exceeds its Commercial/Industrial DEC.

The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-22 contained the compounds benzo(a)anthracene (2.2 ppm), benzo(a)pyrene (3.2 ppm), benzo(b)fluoranthene (3.8 ppm), benzo(k)fluoranthene (1.2 ppm), chrysene (2.2 ppm), and indeno(1,2,3-cd)pyrene (2.7 ppm) at concentrations that exceed their respective GB PMC. In addition, the compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were detected at concentrations that exceed their respective Residential DEC. The compound benzo(a)pyrene was detected at a concentration that also exceeds its Commercial/Industrial DEC.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-38 contained the compounds benzo(a)anthracene (1.1 ppm), benzo(b)fluoranthene (1.4 ppm), and chrysene (2.0 ppm) at concentrations that exceed their respective GB PMC. In addition, the compounds benzo(a)anthracene and benzo(b)fluoranthene were detected at concentrations that exceed their respective Residential DEC.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-41 contained the compounds benzo(a)anthracene (1.1 ppm), benzo(a)pyrene (1.2 ppm), benzo(b)fluoranthene (1.5 ppm), and chrysene (1.2 ppm) at concentrations that exceed their respective GB PMC. In addition, the compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were detected at concentrations that exceed their respective Residential DEC. The compound benzo(a)pyrene was detected at a concentration that also exceeds its Commercial/Industrial DEC.

The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-73 contained the compounds benzo(a)anthracene (2.9 ppm), benzo(a)pyrene (1.1 ppm), benzo(b)fluoranthene (2.5 ppm), benzo(k)fluoranthene (1.9 ppm), chrysene (3.1 ppm), and dibenz(a,h)anthracene (1.1 ppm) at concentrations that exceed their respective GB PMC. In addition, the compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene were detected at concentrations that exceed their respective Residential DEC. The compounds benzo(a)pyrene and dibenz(a,h)anthracene were detected at concentrations that also exceed their Commercial/Industrial DEC.

Fifty-one selected soil samples were analyzed for PCBs, and five (5) samples contained detectable concentrations of PCBs. The GP-6 (0.57 ppm), GP-7 (0.12 ppm), GP-8 (0.13 ppm), GP-11 (0.03 ppm), and GP-12 (0.22 ppm) samples contained PCBs at low concentrations that did not exceed any applicable CTDEP RSR criteria.

Total concentrations of the metals arsenic, barium, cadmium, chromium, lead, and mercury were detected at varying concentrations in the soil samples throughout the project corridor. Total arsenic was detected at elevated concentrations that exceed the Residential and Industrial/Commercial DEC of 10 ppm in the following eight samples: GP-38 (10.4 ppm), GP-50 (132 ppm), GP-51 (13.4 ppm), GP-52 (24.4 ppm), GP-53 (18.6 ppm), GP-54 (60.2 ppm), GP-55 (11.2 ppm), and GP-61 (13.0 ppm).

Total lead was detected at elevated concentrations that exceed the Residential DEC of 500 ppm in the following three samples: GP-21 (516 ppm), GP-23 (533 ppm), and GP-68 (1,360 ppm). The concentration of total lead detected in the GP-68 sample also exceeded the Commercial/Industrial DEC of 1,000 ppm.

Leachable concentrations of barium, cadmium, chromium, and lead were detected at varying concentrations throughout the project corridor. The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-68 contained leachable lead at a concentration of 0.256 ppm, which exceeds the GB PMC. No other soil samples contained leachable metal concentrations at concentrations that exceed any applicable CTDEP RSR criteria.

5.3 Results of Sediment Sample Analyses

The forty (40) sediment samples collected from the Housatonic River borings were sent to Spectrum Analytical for laboratory analyses. Summaries of the laboratory results from the sediment samples are presented in Tables 2(a) to 2(j), which are located at the end of this report, and copies of the sediment sample analytical results are included in Appendix C. The following summarizes the results of the analyses conducted on the sediment samples. For the purpose of comparison, the results were compared to the CTDEP RSR soil criteria.

VOCs, pesticides, PCBs, herbicides, and total cyanide were not detected in any of the sediment samples. Petroleum hydrocarbons were detected in the sediment samples at concentrations ranging from BDL to 1,200 ppm, and only one sample contained petroleum hydrocarbons at concentrations that exceed CTDEP RSR criteria. The B-25-1 sample collected from 0.3 to 0.9 meters (1 to 3 feet) below the mud line contained TPH at a concentration of 1,200 ppm, which exceeds the Residential DEC.

Total PAH concentrations in the sediment samples ranged from BDL to 21.04 ppm, and only one sample contained PAH compounds at concentrations that exceed CTDEP RSR criteria. The B-25-1 sample collected from 0.3 to 0.9 meters (1 to 3 feet) below the mud line contained the compounds benzo(a)anthracene (1.4 ppm), benzo(b)fluoranthene (1.2 ppm), and chrysene (1.4 ppm) at concentrations that exceed their respective GB PMC. In addition, the compounds benzo(a)anthracene and benzo(b)fluoranthene were detected at concentrations that exceed their respective Residential DEC.

Total sulfide was detected in all of the samples at concentrations ranging from BDL to 254 ppm. There currently are no CTDEP RSR criteria for total sulfide.

Total concentrations of the metals barium, cadmium, chromium, lead, and mercury were detected in the sediment samples. Total chromium was detected in the 0.3 to 0.9 meter (1 to 3 foot) samples from B-25-1 (214 ppm) and B-27-1 (129 ppm), at concentrations that exceed the Residential and Commercial/Industrial DEC.

Total lead was detected in the 3 to 3.7 meter (10 to 12 foot) sample from B-16-3 (29,000 ppm) and the 4.6 to 5.2 meter (15 to 17 foot) sample from B-16-4 (34,600 ppm), at concentrations that exceed the Residential and Commercial/Industrial DEC.

Total mercury was detected in the 0.3 to 0.9 meter (1 to 3 foot) sample from B-15-1 (365 ppm), at a concentration that exceeds the Residential DEC.

Leachable concentrations of the metals barium, chromium, and lead were detected in the sediment samples. Leachable lead was detected in the 3 to 3.7 meter (10 to 12 foot) sample from B-16-3 (1.06 ppm), at a concentration that exceeds the GB PMC. No other leachable metals were detected at concentrations that exceed any CTDEP RSR criteria.

5.4 Results of Groundwater Grab Sample Analyses

The groundwater grab samples (GP-5 GW, GP-12 GW, GP-25 GW, GP-40 GW, GP-54 GW, & GP-65 GW) collected during this investigation was sent to Spectrum Analytical for laboratory analyses. Summaries of the laboratory results from the groundwater samples are presented in Table 3(a) and 3(b), which are located at the end of this report, and copies of the groundwater sample analytical results are included in Appendix D.

TPH, PAHs, and PCBs were not detected in the groundwater grab samples. VOCs were detected in the GP-5 GW, GP-12 GW, GP-25 GW and GP-65 GW samples. The GP-5 GW sample contained the VOC 1,1-dichloroethene (110 parts per billion [ppb]) at a concentration that exceeds its SWPC, Residential VC, and Commercial/Industrial VC. The GP-25 GW sample also contained 1,1-dichloroethene (150 ppb) at a concentration that exceeds its SWPC, Residential VC, and Commercial/Industrial VC. The GP-25 GW sample also contained vinyl chloride (38 ppb) at a concentration that exceeds its Residential VC and Commercial/Industrial VC. No other samples contained VOCs at concentrations that exceed any applicable CTDEP RSR criteria.

Total concentrations of the metals arsenic, barium, cadmium, chromium, and lead were detected in varying amounts in the groundwater samples. Total arsenic was detected at concentrations that exceed the SWPC in the GP-12 GW (0.0445 ppm), GP-25 GW (0.0155 ppm), and GP-65 GW (0.0138 ppm) samples. Total chromium was detected at concentrations that exceed the SWPC in the GP-25 GW (0.276 ppm) and GP-65 GW (0.0303 ppm) samples. In addition, total lead was detected at concentrations that exceed the SWPC in the GP-25 GW (0.0166 ppm) and GP-65 GW (0.0559 ppm) samples.

5.5 Results of Surface Water Sample Analyses

The surface water grab samples (SW-1 & SW-2) collected from the Housatonic River were sent to Spectrum Analytical for laboratory analyses. Summaries of the laboratory results from the surface water grab samples are presented in Table 4, which is located at the end of this report, and copies of the surface water sample analytical results are included in Appendix E. For the purpose of comparison, the results were compared to the CTDEP RSR groundwater criteria.

The two surface water samples did not contain detectable concentrations of VOCs, TPH, PAHs, and PCBs. The SW-1 surface water sample contained barium at a concentration of 0.0065 ppm, which does not exceed any applicable CTDEP RSR criteria. No other metals were detected in either sample.

5.6 Quality Assurance/Quality Control Samples

The field blank samples (FB-1 to FB-6) did not contain VOCs, TPH, PAHs, PCBs, or total metals at concentrations that exceed any laboratory detection limits. The trip blank samples (TB-1 to TB-6) did not contain detectable concentrations of VOCs. Copies of the analytical reports associated with the quality assurance/quality control samples are included in Appendix F.

5.7 Results of EPA Investigation

The EPA is conducting a Remedial Investigation/Feasibility Study that encompasses many Stratford properties adjacent to the former Raymark site located at the intersection of Route 1 and Route 110. As part of the EPA's investigation, numerous soil borings and monitoring wells were installed in the right-of-way areas associated with the Moses Wheeler Bridge project. The EPA's consultant (Tetra Tech NUS, Inc.) provided the CTDOT copies of analytical results for soil and groundwater samples collected from the project limits (See Appendix G). The following summarizes the results of the investigation.

Soil samples collected from EPA's borings RTE95-101 through RTE95-106 located along the southern side of Ferry Boulevard, (in the vicinity of CTDOT borings GP-21 to GP-27, GP-39 and GP-40 shown on Figures 2b & 2c) indicated the presence of PCBs at low concentrations ranging from 0.252 to 3.54 ppm. The PCBs were detected in soil samples collected from 0 to 1.8 meters (0 to 6 feet) below the ground surface. The PCB concentrations detected do not exceed any applicable CTDEP RSR criteria. Total lead was also detected in these samples at concentrations ranging from 120 to 249 ppm. The lead concentrations detected do not exceed any applicable CTDEP RSR criteria.

Groundwater samples from monitoring wells located throughout the project corridor contained VOCs at concentrations that exceed their respective SWPC, Residential VC, and Commercial/Industrial VC. In addition, the groundwater contained total concentrations of the metals arsenic, beryllium, cadmium, copper, lead, nickel, thallium, and zinc at concentrations that exceed their respective SWPC.

6.0 DISCUSSION OF AFFECTED RESOURCES

6.1 Areas of Environmental Concern

Based upon the results of laboratory analyses performed on the soil, sediment, groundwater, and surface water samples for this Task 210 investigation, seven (7) areas of environmental concern (AOEC-1 through AOEC-7) have been identified where contaminants in the soil were detected at concentrations that exceed applicable CTDEP RSR criteria. In addition, seven (7) low-level areas of environmental concern (LLAOEC-A through LLAOEC-G) have been identified where contaminants in the soil were detected at concentrations below applicable CTDEP RSR standards, but above laboratory detection limits. The locations of the AOECs and LLAOECs within the project corridor are discussed in the following section.

AOEC #1: Samples GP-9, GP-10, GP-11, GP-12, GP-18, GP-20, GP-21, GP-22, & GP-23

Analytical results from the soil samples collected from borings GP-9 through GP-12, GP-18, and GP-20 through GP-23 indicate the presence of PAH contamination at slightly elevated concentrations in shallow soil ranging from 0 to 2.4 meters (0 to 8 feet) below grade. The contamination detected exceeds the GB PMC, Residential DEC, and Commercial/Industrial DEC. Petroleum hydrocarbons were detected at slightly elevated concentrations that exceed the Residential DEC in the GP-10 (1.2 to 2.4 meter/4 to 8 foot) and GP-21 (0.6 to 1.2 meter/2 to 4 foot) samples. In addition, total lead was detected at slightly elevated concentrations that exceed the Residential DEC in the GP-21 (0.6 to 1.2 meter/2 to 4 foot) and GP-23 (0 to 0.6 meter/0 to 2 foot) samples. Also, EPA soil sample locations RTE95-101 through RT95-106 contained low levels of PCBs and total lead at concentrations below CTDEP standards. The groundwater collected from the GP-12 boring, and the EPA's monitoring well samples collected from the area contained VOCs, PAHs, and total arsenic at concentrations that exceed their respective SWPC, Residential VC, and Commercial/Industrial VC.

AOEC #2: Sample GP-41

Analytical results from the soil sample collected from boring GP-41 indicates the presence of PAHs at slightly elevated concentrations in shallow soil ranging from 0.6 to 1.2 meters (2 to 4 feet) below grade. The contamination detected exceeds the GB PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #3: Samples GP-38, GP-50, GP-51, GP-52, GP-53, GP-54, GP-55, & B-15

Analytical results from the soil samples collected from borings GP-38, and GP-50 to GP-55 indicate the presence of total arsenic contamination at elevated concentrations in shallow soil ranging from 0 to 2.4 meters (0 to 8 feet) below grade. The contamination detected exceeds the Residential DEC and Commercial/Industrial DEC. In addition, the GP-38 0.6 to 1.2 meter (2 to 4 foot) sample contained PAHs at concentrations that exceed the GB PMC and Residential DEC.

The B-15 sediment sample collected from the Housatonic River boring contained total mercury at a concentration that exceeds its Residential DEC. The contamination was detected in sediment ranging from 0.3 to 0.9 meters (1 to 3 feet) below the mud line of the river bottom.

AOEC #4: Sample B-16

Analytical results from the sediment samples collected from the Housatonic River boring B-16 indicate the presence of total and leachable lead contamination in sediment ranging from 3 to 5.2 meters (10 to 17 feet) below the mud line of the river bottom. The contamination detected exceeds the GB PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #5: Samples B-25 & B-27

Analytical results from the sediment samples collected from the Housatonic River borings B-25 and B-27 indicate the presence of TPH, PAH, and total chromium contamination at slightly elevated concentrations in sediment ranging from 0.3 to 0.9 meters (1 to 3 feet) below grade. The contamination detected exceeds the GB PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #6: Samples GP-61 & GP-68

Analytical results from the soil samples collected from borings GP-61 & GP-68 indicate the presence of total arsenic, total lead, and leachable lead contamination at slightly elevated concentrations in shallow soil ranging from 0 to 1.2 meters (0 to 4 feet) below grade. The contamination detected exceeds the GB PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #7: Sample GP-73

Analytical results from the soil sample collected from boring GP-73 indicates the presence of PAHs at slightly elevated concentrations in shallow soil ranging from 0 to 0.6 meters (0 to 2 feet) below grade. The contamination detected exceeds the GB PMC, Residential DEC, and Commercial/Industrial DEC.

LLAOEC #A: Samples GP-1 to GP-8

Analytical results from the soil samples collected from borings GP-1 to GP-8 indicate the presence of TPH, PAHs, and PCBs at concentrations below CTDEP RSR standards. The contaminants were detected in soil ranging from 0 to 2.4 meters (0 to 8 feet) below grade.

Analytical results from the groundwater sample collected from boring GP-5 indicates the presence of VOCs at slightly elevated concentrations that exceed the SWPC, Residential VC, and Commercial/Industrial VC. In addition, groundwater samples collected for the EPA's investigation in the vicinity of GP-5 indicate the presence of VOCs and total metals at concentrations that exceed applicable SWPC, Residential VC, and Commercial/Industrial VC.

LLAOEC #B: Samples GP-14, GP-24 & GP-25

Analytical results from the soil samples collected from borings GP-14 and GP-24 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. In addition, soil samples collected for the EPA's investigation in this vicinity contained low concentrations of PCBs and lead below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 1.8 meters (0 to 6 feet) below grade.

Analytical results from the groundwater sample collected from boring GP-25 indicates the presence of total metals at slightly elevated concentrations that exceed the SWPC.

LLAOEC #C: Samples GP-16, GP-17, GP-27, GP-29, GP-30, GP-31, GP-32, GP-33, GP-39, GP-40, GP-42, GP-43, GP-44, GP-45, GP-46, & GP-47

Analytical results from the soil samples collected from borings GP-16, GP-17, GP-27, GP-29 to GP-33, GP-39, GP-40, and GP-42 to GP-47 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. In addition, soil samples collected for the EPA's investigation in this vicinity contained low concentrations of PCBs below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 2.4 meters (0 to 8 feet) below grade.

Groundwater samples collected for the EPA's investigation in this area also indicate the presence of VOCs and total metals at concentrations that exceed applicable SWPC, Residential VC, and Commercial/Industrial VC.

LLAOEC #D: Samples B-13 & B-18

Analytical results from the sediment samples collected from the Housatonic River borings B-13 and B-18 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in sediment ranging from 0.3 to 2.1 meters (1 to 7 feet) below the mud line of the river bottom.

LLAOEC #E: Samples GP-56, GP-57 & GP-65

Analytical results from the soil samples collected from borings GP-56, GP-57, and GP-65 indicate the presence of TPH, PAHs, and VOCs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0.6 to 1.2 meters (2 to 4 feet) below grade. In addition, analytical results from the groundwater sample collected from boring GP-65 indicates the presence of total metals at slightly elevated concentrations that exceed the SWPC.

LLAOEC #F: Sample GP-64

Analytical results from the soil sample collected from boring GP-64 indicates the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0.6 to 1.2 meters (2 to 4 feet) below grade.

LLAOEC #G: Samples GP-80, GP-81 & GP-82

Analytical results from the soil samples collected from borings GP-80, GP-81, and GP-82 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 0.6 meters (0 to 2 feet) below grade.

In addition to the areas discussed above, widespread groundwater contamination exists within the project corridor. Therefore, the entire project corridor has been designated as a groundwater area of environmental concern.

7.0 RECOMMENDATIONS

The results of the Task 210 – Subsurface Site Investigation for the Reconstruction of the Moses Wheeler Bridge in Stratford & Milford, Connecticut indicate the presence of TPH, PAH, total arsenic, total lead, and leachable lead contamination in shallow soil samples collected from the project area, at concentrations that exceed the applicable RSR criteria. The contamination was detected in soils ranging in depth from 0 to 1.8 meters (0 to 6 feet) below grade. Also PCBs were detected at low levels in soil samples collected from various locations throughout the project corridor at concentrations below RSR criteria. In addition, the sediment samples collected from the Housatonic River indicate the presence of TPH, PAH, total chromium, total lead, total mercury, and leachable lead contamination at concentrations that exceed the applicable CTDEP RSR criteria. Groundwater throughout the corridor is also impacted with VOCs, total metals, and PAHs at concentrations that exceed the RSR standards. Seven (7) Areas of Environmental Concern (AOEC) and seven (7) Low-Level Areas of Environmental Concern (LLAOECs) with regard to soil and sediment have been identified within the project corridor. A groundwater AOEC is also designated for the entire project corridor. Special considerations for treatment/disposal and worker health and safety must be given to these areas in order to ensure compliance with all local, State and Federal laws. Task 310 Plans and Specifications are therefore recommended for the areas of construction within the Areas of Environmental Concern and Low-Level Areas of Environmental Concern described in Section 6.0 above.

8.0 LIMITATIONS

All work product and reports provided by Maguire Group Inc. (MGI) in connection with the performance of this Task 210 - Subsurface Site Investigation are subject to the following limitations:

1. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services provided to ConnDOT.

2. In preparing this report, MGI has relied on certain information provided by State and local officials and information and representations made by other parties referenced therein, and on information contained in the files of State and/or local agencies made available to MGI at the time of this investigation. To the extent that such files are missing, incomplete or not provided to MGI, MGI is not responsible. Although there may have been some degree of overlap in the information provided by these various sources, MGI did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this investigation.

3. The conclusions and recommendations contained in this report are based in part upon the data from subsurface explorations. The nature and extent of variations between these explorations may not become evident until further explorations are completed. If variations or other latent conditions become evident, it will be necessary to re-evaluate the conclusions and recommendations of this report.

4. The water level readings made for this investigation were made at the times and conditions stated on the boring logs. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall, passage of time and other factors. Should additional data become available in the future, these data should be reviewed by MGI, and the conclusions and recommendations presented herein modified accordingly.

5. Where quantitative laboratory analyses have been conducted by an outside certified laboratory, MGI has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these tests.

6. If the conclusions and recommendations contained in this report are based, in part, upon various types of chemical data then the conclusions and recommendations are contingent upon the validity of such data. These data have been reviewed and interpretations made in the report. It should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by MGI and the conclusions and recommendations presented herein modified accordingly.

7. Chemical analyses were performed for specific parameters during the course of this investigation, as described in the text. However, it should be noted that testing for all known chemical constituents was not performed. The conclusions and recommendations contained in this report are based only upon the chemical constituents for which testing was accomplished.

The following qualifications apply to the undersigned's opinion:

The activities described and opinions included herein are based on information gathered during this exploratory site investigation, which was limited in scope in adherence to the terms of our agreement. The professional opinion provided herein is based on the information described in this report.

The information contained herein was prepared for the use of ConnDOT solely in conjunction with the task descriptions for this assignment. The conclusions and recommendations set forth in this report are based on site conditions at the time of the investigation. Future studies and findings could change the contents of this report. The professional opinions presented in this report have been developed by using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental engineering consultants practicing in this or similar localities. No other warranty, expressed or implied, is made as to the professional opinions included in this report.

Prepared by:	Approved by:	Reviewed by:
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Logical Env. Solutions	Program Manager	Project Engineer

TABLES

TABLE 1(a) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-1 0.6-1.2m 2'-4'	GP-2 0.6-1.2m 2'-4'	GP-3 0.6-1.2m 2'-4'	GP-4 0-0.6m 0'-2'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	76	68	150	140	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Anthracene	BDL	BDL	BDL	0.24	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	BDL	0.28	0.5	0.82	1 ppm	1/7.8 ppm
Benzo(a)pyrene	BDL	0.24	0.48	0.85	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BDL	0.3	0.56	0.92	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BDL	0.19	0.33	0.6	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BDL	BDL	BDL	0.32	42 ppm	1,000/2,500 ppm
Chrysene	BDL	0.31	0.51	0.88	1 ppm	84/780 ppm
Fluoranthene	BDL	0.66	1.1	2.2	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	0.27	1 ppm	1/7.8 ppm
Phenanthrene	0.34	0.39	0.41	1.2	40 ppm	1,000/2,500 ppm
Pyrene	BDL	0.36	0.71	1.5	40 ppm	1,000/2,500 ppm
Total PAHs	0.34	2.73	4.6	9.8		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Barium	130	63.5	113	82.7		4,700/140,000 ppm
Cadmium	BDL	3.65	0.727	BDL		34/1,000 ppm
Chromium	15.1	11.6	13.4	15.0		100/100 ppm
Lead	277	155	239	154		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	BDL	BDL	0.046	10.0 ppm	
Chromium	0.0052	BDL	BDL	BDL	0.5 ppm	
Lead	0.0143	0.0255	0.136	0.024	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(b) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-5 0.6-1.2m 2'-4'	GP-6 0-0.6m 0'-2'	GP-7 1.2-2.4m 4'-8'	GP-8 0.6-1.2m 2'-4'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	440	100	160	200	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Benzo(a)anthracene	0.63	BDL	0.34	0.45	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.67	BDL	BDL	0.44	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.69	BDL	0.33	0.48	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.53	BDL	BDL	0.29	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	0.39	BDL	BDL	BDL	42 ppm	1,000/2,500 ppm
Chrysene	0.63	BDL	0.35	0.48	1 ppm	84/780 ppm
Fluoranthene	1.3	0.51	0.73	0.94	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.31	BDL	BDL	BDL	1 ppm	1/7.8 ppm
Phenanthrene	0.6	BDL	0.44	0.42	40 ppm	1,000/2,500 ppm
Pyrene	1.1	0.44	0.61	0.84	40 ppm	1,000/2,500 ppm
Total PAHs	6.85	0.95	2.8	4.34		
PCBs – EPA Method 8082 (ppm)	BDL	0.57	0.12	0.13		1/10 ppm
Total RCRA 8 Metals (ppm)						
Barium	88.6	65.9	60.3	60.6		4,700/140,000 ppm
Chromium	23.4	12.0	13.2	21.0		100/100 ppm
Lead	292	102	50.8	300		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	0.0397	BDL	0.0639	10.0 ppm	
Lead	BDL	0.019	BDL	0.103	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(c) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-9 0.6-1.2m 2'-4'	GP-10 1.2-2.4m 4'-8'	GP-11 0.6-1.2m 2'-4'	GP-12 1.2-2.4m 4'-8'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	390	***770***	260	480	2,500 ppm	**500**/2,500 ppm
VOCs - EPA Method 8260 (ppm)						
cis-1,2-Dichloroethene	BDL	BDL	BDL	0.99	14 ppm	500/1,000 ppm
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	BDL	0.33	BDL	1.5	84 ppm	1,000/2,500 ppm
Anthracene	0.25	0.69	BDL	0.6	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	***1.3***	***2.2***	***1.2***	***3.6***	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	***1.4***	***2.0***	***1.4***	***5.1***	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	***1.3***	***2.1***	***1.9***	***5.6***	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	0.79	***1.3***	***1.1***	***3.9***	**1 ppm**	8.4/78 ppm
Benzo(g,h,i)perylene	0.82	1.2	1.1	4.5	42 ppm	1,000/2,500 ppm
Chrysene	***1.4***	***2.5***	***1.8***	***5.4***	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	BDL	BDL	BDL	0.77	1 ppm	1/1 ppm
Fluoranthene	2.6	5.2	3.2	7.9	56 ppm	1,000/2,500 ppm
Fluorene	BDL	0.53	BDL	0.32	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.78	1.0	1.0	***4.2***	**1 ppm**	**1**/7.8 ppm
Naphthalene	BDL	BDL	BDL	0.29	56 ppm	1,000/2,500 ppm
Phenanthrene	1.2	1.6	1.6	4.3	40 ppm	1,000/2,500 ppm
Pyrene	2.7	5.0	2.9	8.0	40 ppm	1,000/2,500 ppm
Total PAHs	14.54	25.65	17.2	55.98		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	0.03	0.22		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	BDL	BDL	4.31		10/10 ppm
Barium	73.7	33.2	49.4	65.2		4,700/140,000 ppm
Chromium	14.5	13.2	7.95	12.9		100/100 ppm
Lead	365	137	7.58	146		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0393	0.046	0.0479	BDL	10.0 ppm	
Lead	0.0174	0.142	0.0227	0.0476	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(d) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-13 0.6-1.2m 2'-4'	GP-14 0.6-1.2m 2'-4'	GP-15 1.2-2.1m 4'-7'	GP-16 0-0.6m 0'-2'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	93	BDL	110	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	BDL	BDL	BDL	0.2	84 ppm	1,000/2,500 ppm
Benzo(a)anthracene	BDL	0.57	BDL	0.7	1 ppm	1/7.8 ppm
Benzo(a)pyrene	BDL	0.77	BDL	0.83	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BDL	0.81	BDL	0.97	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BDL	0.59	BDL	0.54	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BDL	0.46	BDL	0.79	42 ppm	1,000/2,500 ppm
Chrysene	BDL	0.71	BDL	0.8	1 ppm	84/780 ppm
Fluoranthene	BDL	0.96	BDL	1.2	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BDL	0.42	BDL	0.7	1 ppm	1/7.8 ppm
Phenanthrene	BDL	0.29	BDL	0.52	40 ppm	1,000/2,500 ppm
Pyrene	BDL	1.1	BDL	1.3	40 ppm	1,000/2,500 ppm
Total PAHs	BDL	6.68	BDL	8.55		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	3.55	BDL	6.22		10/10 ppm
Barium	38.9	39.3	30.4	49.0		4,700/140,000 ppm
Cadmium	0.743	0.783	0.856	0.993		34/1,000 ppm
Chromium	9.29	9.97	11.9	8.96		100/100 ppm
Lead	42.0	36.7	24.6	205		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	0.0412	0.0675	BDL	10.0 ppm	
Cadmium	BDL	BDL	0.0026	0.006	0.05 ppm	
Chromium	BDL	BDL	0.007	BDL	0.5 ppm	
Lead	0.0123	0.0448	0.013	0.0499	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(e) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-17 0.6-1.2m 2'-4'	GP-18 0.6-1.2m 2'-4'	GP-19 1.2-1.8m 4'-6'	GP-20 0-0.6m 0'-2'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	92	BDL	100	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	BDL	0.19	BDL	0.22	84 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.2	0.74	BDL	0.9	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.18	0.87	BDL	***1.1***	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	0.21	***1.1***	BDL	***1.3***	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	BDL	0.52	BDL	0.61	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BDL	0.74	BDL	0.93	42 ppm	1,000/2,500 ppm
Chrysene	0.2	0.85	BDL	1.0	1 ppm	84/780 ppm
Fluoranthene	0.31	1.5	BDL	1.5	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BDL	0.62	BDL	0.78	1 ppm	1/7.8 ppm
Phenanthrene	BDL	0.63	BDL	0.62	40 ppm	1,000/2,500 ppm
Pyrene	0.34	1.5	BDL	1.6	40 ppm	1,000/2,500 ppm
Total PAHs	1.44	9.26	BDL	10.56		
PCBs – EPA Method 8082 (ppm)	BDL	NA	NA	NA		1/10 ppm
Total RCRA 8 Metals (ppm)						
Barium	29.7	39.9	29.4	36.8		4,700/140,000 ppm
Chromium	8.53	31.5	10.1	8.65		100/100 ppm
Lead	32.0	74.6	4.46	66.3		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Lead	BDL	0.0112	BDL	BDL	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(f) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-21 0.6-1.2m 2'-4'	GP-22 0-0.6m 0'-2'	GP-23 0-0.6m 0'-2'	GP-24 0.6-1.2m 2'-4'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	***910***	190	110	45	2,500 ppm	**500**/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	0.85	0.7	BDL	BDL	84 ppm	1,000/2,500 ppm
Anthracene	0.37	0.29	BDL	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	***1.9***	***2.2***	0.44	BDL	**1 ppm**	1/7.8 ppm
Benzo(a)pyrene	***2.3***	***3.2***	0.53	BDL	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	***3.2***	***3.8***	0.6	0.22	**1 ppm**	1/7.8 ppm
Benzo(k)fluoranthene	***1.4***	***1.2***	0.36	BDL	**1 ppm**	8.4/78 ppm
Benzo(g,h,i)perylene	3.7	3.6	0.53	BDL	42 ppm	1,000/2,500 ppm
Chrysene	***1.9***	***2.2***	0.57	0.24	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	0.58	0.27	BDL	BDL	1 ppm	1/1 ppm
Fluoranthene	2.9	2.9	0.63	0.36	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	***3.0***	***2.7***	0.48	BDL	**1 ppm**	1/7.8 ppm
Phenanthrene	0.91	0.46	BDL	0.27	40 ppm	1,000/2,500 ppm
Pyrene	3.5	3.1	0.75	0.44	40 ppm	1,000/2,500 ppm
Total PAHs	26.51	26.62	4.89	1.53		
PCBs – EPA Method 8082 (ppm)	NA	NA	NA	NA		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	3.06	BDL	BDL		10/10 ppm
Barium	117	67.1	102	38.9		4,700/140,000 ppm
Cadmium	2.3	BDL	0.952	0.531		34/1,000 ppm
Chromium	52.1	59.9	12.3	6.1		100/100 ppm
Lead	***516***	122	***533***	85.9		**500**/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	BDL	0.0462	0.0136	10.0 ppm	
Chromium	BDL	0.009	BDL	BDL	0.5 ppm	
Lead	0.0123	0.025	0.054	BDL	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(g) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-25 0.6-1.2m 2'-4'	GP-26 1.2-2.4m 4'-8'	GP-27 0.6-1.2m 2'-4'	GP-28 1.2-2.4m 4'-8'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	BDL	130	BDL	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Benzo(a)anthracene	BDL	BDL	0.53	BDL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	BDL	BDL	0.62	BDL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BDL	BDL	0.77	BDL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BDL	BDL	0.45	BDL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BDL	BDL	0.53	BDL	42 ppm	1,000/2,500 ppm
Chrysene	BDL	BDL	0.72	BDL	1 ppm	84/780 ppm
Fluoranthene	BDL	BDL	0.92	BDL	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BDL	BDL	0.45	BDL	1 ppm	1/7.8 ppm
Phenanthrene	BDL	BDL	0.36	BDL	40 ppm	1,000/2,500 ppm
Pyrene	BDL	BDL	1.2	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	BDL	BDL	6.55	BDL		
PCBs – EPA Method 8082 (ppm)	NA	NA	NA	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Barium	28.9	27.8	102	21.6		4,700/140,000 ppm
Cadmium	0.508	0.541	1.27	BDL		34/1,000 ppm
Chromium	7.42	5.41	12.3	6.65		100/100 ppm
Lead	6.57	4.97	113	14.8		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0252	0.0172	0.0482	BDL	10.0 ppm	
Cadmium	BDL	BDL	BDL	0.0027	0.05 ppm	
Lead	BDL	BDL	0.0464	BDL	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(h) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-29 0-0.6m 0'-2'	GP-30 0-0.6m 0'-2'	GP-31 0-0.6m 0'-2'	GP-32 0-0.6m 0'-2'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	60	62	270	130	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Benzo(a)anthracene	0.43	0.49	0.26	0.39	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.4	0.48	BDL	0.44	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.52	0.64	0.35	0.7	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.27	0.31	BDL	0.32	1 ppm	8.4/78 ppm
Chrysene	0.39	0.46	0.29	0.56	1 ppm	84/780 ppm
Fluoranthene	0.62	0.74	0.47	0.92	56 ppm	1,000/2,500 ppm
Phenanthrene	0.23	0.26	0.26	0.52	40 ppm	1,000/2,500 ppm
Pyrene	0.78	0.87	0.59	1.1	40 ppm	1,000/2,500 ppm
Total PAHs	3.64	4.25	2.22	4.95		
PCBs – EPA Method 8082 (ppm)	NA	NA	NA	NA		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	BDL	4.99	BDL		10/10 ppm
Barium	42.2	42.0	71.1	63.5		4,700/140,000 ppm
Cadmium	0.696	0.766	1.16	1.06		34/1,000 ppm
Chromium	7.57	7.97	12.7	9.53		100/100 ppm
Lead	27.9	39.3	166	264		500/1,000 ppm
Mercury	BDL	BDL	BDL	0.187		20/610 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0143	0.0357	0.0195	0.023	10.0 ppm	
Lead	BDL	0.0307	0.0147	0.0102	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(i) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-33 0-0.6m 0'-2'	GP-34 0-0.6m 0'-2'	GP-35 0.6-1.2m 2'-4'	GP-36 0.6-1.2m 2'-4'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	130	BDL	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Benzo(a)anthracene	0.34	BDL	BDL	BDL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.35	BDL	BDL	BDL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.45	BDL	BDL	BDL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.29	BDL	BDL	BDL	1 ppm	1,000/2,500 ppm
Chrysene	0.44	BDL	BDL	BDL	1 ppm	1/1 ppm
Fluoranthene	0.72	BDL	BDL	BDL	56 ppm	1/7.8 ppm
Phenanthrene	0.38	BDL	BDL	BDL	40 ppm	1,000/2,500 ppm
Pyrene	0.88	BDL	BDL	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	3.85	BDL	BDL	BDL		
PCBs – EPA Method 8082 (ppm)	NA	NA	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Barium	62.7	55.1	17.0	19.2		4,700/140,000 ppm
Cadmium	1.23	0.947	BDL	BDL		34/1,000 ppm
Chromium	11.8	11.2	5.97	6.96		100/100 ppm
Lead	177	188	4.77	3.77		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0267	0.0516	BDL	BDL	10.0 ppm	
Lead	0.0093	0.0401	BDL	BDL	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(j) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-37 1.2-1.8m 4'-6'	GP-38 0.6-1.2m 2'-4'	GP-39 1.2-2.4m 4'-8'	GP-40 0.6-1.2m 2'-4'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	290	BDL	130	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	BDL	0.35	BDL	BDL	84 ppm	1,000/2,500 ppm
Anthracene	BDL	0.37	BDL	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	BDL	***1.1***	0.23	BDL	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	BDL	0.76	BDL	BDL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BDL	***1.4***	BDL	0.22	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	BDL	0.79	BDL	BDL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BDL	0.65	BDL	BDL	42 ppm	1,000/2,500 ppm
Chrysene	BDL	***2.0***	0.28	0.27	**1 ppm**	84/780 ppm
Fluoranthene	BDL	2.8	0.59	0.3	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BDL	0.53	BDL	BDL	1 ppm	1/7.8 ppm
1-Methylnaphthalene	BDL	0.53	BDL	BDL	No Standard	No Standard
2-Methylnaphthalene	BDL	0.68	BDL	BDL	9.8 ppm	474/2,500 ppm
Naphthalene	BDL	0.56	BDL	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	BDL	2.2	0.75	BDL	40 ppm	1,000/2,500 ppm
Pyrene	BDL	2.8	0.66	0.43	40 ppm	1,000/2,500 ppm
Total PAHs	BDL	17.52	2.51	1.22		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	NA	NA		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	***10.4***	BDL	BDL		**10/10 ppm**
Barium	22.2	43.3	20.1	79.9		4,700/140,000 ppm
Cadmium	BDL	BDL	0.687	1.07		34/1,000 ppm
Chromium	8.18	9.43	8.54	9.91		100/100 ppm
Lead	3.62	21.4	10.8	175		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	BDL	0.0179	0.0423	10.0 ppm	
Lead	BDL	BDL	BDL	0.0384	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(k) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-41 0.6-1.2m 2'-4'	GP-42 0-0.6m 0'-2'	GP-43 0-0.6m 0'-2'	GP-44 0-0.6m 0'-2'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	87	83	100	BDL	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Anthracene	0.51	BDL	BDL	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	***1.1***	0.3	0.33	BDL	**1 ppm**	1/7.8 ppm
Benzo(a)pyrene	***1.2***	0.3	BDL	BDL	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	***1.5***	0.44	0.46	BDL	**1 ppm**	1/7.8 ppm
Benzo(k)fluoranthene	0.41	BDL	BDL	BDL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	1.1	BDL	BDL	BDL	42 ppm	1,000/2,500 ppm
Chrysene	***1.2***	0.36	0.37	BDL	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	0.36	BDL	BDL	BDL	1 ppm	1/1 ppm
Fluoranthene	2.7	0.52	0.63	BDL	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.95	BDL	BDL	BDL	1 ppm	1/7.8 ppm
Phenanthrene	2.3	BDL	BDL	BDL	40 ppm	1,000/2,500 ppm
Pyrene	2.7	0.67	0.83	0.33	40 ppm	1,000/2,500 ppm
Total PAHs	16.03	2.59	2.62	0.33		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	3.55	BDL	BDL	BDL		10/10 ppm
Barium	93.4	64.7	74.7	60.4		4,700/140,000 ppm
Cadmium	BDL	0.96	1.55	0.891		34/1,000 ppm
Chromium	20.8	9.47	18.5	7.86		100/100 ppm
Lead	148	163	238	86.8		500/1,000 ppm
Mercury	0.257	BDL	BDL	BDL		20/610 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	0.0426	0.0542	0.0483	10.0 ppm	
Lead	0.018	0.0439	0.018	BDL	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(l) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-45 0-0.6m 0'-2'	GP-46 0-0.6m 0'-2'	GP-47 0.6-1.2m 2'-4'	GP-48 0.6-1.2m 2'-4'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	120	83	95	BDL	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Benzo(a)anthracene	BDL	BDL	0.44	BDL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	BDL	BDL	0.32	BDL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BDL	BDL	0.39	BDL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BDL	BDL	0.28	BDL	1 ppm	8.4/78 ppm
Chrysene	0.32	BDL	0.4	BDL	1 ppm	84/780 ppm
Fluoranthene	0.39	0.38	0.57	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	BDL	BDL	0.76	BDL	40 ppm	1,000/2,500 ppm
Pyrene	0.52	0.51	0.61	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	1.23	0.89	3.77	BDL		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	4.63	BDL	BDL	BDL		10/10 ppm
Barium	74.0	65.8	21.8	25.3		4,700/140,000 ppm
Cadmium	1.14	1.22	BDL	BDL		34/1,000 ppm
Chromium	9.7	11.5	13.7	10.3		100/100 ppm
Lead	90.9	129	18.3	57.3		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0475	0.0292	BDL	BDL	10.0 ppm	
Lead	BDL	0.0148	BDL	BDL	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(m) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-49 1.2-2.4m 4'-8'	GP-50 0.6-1.2m 2'-4'	GP-51 0-0.6m 0'-2'	GP-52 0.6-1.2m 2'-4'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	BDL	350	BDL	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Anthracene	BDL	BDL	0.38	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)pyrene	BDL	BDL	0.78	BDL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BDL	BDL	0.89	BDL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BDL	BDL	0.37	BDL	1 ppm	8.4/78 ppm
Chrysene	BDL	BDL	0.78	BDL	1 ppm	84/780 ppm
Fluoranthene	BDL	BDL	0.67	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	BDL	BDL	0.9	BDL	40 ppm	1,000/2,500 ppm
Pyrene	BDL	BDL	0.75	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	BDL	BDL	5.52	BDL		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	***132***	***13.4***	***24.4***		**10/10 ppm**
Barium	23.7	24.0	33.0	35.0		4,700/140,000 ppm
Chromium	15.4	2.32	3.78	5.83		100/100 ppm
Lead	8.82	6.06	11.8	5.08		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)	BDL	BDL	BDL	BDL		

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(n) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-53 1.2-1.8m 4'-6'	GP-54 1.2-2.4m 4'-8'	GP-55 1.2-2.4m 4'-8'	GP-56 0.6-1.2m 2'-4'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	110	BDL	BDL	79	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Benzo(a)anthracene	0.34	BDL	BDL	BDL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.25	BDL	BDL	BDL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.45	BDL	BDL	BDL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.24	BDL	BDL	BDL	1 ppm	8.4/78 ppm
Chrysene	0.45	BDL	BDL	BDL	1 ppm	84/780 ppm
Fluoranthene	0.82	BDL	BDL	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	0.65	BDL	BDL	BDL	40 ppm	1,000/2,500 ppm
Pyrene	0.74	BDL	BDL	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	3.94	BDL	BDL	BDL		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	***18.6***	***60.2***	***11.2***	BDL		**10/10 ppm**
Barium	37.5	53.4	39.3	16.2		4,700/140,000 ppm
Chromium	21.3	7.18	22.3	4.58		100/100 ppm
Lead	5.62	1.51	7.57	4.39		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	BDL	0.0585	BDL	10.0 ppm	
Lead	BDL	BDL	BDL	0.009	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(o) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-57 0.6-1.2m 2'-4'	GP-58 1.2-2.4m 4'-8'	GP-59 2.4-3.7m 8'-12'	GP-60 0.6-1.2m 2'-4'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	130	BDL	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Fluoranthene	0.3	BDL	BDL	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	0.3	BDL	BDL	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	0.6	BDL	BDL	BDL		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	BDL	5.12	3.41		10/10 ppm
Barium	24.3	21.9	55.6	42.8		4,700/140,000 ppm
Chromium	5.71	6.14	27.6	16.6		100/100 ppm
Lead	24.1	3.56	7.23	52.4		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Lead	BDL	BDL	BDL	0.0177	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(p) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-61 0.6-1.2m 2'-4'	GP-62 1.2-1.8m 4'-6'	GP-63 0-0.6m 0'-2'	GP-64 0.6-1.2m 2'-4'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	89	BDL	BDL	86	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Benzo(a)anthracene	0.3	BDL	BDL	0.35	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.29	BDL	BDL	0.35	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.36	BDL	BDL	0.48	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.25	BDL	BDL	0.31	1 ppm	8.4/78 ppm
Chrysene	0.4	BDL	BDL	0.45	1 ppm	84/780 ppm
Fluoranthene	0.57	BDL	BDL	0.55	56 ppm	1,000/2,500 ppm
Phenanthrene	0.28	BDL	BDL	0.26	40 ppm	1,000/2,500 ppm
Pyrene	0.53	BDL	BDL	0.49	40 ppm	1,000/2,500 ppm
Total PAHs	2.98	BDL	BDL	3.24		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	***13.0***	BDL	3.39	6.06		**10/10 ppm**
Barium	84.0	27.6	44.1	47.0		4,700/140,000 ppm
Chromium	24.6	12.9	20.6	21.8		100/100 ppm
Lead	187	11.0	19.2	120		500/1,000 ppm
Mercury	0.267	BDL	BDL	BDL		20/610 ppm
SPLP RCRA 8 Metals (ppm)	BDL	BDL	BDL	BDL		

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(q) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-65 0.6-1.2m 2'-4'	GP-66 0.6-1.2m 2'-4'	GP-66 1.2-2.4m 4'-8'	GP-68 0-0.6m 0'-2'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	BDL	BDL	260	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)						
Methyl Tertiary Butyl Ether	0.063	BDL	BDL	BDL	20 ppm	500/1,000 ppm
PAHs - EPA Method 8270 (ppm)						
Benzo(a)anthracene	BDL	BDL	BDL	0.53	1 ppm	1/7.8 ppm
Benzo(a)pyrene	BDL	BDL	BDL	0.52	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BDL	BDL	BDL	0.6	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BDL	BDL	BDL	0.37	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BDL	BDL	BDL	0.51	42 ppm	1,000/2,500 ppm
Chrysene	BDL	BDL	BDL	0.73	1 ppm	84/780 ppm
Fluoranthene	BDL	BDL	BDL	1.2	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	0.38	1 ppm	1/7.8 ppm
Phenanthrene	BDL	BDL	BDL	0.88	40 ppm	1,000/2,500 ppm
Pyrene	BDL	BDL	BDL	1.3	40 ppm	1,000/2,500 ppm
Total PAHs	BDL	BDL	BDL	7.02		
PCBs – EPA Method 8082 (ppm)	BDL	NA	NA	NA		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	5.91	4.89	BDL		10/10 ppm
Barium	34.2	36.7	89.4	76.2		4,700/140,000 ppm
Cadmium	BDL	BDL	BDL	3.48		34/1,000 ppm
Chromium	8.86	18.5	48.9	17.8		100/100 ppm
Lead	84.4	4.92	13.0	***1,360***		**500/1,000 ppm**
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	BDL	BDL	0.0246	10.0 ppm	
Lead	0.0133	BDL	BDL	***0.256***	**0.15 ppm**	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(r) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-69 0-0.6m 0'-2'	GP-70 0.6-1.2m 2'-4'	GP-71 0.6-1.2m 2'-4'	GP-72 1.2-1.8m 4'-6'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	BDL	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)	BDL	BDL	BDL	BDL		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	3.72	3.47	BDL	4.31		10/10 ppm
Barium	33.3	35.3	59.4	13.3		4,700/140,000 ppm
Chromium	10.6	11.8	30.0	5.56		100/100 ppm
Lead	30.4	45.5	3.37	BDL		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)	BDL	BDL	BDL	BDL		

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(s) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-73 0-0.6m 0'-2'	GP-74 0-0.6m 0'-2'	GP-75 0.6-1.2m 2'-4'	GP-76 0.6-1.2m 2'-4'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	140	BDL	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	0.51	BDL	BDL	BDL	84 ppm	1,000/2,500 ppm
Anthracene	0.41	BDL	BDL	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	***2.9***	BDL	BDL	BDL	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	***1.1***	BDL	BDL	BDL	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	***2.5***	BDL	BDL	BDL	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	***1.9***	BDL	BDL	BDL	**1 ppm**	8.4/78 ppm
Benzo(g,h,i)perylene	0.64	BDL	BDL	BDL	42 ppm	1,000/2,500 ppm
Chrysene	***3.1***	BDL	BDL	BDL	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	***1.1***	BDL	BDL	BDL	**1 ppm**	**1/1 ppm**
Fluoranthene	6.3	BDL	BDL	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	0.97	BDL	BDL	BDL	40 ppm	1,000/2,500 ppm
Pyrene	5.5	BDL	BDL	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	26.93	BDL	BDL	BDL		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	4.03	3.81	3.47	4.56		10/10 ppm
Barium	32.7	62.5	29.7	22.9		4,700/140,000 ppm
Chromium	14.1	21.9	13.7	15.8		100/100 ppm
Lead	23.7	50.3	11.3	3.53		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Lead	BDL	0.0075	BDL	BDL	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(t) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-77 0-0.6m 0'-2'	GP-78 0-0.6m 0'-2'	GP-79 0-0.6m 0'-2'	GP-80 0-0.6m 0'-2'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	BDL	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Fluoranthene	BDL	BDL	BDL	0.25	56 ppm	1,000/2,500 ppm
Phenanthrene	BDL	BDL	BDL	0.21	40 ppm	1,000/2,500 ppm
Pyrene	BDL	BDL	BDL	0.3	40 ppm	1,000/2,500 ppm
Total PAHs	BDL	BDL	BDL	0.76		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	3.27	4.08	3.38		10/10 ppm
Barium	31.2	30.6	34.5	45.5		4,700/140,000 ppm
Chromium	15.4	14.5	18.8	28.1		100/100 ppm
Lead	11.9	6.54	14.7	62.7		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)	BDL	BDL	BDL	BDL		

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1(u) - Results of Geoprobe Boring Soil Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Boring I.D.: Sample Depth:	GP-81 0-0.6m 0'-2'	GP-82 0-0.6m 0'-2'	GP-83 0.6-1.2m 2'-4'	GP-84 0-0.6m 0'-2'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	60	78	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Benzo(a)anthracene	0.46	0.47	BDL	BDL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.4	0.44	BDL	BDL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.43	0.44	BDL	BDL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.3	0.28	BDL	BDL	1 ppm	8.4/78 ppm
Chrysene	0.55	0.59	BDL	BDL	1 ppm	84/780 ppm
Fluoranthene	0.97	0.8	BDL	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	0.77	0.51	BDL	BDL	40 ppm	1,000/2,500 ppm
Pyrene	0.86	0.87	BDL	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	4.74	4.4	BDL	BDL		
PCBs – EPA Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	5.5	3.89	BDL		10/10 ppm
Barium	53.1	51.2	30.5	30.2		4,700/140,000 ppm
Chromium	21.8	24.1	14.4	10.6		100/100 ppm
Lead	15.5	22.0	9.39	10.5		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)	BDL	BDL	BDL	BDL		

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 2(a) - Results of Sediment Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Sample I.D.: Sample Depth:	B-13-1 0.3-0.9m 1'-3'	B-13-2 1.5-2.1m 5'-7'	B-13-3 3-3.7m 10'-12'	B-13-4 4.6-5.2m 15-17'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	120	350	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - Method 8270 (ppm)	BDL	BDL	BDL	BDL		
Pesticides – Method 8081 (ppm)	BDL	BDL	BDL	BDL		
PCBs – Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Herbicides – Method 8151 (ppm)	BDL	BDL	BDL	BDL		
Total Cyanide (ppm)	BDL	BDL	BDL	BDL		1,400/41.000 ppm
Total Sulfide (ppm)	32.9	63.0	76.8	119		
Total RCRA 8 Metals (ppm)						
Barium	23.4	22.7	23.0	22.4		4,700/140,000 ppm
Chromium	34.6	15.8	16.5	14.2		100/100 ppm
Lead	10.8	3.11	BDL	BDL		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0362	0.0323	0.0329	0.0228	10.0 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 2(b) - Results of Sediment Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Sample I.D.: Sample Depth:	B-15-1 0.3-0.9m 1'-3'	B-15-2 1.5-2.1m 5'-7'	B-15-3 3-3.7m 10'-12'	B-15-4 4.6-5.2m 15-17'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	150	BDL	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - Method 8270 (ppm)	BDL	BDL	BDL	BDL		
Pesticides – Method 8081 (ppm)	BDL	BDL	BDL	BDL		
PCBs – Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Herbicides – Method 8151 (ppm)	BDL	BDL	BDL	BDL		
Total Cyanide (ppm)	BDL	BDL	BDL	BDL		1,400/41.000 ppm
Total Sulfide (ppm)	19.9	80.0	67.4	106.0		
Total RCRA 8 Metals (ppm)						
Barium	21.0	16.8	21.2	26.7		4,700/140,000 ppm
Cadmium	1.86	BDL	BDL	BDL		34/1,000 ppm
Chromium	31.0	12.0	13.7	17.5		100/100 ppm
Lead	109	BDL	BDL	BDL		500/1,000 ppm
Mercury	***365***	BDL	BDL	BDL		**20**/610 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0127	0.0174	0.023	0.0119	10.0 ppm	
Lead	0.0188	BDL	BDL	BDL	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 2(c) - Results of Sediment Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Sample I.D.: Sample Depth:	B-16-1 0.3-0.9m 1'-3'	B-16-2 1.5-2.1m 5'-7'	B-16-3 3-3.7m 10'-12'	B-16-4 4.6-5.2m 15-17'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	120	290	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - Method 8270 (ppm)						
Benzo(a)anthracene	0.29	BDL	BDL	BDL	1 ppm	1/7.8 ppm
Chrysene	0.31	BDL	BDL	BDL	1 ppm	84/780 ppm
Fluoranthene	0.37	0.36	BDL	BDL	56 ppm	1,000/2,500 ppm
Pyrene	0.53	0.62	BDL	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	1.5	0.98	BDL	BDL		
Pesticides – Method 8081 (ppm)	BDL	BDL	BDL	BDL		
PCBs – Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Herbicides – Method 8151 (ppm)	BDL	BDL	BDL	BDL		
Total Cyanide (ppm)	BDL	BDL	BDL	BDL		1,400/41.000 ppm
Total Sulfide (ppm)	90.4	56.4	BDL	103		
Total RCRA 8 Metals (ppm)						
Barium	18.2	21.2	8.83	20.4		4,700/140,000 ppm
Chromium	32.6	78.1	4.13	12.8		100/100 ppm
Lead	41.1	377	***29,000***	***34,600***		**500/1,000 ppm**
SPLP RCRA 8 Metals (ppm)						
Barium	0.0143	0.0238	0.0275	0.019	10.0 ppm	
Lead	BDL	BDL	***1.06***	0.0813	**0.15 ppm**	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 2(d) - Results of Sediment Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Sample I.D.: Sample Depth:	B-18-1 0.3-0.9m 1'-3'	B-18-2 1.5-2.1m 5'-7'	B-18-3 3-3.7m 10'-12'	B-18-4 4.6-5.2m 15-17'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	220	BDL	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Benzo(a)anthracene	0.33	BDL	BDL	BDL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.29	BDL	BDL	BDL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.29	BDL	BDL	BDL	1 ppm	1/7.8 ppm
Chrysene	0.37	BDL	BDL	BDL	1 ppm	84/780 ppm
Fluoranthene	0.39	BDL	BDL	BDL	56 ppm	1,000/2,500 ppm
Pyrene	0.73	BDL	BDL	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	2.4	BDL	BDL	BDL		
Pesticides – Method 8081 (ppm)	BDL	BDL	BDL	BDL		
PCBs – Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Herbicides – Method 8151 (ppm)	BDL	BDL	BDL	BDL		
Total Cyanide (ppm)	BDL	BDL	BDL	BDL		1,400/41.000 ppm
Total Sulfide (ppm)	95.4	86.6	62.6	106.4		
Total RCRA 8 Metals (ppm)						
Barium	16.4	69.9	16.0	30.9		4,700/140,000 ppm
Chromium	14.8	17.5	21.3	19.7		100/100 ppm
Lead	30.5	17.3	16.4	5.53		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0156	0.0218	0.0144	0.0304	10.0 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 2(e) - Results of Sediment Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Sample I.D.: Sample Depth:	B-19-1 0.3-0.9m 1'-3'	B-19-2 1.5-2.1m 5'-7'	B-19-3 3-3.7m 10'-12'	B-19-4 4.6-5.2m 15-17'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	BDL	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)	BDL	BDL	BDL	BDL		
Pesticides – Method 8081 (ppm)	BDL	BDL	BDL	BDL		
PCBs – Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Herbicides – Method 8151 (ppm)	BDL	BDL	BDL	BDL		
Total Cyanide (ppm)	BDL	BDL	BDL	BDL		1,400/41.000 ppm
Total Sulfide (ppm)	BDL	69.9	37.1	BDL		
Total RCRA 8 Metals (ppm)						
Barium	8.83	10.8	8.05	7.34		4,700/140,000 ppm
Chromium	17.2	7.92	3.56	2.92		100/100 ppm
Lead	4.05	BDL	BDL	BDL		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	0.038	0.036	BDL	10.0 ppm	
Chromium	0.0053	BDL	BDL	BDL	0.5 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 2(f) - Results of Sediment Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Sample I.D.: Sample Depth:	B-21-1 0.3-0.9m 1'-3'	B-21-2 1.5-2.1m 5'-7'	B-21-3 3-3.7m 10'-12'	B-21-4 4.6-5.2m 15-17'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	BDL	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)	BDL	BDL	BDL	BDL		
Pesticides – Method 8081 (ppm)	BDL	BDL	BDL	BDL		
PCBs – Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Herbicides – Method 8151 (ppm)	BDL	BDL	BDL	BDL		
Total Cyanide (ppm)	BDL	BDL	BDL	BDL		1,400/41.000 ppm
Total Sulfide (ppm)	12.0	22.0	BDL	BDL		
Total RCRA 8 Metals (ppm)						
Barium	11.8	7.62	8.2	7.24		4,700/140,000 ppm
Chromium	10.1	5.15	5.23	2.35		100/100 ppm
Lead	3.86	2.52	BDL	BDL		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0311	0.0234	0.029	0.0256	10.0 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 2(g) - Results of Sediment Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Sample I.D.: Sample Depth:	B-22-1 0.3-0.9m 1'-3'	B-22-2 1.5-2.1m 5'-7'	B-22-3 3-3.7m 10'-12'	B-22-4 4.6-5.2m 15-17'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	BDL	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)	BDL	BDL	BDL	BDL		
Pesticides – Method 8081 (ppm)	BDL	BDL	BDL	BDL		
PCBs – Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Herbicides – Method 8151 (ppm)	BDL	BDL	BDL	BDL		
Total Cyanide (ppm)	BDL	BDL	BDL	BDL		1,400/41.000 ppm
Total Sulfide (ppm)	BDL	BDL	17.0	15.2		
Total RCRA 8 Metals (ppm)						
Barium	9.9	5.48	5.44	8.81		4,700/140,000 ppm
Chromium	23.3	2.64	3.32	5.68		100/100 ppm
Lead	12.2	2.64	BDL	BDL		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0132	0.0281	0.0215	0.01	10.0 ppm	
Chromium	0.0066	BDL	BDL	BDL	0.5 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 2(h) - Results of Sediment Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Sample I.D.: Sample Depth:	B-24-1 0.3-0.9m 1'-3'	B-24-2 1.5-2.1m 5'-7'	B-24-3 3-3.7m 10'-12'	B-24-4 4.6-5.2m 15-17'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	BDL	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)	BDL	BDL	BDL	BDL		
Pesticides – Method 8081 (ppm)	BDL	BDL	BDL	BDL		
PCBs – Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Herbicides – Method 8151 (ppm)	BDL	BDL	BDL	BDL		
Total Cyanide (ppm)	BDL	BDL	BDL	BDL		1,400/41.000 ppm
Total Sulfide (ppm)	28.6	67.5	98.2	16.2		
Total RCRA 8 Metals (ppm)						
Barium	7.21	9.2	6.88	6.08		4,700/140,000 ppm
Chromium	5.91	5.14	4.71	4.37		100/100 ppm
Lead	18.4	11.1	BDL	BDL		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	0.034	0.0181	0.0158	10.0 ppm	
Lead	BDL	0.0082	BDL	BDL	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 2(i) - Results of Sediment Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Sample I.D.: Sample Depth:	B-25-1 0.3-0.9m 1'-3'	B-25-2 1.5-2.1m 5'-7'	B-25-3 3-3.7m 10'-12'	B-25-4 4.6-5.2m 15-17'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	***1,200***	BDL	BDL	BDL	2,500 ppm	**500**/2,500 ppm
VOCs - Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Benzo(a)anthracene	***1.4***	BDL	BDL	BDL	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	0.44	BDL	BDL	BDL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	***1.2***	BDL	BDL	BDL	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	0.48	BDL	BDL	BDL	1 ppm	8.4/78 ppm
Chrysene	***1.4***	BDL	BDL	BDL	**1 ppm**	84/780 ppm
Fluoranthene	2.6	BDL	BDL	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	1.0	BDL	BDL	BDL	40 ppm	1,000/2,500 ppm
Pyrene	2.6	BDL	BDL	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	11.12	BDL	BDL	BDL		
Pesticides – Method 8081 (ppm)	BDL	BDL	BDL	BDL		
PCBs – Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Herbicides – Method 8151 (ppm)	BDL	BDL	BDL	BDL		
Total Cyanide (ppm)	BDL	BDL	BDL	BDL		1,400/41.000 ppm
Total Sulfide (ppm)	254	171	95	227		
Total RCRA 8 Metals (ppm)						
Barium	49.3	11.5	19.8	37.0		4,700/140,000 ppm
Cadmium	2.31	BDL	BDL	BDL		34/1,000 ppm
Chromium	***214***	10.3	14.8	6.81		**100/100 ppm**
Lead	198	BDL	BDL	BDL		500/1,000 ppm
Mercury	0.406	BDL	BDL	BDL		20/610 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.01	BDL	0.014	0.007	10.0 ppm	
Chromium	0.008	BDL	BDL	BDL	0.5 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 2(j) - Results of Sediment Sample Analyses
Reconstruction of the Moses Wheeler Bridge - Stratford & Milford, Connecticut

Sample I.D.: Sample Depth:	B-27-1 0.3-0.9m 1'-3'	B-27-2 1.5-2.1m 5'-7'	B-27-3 3-3.7m 10'-12'	B-27-4 4.6-5.2m 15-17'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	150	100	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthene	1.3	1.2	BDL	BDL	84 ppm	1,000/2,500 ppm
Anthracene	2.8	0.92	BDL	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.86	0.73	BDL	BDL	1 ppm	1/7.8 ppm
Chrysene	0.64	0.42	BDL	BDL	1 ppm	84/780 ppm
Fluoranthene	3.3	2.8	0.3	BDL	56 ppm	1,000/2,500 ppm
Fluorene	1.8	1.4	BDL	BDL	56 ppm	1,000/2,500 ppm
Naphthalene	0.3	BDL	BDL	BDL	56 ppm	1,000/2,500 ppm
1-Methylnaphthalene	0.52	0.44	BDL	BDL	No Standard	No Standard
2-Methylnaphthalene	0.43	0.38	BDL	BDL	9.8 ppm	474/2,500 ppm
Phenanthrene	6.9	5.4	0.7	BDL	40 ppm	1,000/2,500 ppm
Pyrene	2.2	1.8	0.23	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	21.05	15.49	1.23	BDL		
Pesticides – Method 8081 (ppm)	BDL	BDL	BDL	BDL		
PCBs – Method 8082 (ppm)	BDL	BDL	BDL	BDL		1/10 ppm
Herbicides – Method 8151 (ppm)	BDL	BDL	BDL	BDL		
Total Cyanide (ppm)	BDL	BDL	BDL	BDL		1,400/41.000 ppm
Total Sulfide (ppm)	75.1	53.2	29.9	33.8		
Total RCRA 8 Metals (ppm)						
Barium	27.9	11.5	6.83	13.2		4,700/140,000 ppm
Cadmium	1.31	BDL	BDL	BDL		34/1,000 ppm
Chromium	***129***	6.56	2.53	8.29		**100/100 ppm**
Lead	118	BDL	BDL	BDL		500/1,000 ppm
Mercury	1.63	BDL	BDL	BDL		20/610 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0318	0.0257	0.0229	0.017	10.0 ppm	
Chromium	0.0165	BDL	BDL	BDL	0.5 ppm	
Lead	0.0116	BDL	BDL	BDL	0.15 ppm	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 3(a) - Results of Groundwater Grab Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Sample I.D.:	GP-5 GW	GP-12 GW	GP-25 GW	GP-40 GW	CTDEP Surface Water Protection Criteria	CTDEP Volatilization Criteria Residential/Commercial & Industrial
TPH - EPA Method 418.1 (ppm)	BDL	BDL	BDL	BDL	None Established	Not Applicable
VOCs - EPA Method 8260 (ppb)						
1,1-Dichloroethane	16	150	BDL	BDL	No Standard	34,600/50,000 ppb
1,1-Dichloroethene	***110***	***150***	BDL	BDL	**96 ppb**	**1/6 ppb**
cis-Dichloroethene	BDL	180	BDL	BDL	No Standard	No Standard
Methyl Tertiary Butyl Ether	BDL	BDL	710	BDL	No Standard	50,000/50,000 ppb
1,1,1-Trichloroethane	67	36	BDL	BDL	62,000 ppb	20,400/50,000 ppb
Trichloroethene	BDL	14	BDL	BDL	2,340 ppb	219/540 ppb
Vinyl Chloride	BDL	***38***	BDL	BDL	15,750 ppb	**2/2 ppb**
PAHs - EPA Method 8270 (ppb)	BDL	BDL	BDL	BDL		
PCBs - EPA Method 8080 (ppb)	BDL	BDL	NA	NA		
Total RCRA 8 Metals - ppm						Not Applicable
Arsenic	BDL	***0.0445***	***0.0155***	BDL	**0.004 ppm**	
Barium	0.0492	0.0783	0.149	0.0354	None Established	
Chromium	BDL	0.0086	***0.276***	BDL	**0.011 ppm**	
Lead	BDL	BDL	***0.0166***	BDL	**0.013 ppm**	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 3(b) - Results of Groundwater Grab Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Sample I.D.:	GP-54 GW	GP-65 GW	CTDEP Surface Water Protection Criteria	CTDEP Volatilization Criteria Residential/Commercial & Industrial
TPH - EPA Method 418.1 (ppm)	BDL	BDL	None Established	Not Applicable
VOCs - EPA Method 8260 (ppb)				
Methyl Tertiary Butyl Ether	BDL	9.9	No Standard	50,000/50,000 ppb
PAHs - EPA Method 8270 (ppb)	BDL	BDL		
PCBs - EPA Method 8080 (ppb)	NA	NA		
Total RCRA 8 Metals - ppm				Not Applicable
Arsenic	BDL	***0.0138***	**0.004 ppm**	
Barium	BDL	0.266	None Established	
Cadmium	0.0017	BDL	0.006 ppm	
Chromium	BDL	***0.0303***	**0.011 ppm**	
Lead	BDL	***0.0559***	**0.013 ppm**	

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

NA – Not Analyzed for this procedure

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 4 - Results of Surface Water Sample Analyses
Reconstruction of the Moses Wheeler Bridge
Stratford & Milford, Connecticut

Sample I.D.:	SW-1	SW-2	CTDEP Surface Water Protection Criteria	CTDEP Volatilization Criteria Residential/Commercial & Industrial
TPH - EPA Method 418.1 (ppm)	BDL	BDL	None Established	Not Applicable
VOCs - EPA Method 8260 (ppb)	BDL	BDL		
PAHs - EPA Method 8270 (ppb)	BDL	BDL		
PCBs - EPA Method 8080 (ppb)	BDL	BDL		
Total RCRA 8 Metals – ppm Barium	0.0065	BDL	No Standard	Not Applicable

BDL – Below Detectable Limits (see laboratory reports for compound specific detection limits)

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

APPENDIX A
Boring Logs

Date Started: 10/8/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-1
Date Finished: 10/8/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine SAND & SILT, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to coarse SAND, trace Silt & fine to coarse Gravel	PID = 0.1 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Dark-Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt, Glass (FILL)	PID = 0.2 ppm
1.2	4'		
1.5	5'		
1.8	6'	Gray to Dark-Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	Macro Core Sample 1.2 - 2.4m (4' - 8'):
2.1	7'		PID = 0 ppm
2.4	8'	Gray fine to coarse SAND, little fine to coarse Gravel, trace Cobble & Silt	
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
3	10'		PID = 0 ppm
3.4	11'	Refusal at 2.74m (9') on Gray SCHIST	
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/8/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-2
Date Finished: 10/8/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine SAND & SILT, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to coarse SAND, trace Silt & fine to coarse Gravel	PID = 0.1 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Dark-Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt, Wood, Glass (FILL)	PID = 0.3 ppm
1.2	4'		
1.5	5'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'	Gray to Dark-Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	PID = 0 ppm
2.1	7'		
2.4	8'	Gray fine to coarse SAND, little fine to coarse Gravel, trace Cobble & Silt	
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
3	10'		PID = 0 ppm
3.4	11'	Refusal at 2.74m (9') on Gray SCHIST	
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/8/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-3
Date Finished: 10/8/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine SAND & SILT, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to coarse SAND, trace Silt & fine to coarse Gravel	PID = 0.1 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Dark-Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt, Metal, Wood, Glass, Plastic (FILL)	PID = 0.4 ppm
1.2	4'		
1.5	5'		
1.8	6'	Gray to Dark-Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	Macro Core Sample 1.2 - 2.4m (4' - 8'):
2.1	7'		PID = 0 ppm
2.4	8'	Gray fine to coarse SAND, little fine to coarse Gravel, trace Cobble & Silt	
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
3	10'		PID = 0 ppm
3.4	11'	Refusal at 2.74m (9') on Gray SCHIST	
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/8/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-4
Date Finished: 10/8/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Brown fine SAND, little Silt, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 1.7 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.1 ppm
1.2	4'	Dark-Brown to Black fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble	
1.5	5'		
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
2.1	7'		PID = 0.5 ppm
2.4	8'		
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
3	10'		PID = 0 ppm
3.4	11'	Refusal at 2.74m (9')	
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/8/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-5
Date Finished: 10/8/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Brown fine SAND, little Silt, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 2.0 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 2.5 ppm
1.2	4'	Dark-Brown to Black fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble	
1.5	5'		
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
2.1	7'		PID = 2.3 ppm
2.4	8'		
2.74	9'	Groundwater at 2.74 m (9')	
3	10'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
3.4	11'	Refusal at 2.74m (9')	PID = 0 ppm
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/8/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-6
Date Finished: 10/8/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.5 ppm
0.3	1'		
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.2 ppm
0.9	3'		
1.2	4'	Gray-Brown fine SAND, little Silt, trace fine to coarse Gravel, Cobble & Shells	
1.5	5'		
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'): PID = 0.3 ppm
2.1	7'		
2.4	8'		
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'): PID = 0 ppm
3	10'		
3.4	11'	Refusal at 2.74m (9')	
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/8/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-7
Date Finished: 10/8/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.3 ppm
0.3	1'		
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.2 ppm
0.9	3'		
1.2	4'	Gray-Brown fine SAND, little Silt, trace fine to coarse Gravel, Cobble & Shells	
1.5	5'		
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'): PID = 2.3 ppm
2.1	7'		
2.4	8'		
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'): PID = 0 ppm
3	10'		
3.4	11'	Refusal at 2.74m (9')	
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/8/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-8
Date Finished: 10/8/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'		Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0.4 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.8 ppm
1.2	4'	Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble	
1.5	5'		
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
			PID = 0.1 ppm
2.1	7'		
2.4	8'		
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
3	10'		PID = 0 ppm
3.4	11'	Refusal at 2.74m (9')	
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/8/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-9
Date Finished: 10/8/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
			Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.5 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.1 ppm
1.2	4'	Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble	
1.5	5'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 0.2 ppm
2.1	7'		
2.4	8'		
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
3	10'		PID = 0 ppm
3.4	11'	Refusal at 2.74m (9')	
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/8/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-10
Date Finished: 10/8/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine SAND & SILT, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to medium SAND, trace fine to coarse Gravel & Silt	PID = 0.3 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.4 ppm
1.2	4'	Black SILT, trace fine Sand & Roots	
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 0.6 ppm
2.1	7'	Dark-Gray fine to medium SAND, little Silt	
		Groundwater at 2.3m (7.5')	
2.4	8'	Dark-Gray to Black SILT, little fine Sand, trace Clay & Organic Material	
2.74	9'		Macro Core Sample 2.4 - 2.6m (8' - 8.5'):
3	10'		PID = 0 ppm
		Refusal at 2.6m (8.5')	
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/8/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-11
Date Finished: 10/8/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine SAND & SILT, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to medium SAND, trace fine to coarse Gravel & Silt	PID = 0.2 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.7 ppm
1.2	4'	Black SILT, trace fine Sand & Roots	
1.5	5'		
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
			PID = 0.6 ppm
2.1	7'	Dark-Gray fine to medium SAND, little Silt	
		Groundwater at 2.3m (7.5')	
2.4	8'	Dark-Gray to Black SILT, little fine Sand, trace Clay & Organic Material	
2.74	9'		Macro Core Sample 2.4 - 2.6m (8' - 8.5'):
3	10'		PID = 0 ppm
		Refusal at 2.6m (8.5')	
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/8/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-12
Date Finished: 10/8/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
		Gray fine to coarse GRAVEL & Crushed ASPHALT	PID = 0 ppm
0.3	1'	Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	PID = 0.9 ppm
1.2	4'		
1.5	5'		
		Black SILT, trace fine Sand & Roots	Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 1.5 ppm
2.1	7'		
2.4	8'		
2.74	9'	Brown coarse SAND, little fine to coarse Gravel & Cobble	
			Macro Core Sample 2.4 - 3.7m (8' - 12'):
3	10'		PID = 0 ppm
3.4	11'		
		Groundwater at 3.5m (11.5')	
3.7	12'		
		End of Boring at 3.7m (12')	
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/7/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-13
Date Finished: 10/7/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Gray fine to coarse GRAVEL, little Asphalt	PID = 0 ppm
0.6	2'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.2 ppm
		Dark-Gray to Black SILT, trace fine Sand	
1.2	4'		
1.5	5'		
1.8	6'	Brown coarse SAND, little fine to coarse Gravel, trace Cobble	Macro Core Sample 1.2 - 2.4m (4' - 8'):
2.1	7'		PID = 0 ppm
2.4	8'		
2.74	9'		Macro Core Sample 2.4 - 2.6m (8' - 8.5'):
3	10'	Refusal at 2.6m (8.5') on Gray SCHIST	PID = 0 ppm
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/7/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-14
Date Finished: 10/7/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Gray fine to coarse GRAVEL	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	PID = 0 ppm
0.6	2'	Black SILT, trace fine Sand	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Brown SILT, trace fine Sand	PID = 0.3 ppm
1.2	4'	Weathered SCHIST	
1.5	5'		Macro Core Sample 1.2 - 1.5m (4' - 5'):
1.8	6'		PID = 0 ppm
2.1	7'	Refusal at 1.5m (5') on Gray SCHIST	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/7/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-15
Date Finished: 10/7/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Gray-Brown fine to medium GRAVEL, trace fine to coarse Sand	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	PID = 0 ppm
0.6	2'	Dark-Gray SILT, trace fine Sand	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Brown fine to coarse SAND, little Silt, trace fine to coarse Gravel	PID = 0.1 ppm
1.2	4'	Brown fine to coarse SAND, little Silt, trace fine to coarse Gravel	
1.5	5'	Orange-Brown fine SAND & SILT, trace fine Gravel	
1.8	6'	Gray-Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 1.2 - 2.1m (4' - 7'): PID = 0.1 ppm
2.1	7'		
2.4	8'		
2.74	9'	Refusal at 2.1m (7') on Gray SCHIST	
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/7/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-16
Date Finished: 10/7/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Gray-Brown fine to coarse SAND, trace fine to coarse Gravel, Cobble, Silt & Asphalt	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0 ppm
0.3	1'		
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0 ppm
0.9	3'	Brown fine to coarse SAND, little Silt, trace fine to coarse Gravel	
1.2	4'		
1.5	5'		Macro Core Sample 1.2 - 1.8m (4' - 6'): PID = 0 ppm
1.8	6'		
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/7/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-17
Date Finished: 10/7/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine SAND & SILT, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Gray-Brown fine to coarse SAND, little fine to coarse Gravel & Silt	PID = 0 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	PID = 0.1 ppm
1.2	4'	Brown SILT, trace fine Sand & Gravel	
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 0 ppm
2.1	7'	VOID	
2.4	8'	Black ASH & CINDERS, trace fine to coarse Gravel & Cobble	
2.74	9'		Macro Core Sample 2.4 - 2.6m (8' - 8.5'):
3	10'	Refusal at 2.6m (8.5') on Gray SCHIST	PID = 0 ppm
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/7/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-18
Date Finished: 10/7/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'		Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0 ppm
0.6	2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.1 ppm
1.2	4'		
1.5	5'		Macro Core Sample 1.2 - 1.5m (4' - 5'):
1.8	6'		PID = 0 ppm
2.1	7'	Refusal at 1.5m (5') on Gray SCHIST	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/7/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-19
Date Finished: 10/7/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Gray-Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	PID = 0 ppm
1.2	4'		
1.5	5'		
			Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 2.2 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/7/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-20
Date Finished: 10/7/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		Dark-Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Gray-Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	PID = 0 ppm
0.6	2'	CONCRETE	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	PID = 0 ppm
1.2	4'	Crushed COBBLES	
1.5	5'		Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/7/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-21
Date Finished: 10/7/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		Dark-Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0 ppm
0.3	1'		
		Tan to Gray fine to coarse SAND, trace fine Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.1 ppm
0.9	3'		
1.2	4'	Gray-Brown coarse SAND, little Shells, trace fine to coarse Gravel & Silt	
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'): PID = 0 ppm
1.8	6'		
2.1	7'	Orange-Brown SILT, trace fine Sand & Clay (Moist)	
2.4	8'		
			Macro Core Sample 2.4 - 2.6m (8' - 8.5'): PID = 0 ppm
2.74	9'		
3	10'	Refusal at 2.6m (8.5') on Gray SCHIST	
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/7/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-22
Date Finished: 10/7/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0 ppm
1.2	4'		
1.5	5'		
1.8	6'		Macro Core Sample 1.2 - 1.8m (4' - 6'): PID = 0 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/4/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-23
Date Finished: 10/4/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'	Dark-Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.9 ppm
0.6	2'	Tan fine to coarse SAND, trace fine to coarse Gravel & Cobble	Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.3 ppm
0.9	3'		
1.2	4'		
1.5	5'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 1.2 - 2.1m (4' - 7'): PID = 0.1 ppm
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'	Refusal at 2.1m (7') on Gray SCHIST	
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/4/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-24
Date Finished: 10/4/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0 ppm
0.3	1'		
0.6	2'	Tan fine to coarse SAND, trace fine to coarse Gravel & Cobble	Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.4 ppm
0.9	3'		
1.2	4'		
1.5	5'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 1.2 - 2.1m (4' - 7'): PID = 0.1 ppm
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'	Refusal at 2.1m (7') on Gray SCHIST	
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/4/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-25
Date Finished: 10/4/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.3 ppm
0.3	1'		
0.6	2'	Tan fine to coarse SAND, trace fine to coarse Gravel & Cobble	Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 1.4 ppm
0.9	3'		
1.2	4'		
1.5	5'		Macro Core Sample 1.2 - 2.4m (4' - 8'): PID = 1.3 ppm
1.8	6'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
2.1	7'		
2.4	8'	Groundwater at 2.6m (8.5')	
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'): PID = 0.1 ppm
3	10'		
3.4	11'	Refusal at 2.74m (9') on Gray SCHIST	
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/4/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-26
Date Finished: 10/4/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.1 ppm
		Dark-Brown SILT, little fine to coarse Gravel & Cobble	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
			PID = 0.2 ppm
0.9	3'	Orange-Brown fine SAND, little Silt, trace fine to coarse Gravel	
1.2	4'		
1.5	5'	Tan fine to coarse SAND, trace fine Gravel	
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 0.3 ppm
2.1	7'	Tan fine to coarse SAND, little fine to coarse Gravel & Cobble	
2.4	8'		
		Weathered SCHIST	
2.74	9'		Macro Core Sample 2.4 - 2.6m (8' - 8.5'):
3	10'		PID = 0 ppm
		Refusal at 2.6m (8.5') on Gray SCHIST	
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/4/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-27
Date Finished: 10/4/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		Dark-Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0.1 ppm
0.3	1'		
		Dark-Brown SILT, little fine to coarse Gravel & Cobble	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
			PID = 0.6 ppm
0.9	3'	Orange-Brown fine SAND, little Silt, trace fine to coarse Gravel	
1.2	4'		
		Tan fine to coarse SAND, trace fine Gravel	
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 0.2 ppm
		Tan fine to coarse SAND, little fine to coarse Gravel & Cobble	
2.1	7'		
2.4	8'		
		Weathered SCHIST	
2.74	9'		Macro Core Sample 2.4 - 2.6m (8' - 8.5'):
			PID = 0 ppm
3	10'		
		Refusal at 2.6m (8.5') on Gray SCHIST	
3.4	11'		
3.7	12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/7/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-28
Date Finished: 10/7/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
			Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Gray-Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	PID = 0 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0 ppm
1.2	4'	Brown SILT, trace fine Sand & Gravel	
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 0.2 ppm
2.1	7'		
2.4	8'	Groundwater at 2.4m (8')	
2.74	9'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	
			Macro Core Sample 2.4 - 3.7m (8' - 12'):
3	10'		PID = 0 ppm
3.4	11'		
3.7	12'	End of Boring at 3.7m (12')	

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/3/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-29
Date Finished: 10/3/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: E. Fuery

Depth m	Depth ft	Description	Comments
0.3	1'	Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.6 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.4 ppm
1.2	4'		
1.5	5'		
1.8	6'	End of Boring at 1.2m (4') - Manual Geoprobe	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/3/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-30
Date Finished: 10/3/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: E. Fuery

Depth m	Depth ft	Description	Comments
0.3	1'	Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.7 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.1 ppm
1.2	4'		
1.5	5'	End of Boring at 1.2m (4') - Manual Geoprobe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/3/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-31
Date Finished: 10/3/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: E. Fuery

Depth m	Depth ft	Description	Comments
0.3	1'	Brown fine SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.2 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0 ppm
1.2	4'		
1.5	5'	End of Boring at 1.2m (4') - Manual Geoprobe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/3/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-32
Date Finished: 10/3/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: E. Fuery

Depth m	Depth ft	Description	Comments
0.3	1'	Brown fine SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.3 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.1 ppm
1.2	4'		
1.5	5'		
1.8	6'	End of Boring at 1.2m (4') - Manual Geoprobe	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/3/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-33
Date Finished: 10/3/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: E. Fuery

Depth m	Depth ft	Description	Comments
0.3	1'	Brown fine SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.5 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.1 ppm
1.2	4'		
1.5	5'	End of Boring at 1.2m (4') - Manual Geoprobe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/3/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-34
Date Finished: 10/3/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: E. Fuery

Depth m	Depth ft	Description	Comments
0.3	1'	Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.2 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.1 ppm
1.2	4'		
1.5	5'	End of Boring at 1.2m (4') - Manual Geoprobe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-35
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Orange-Brown fine to medium SAND, little Organic Material	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.9 ppm
		Orange-Brown SILT, trace fine Sand & fine to coarse Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.6 ppm
		Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt & Cobble	
1.2	4'		
1.5	5'	Brown coarse SAND, little fine to coarse Gravel, trace Cobble	
			Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0.3 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-36
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Orange-Brown fine to medium SAND, little Organic Material	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.7 ppm
		Orange-Brown SILT, trace fine Sand & fine to coarse Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.9 ppm
		Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt & Cobble	
1.2	4'		
1.5	5'	Brown coarse SAND, little fine to coarse Gravel, trace Cobble	
			Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0.2 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-37
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Orange-Brown fine to medium SAND, little Organic Material	Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0.3 ppm
0.3	1'		
		Orange-Brown SILT, trace fine Sand & fine to coarse Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
			PID = 0.5 ppm
0.9	3'	Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt & Cobble	
1.2	4'		
1.5	5'	Brown coarse SAND, little fine to coarse Gravel, trace Cobble	
			Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0.7 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-38
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0.4 ppm
0.3	1'		
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
			PID = 0.8 ppm
0.9	3'	Black to Dark-Brown SILT, little fine Sand, trace fine to coarse Gravel & Cobble	
1.2	4'		
1.5	5'		Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0.1 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/4/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-39
Date Finished: 10/4/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
			Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Dark-Brown SILT, trace fine Sand & fine to coarse Gravel	PID = 0 ppm
0.6	2'		
		Dark-Gray to Black fine SAND, little Asphalt, trace Concrete & fine to coarse Gravel	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.2 ppm
1.2	4'	Brown fine SAND & SILT, trace fine to coarse Gravel (Creosote Odor)	
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 0.6 ppm
2.1	7'		
2.4	8'	Tan fine to coarse SAND, little fine to coarse Gravel & Cobble	
2.74	9'	Groundwater at 2.74m (9')	
			Macro Core Sample 2.4 - 3m (8' - 10'):
3	10'		PID = 0 ppm
3.4	11'		
3.7	12'	Refusal at 3m (10') on Gray SCHIST	

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/4/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-40
Date Finished: 10/4/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'	Dark-Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0 ppm
0.6	2'		
		Dark-Gray to Black fine SAND, little Asphalt, trace Concrete & fine to coarse Gravel	Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.9 ppm
0.9	3'		
1.2	4'	Brown fine SAND & SILT, trace fine to coarse Gravel (Creosote Odor)	
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 0.3 ppm
2.1	7'		
2.4	8'	Tan fine to coarse SAND, little fine to coarse Gravel & Cobble	
2.74	9'	Groundwater at 2.74m (9')	
			Macro Core Sample 2.4 - 3m (8' - 10'):
3	10'		PID = 0 ppm
3.4	11'		
3.7	12'	Refusal at 3m (10') on Gray SCHIST	

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/7/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-41
Date Finished: 10/7/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine SAND, trace Silt & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.1 ppm
1.2	4'		
1.5	5'	Brown fine SAND & SILT, trace fine to coarse Gravel	
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
2.1	7'		PID = 0 ppm
2.4	8'		
2.74	9'		
			Macro Core Sample 2.4 - 3m (8' - 10'):
3	10'		PID = 0 ppm
3.4	11'		
3.7	12'	Refusal at 3m (10') on Gray SCHIST	
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/3/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-42
Date Finished: 10/3/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: E. Fuery

Depth m	Depth ft	Description	Comments
0.3	1'	Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.1 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0 ppm
1.2	4'		
1.5	5'	End of Boring at 1.2m (4') - Manual Geoprobe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/3/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-43
Date Finished: 10/3/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: E. Fuery

Depth (m)	Depth (ft)	Description	Comments
0.3	1'	Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.8 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0 ppm
1.2	4'		
1.5	5'		
1.8	6'	End of Boring at 1.2m (4') - Manual Geoprobe	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/3/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-44
Date Finished: 10/3/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: E. Fuery

Depth m	Depth ft	Description	Comments
0.3	1'	Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 1.5 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0 ppm
1.2	4'		
1.5	5'		
1.8	6'	End of Boring at 1.2m (4') - Manual Geoprobe	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/3/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-45
Date Finished: 10/3/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: E. Fuery

Depth m	Depth ft	Description	Comments
0.3	1'	Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 1.4 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0 ppm
1.2	4'		
1.5	5'		
1.8	6'	End of Boring at 1.2m (4') - Manual Geoprobe	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/3/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-46
Date Finished: 10/3/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: E. Fuery

Depth (m)	Depth (ft)	Description	Comments
0.3	1'	Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 1.1 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.2 ppm
1.2	4'		
1.5	5'	End of Boring at 1.2m (4') - Manual Geoprobe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-47
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.4 ppm
		Tan fine to coarse SAND, trace fine Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.5 ppm
		Dark-Brown SILT, little to trace fine to coarse Gravel & Cobble, trace fine Sand & Clay	
1.2	4'		
1.5	5'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'	Gray-Brown fine to coarse SAND, trace Silt & fine to coarse Gravel	PID = 0.3 ppm
2.1	7'		
2.4	8'	Dark-Brown SILT, trace Clay & fine to coarse Gravel	
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
3	10'		PID = 0 ppm
3.4	11'	Refusal at 2.74m (9') on Gray SCHIST	
3.7	12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-48
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt	Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0.2 ppm
0.3	1'		
		Tan fine to coarse SAND, trace fine Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
			PID = 0.7 ppm
0.9	3'		
		Dark-Brown SILT, little to trace fine to coarse Gravel & Cobble, trace fine Sand & Clay	
1.2	4'		
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'	Gray-Brown fine to coarse SAND, trace Silt & fine to coarse Gravel	PID = 0.2 ppm
2.1	7'		
		Dark-Brown SILT, trace Clay & fine to coarse Gravel	
2.4	8'		
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
			PID = 0.1 ppm
3	10'		
3.4	11'	Refusal at 2.74m (9') on Gray SCHIST	
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-49
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.3 ppm
		Tan fine to coarse SAND, trace fine Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.4 ppm
		Dark-Brown SILT, little to trace fine to coarse Gravel & Cobble, trace fine Sand & Clay	
1.2	4'		
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'	Gray-Brown fine to coarse SAND, trace Silt & fine to coarse Gravel	PID = 0.5 ppm
2.1	7'		
2.4	8'	Dark-Brown SILT, trace Clay & fine to coarse Gravel	
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
3	10'		PID = 0.1 ppm
3.4	11'	Refusal at 2.74m (9') on Gray SCHIST	
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/9/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-50
Date Finished: 10/9/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Black fine SAND, trace Silt	PID = 0.6 ppm
0.6	2'	Tan fine to medium SAND, trace fine to coarse Gravel & Silt	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 2.8 ppm
1.2	4'	Yellow-Orange fine to medium SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.5	5'		Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 1.6 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/9/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-51
Date Finished: 10/9/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0.5 ppm
0.3	1'	Black fine SAND, trace Silt & fine Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
			PID = 1.3 ppm
0.9	3'	Yellow-Orange fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.2	4'		
1.5	5'		Macro Core Sample 1.2 - 1.5m (4' - 5'):
			PID = 0.4 ppm
1.8	6'		
2.1	7'	Refusal at 1.5m (5') on Gray SCHIST	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-52
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0.7 ppm
0.3	1'	Black fine SAND, trace Silt & fine Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
		Brown fine to coarse SAND, little fine to coarse Gravel & Cobble	
0.9	3'		PID = 0.9 ppm
1.2	4'		
1.5	5'		
		Rust-Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 0.4 ppm
2.1	7'		
2.4	8'		
2.74	9'		Macro Core Sample 2.4 - 2.6m (8' - 8.5'):
			PID = 0.2 ppm
3	10'	Refusal at 2.6m (8.5') on Gray SCHIST	
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/9/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-53
Date Finished: 10/9/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Tan fine to medium SAND, trace fine to coarse Gravel & Silt	PID = 0 ppm
0.6	2'	Black fine SAND, trace Silt, Ash & Cinders	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.1 ppm
1.2	4'	Yellow-Orange fine to medium SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.5	5'		Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 1.2 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/9/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-54
Date Finished: 10/9/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Black fine SAND, trace Silt & fine Gravel	PID = 0.2 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.5 ppm
1.2	4'	Yellow-Orange fine to coarse SAND, trace fine to coarse Gravel, Cobble & Silt	
1.5	5'		
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
2.1	7'		PID = 1.9 ppm
2.4	8'		
2.74	9'	Orange SILT, trace fine Sand	
3	10'		Macro Core Sample 2.4 - 3.7m (8' - 12'):
3.4	11'	Groundwater at 3.4m (11')	PID = 1.7 ppm
3.7	12'	End of Boring at 3.7m (12')	

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-55
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Black fine SAND, trace Silt & fine Gravel	PID = 0.3 ppm
0.6	2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.7 ppm
1.2	4'		
1.5	5'	Rust-Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 1.4 ppm
2.1	7'		
2.4	8'		
2.74	9'		Macro Core Sample 2.4 - 2.6m (8' - 8.5'):
3	10'	Refusal at 2.6m (8.5') on Gray SCHIST	PID = 0 ppm
3.4	11'		
3.7	12'		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/9/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-56
Date Finished: 10/9/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		ASPHALT - 7.6 cm (3")	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Gray-Brown fine SAND, little Silt, trace fine Gravel	PID = 0.1 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Groundwater at 0.9m (3')	PID = 0.2 ppm
1.2	4'	Gray fine to coarse SAND, trace fine to coarse Gravel & Silt	
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 0 ppm
2.1	7'		
2.4	8'		
2.74	9'		
3	10'	End of Boring at 2.4m (8')	
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/9/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-57
Date Finished: 10/9/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		ASPHALT - 7.6 cm (3")	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Gray-Brown fine SILT, trace fine Sand & fine to coarse Gravel	PID = 0.7 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Groundwater at 0.9m (3')	PID = 1.9 ppm
1.2	4'	Black ASH & CINDERS, trace Shells & fine to medium Sand	
1.5	5'		
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
2.1	7'		PID = 1.1 ppm
2.4	8'		
2.74	9'		
3	10'	End of Boring at 2.4m (8')	
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/9/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-58
Date Finished: 10/9/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Tan fine to coarse SAND, little fine to coarse Gravel, trace Silt	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 2.3 ppm
0.6	2'	Black ASH & CINDERS, trace Brick & fine to coarse Gravel	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 2.6 ppm
1.2	4'	Groundwater at 1.2m (4')	
1.5	5'		
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
2.1	7'		PID = 3.1 ppm
2.4	8'	Gray fine to coarse SAND, trace fine to coarse Gravel & Silt	
2.74	9'		
3	10'		Macro Core Sample 2.4 - 3.7m (8' - 12'):
3.4	11'		PID = 1.2 ppm
3.7	12'	End of Boring at 3.7m (12')	
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/9/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-59
Date Finished: 10/9/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		Gray medium to coarse GRAVEL - 7.6 cm (3")	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine SAND & SILT, trace fine to coarse Gravel & Cobble	PID = 0.1 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.0 ppm
		Gray-Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	
1.2	4'		
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 2.0 ppm
2.1	7'	Gray-Brown fine SAND, trace fine to coarse Gravel, Cobble & Silt	
2.4	8'		
2.74	9'		
			Macro Core Sample 2.4 - 3.7m (8' - 12'):
3	10'		PID = 2.4 ppm
3.4	11'	Groundwater at 3.4m (11')	
3.7	12'	End of Boring at 3.7m (12')	

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/9/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-60
Date Finished: 10/9/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine SAND, little fine to coarse Gravel, trace Silt	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 1.1 ppm
0.6	2'	Brown fine SAND, little Silt, little to trace fine to coarse Gravel & Cobble	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.7 ppm
1.2	4'	Orange-Brown SILT, trace fine Sand	
1.5	5'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 0.8 ppm
2.1	7'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
2.4	8'		
2.74	9'	Refusal at 2.4m (8') on Gray SCHIST	
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-61
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.1 ppm
0.6	2'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.5 ppm
1.2	4'		
1.5	5'		Macro Core Sample 1.2 - 1.5m (4' - 5'):
1.8	6'		PID = 0.1 ppm
2.1	7'		
2.4	8'	Refusal at 1.5m (5') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-62
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.1 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	PID = 0.2 ppm
1.2	4'		
1.5	5'		Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0.3 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-63
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel - 7.6cm (3")	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.2 ppm
0.3	1'		
0.6	2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 0.6 - 0.9 m (2' - 3'): PID = 0.1 ppm
0.9	3'		
1.2	4'		
1.5	5'	Refusal at 0.9m (3') on Gray SCHIST	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-64
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.1 ppm
0.6	2'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.2 ppm
1.2	4'		
1.5	5'		
1.8	6'	Refusal at 1.2m (4') on Gray SCHIST	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/9/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-65
Date Finished: 10/9/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Tan fine to coarse SAND, little fine to coarse Gravel, trace Silt	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 2.9 ppm
0.6	2'	Black ASH & CINDERS, trace Brick & fine to coarse Gravel	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 6.7 ppm
1.2	4'	Groundwater at 1.2m (4')	
1.5	5'		
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
2.1	7'		PID = 4.2 ppm
2.4	8'	Gray fine to coarse SAND, trace fine to coarse Gravel & Silt	
2.74	9'		
3	10'		Macro Core Sample 2.4 - 3.7m (8' - 12'):
3.4	11'		PID = 1.7 ppm
3.7	12'	End of Boring at 3.7m (12')	
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/9/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-66
Date Finished: 10/9/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Gray medium to coarse GRAVEL - 7.6 cm (3")	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine SAND & SILT, trace fine to coarse Gravel & Cobble	PID = 0.4 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.9 ppm
		Gray-Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	
1.2	4'		
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 1.1 ppm
2.1	7'		
		Gray-Brown fine SAND, trace fine to coarse Gravel, Cobble & Silt	
2.4	8'		
2.74	9'		
			Macro Core Sample 2.4 - 3.7m (8' - 12'):
3	10'		PID = 1.4 ppm
3.4	11'	Groundwater at 3.4m (11')	
3.7	12'		
		End of Boring at 3.7m (12')	
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/9/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-67
Date Finished: 10/9/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine SAND, little fine to coarse Gravel, trace Silt	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 1.7 ppm
0.6	2'	Brown fine SAND, little Silt, little to trace fine to coarse Gravel & Cobble	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.9 ppm
1.2	4'	Orange-Brown SILT, trace fine Sand	
1.5	5'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 2.1 ppm
2.1	7'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
2.4	8'		
2.74	9'		
3	10'	Refusal at 2.4m (8') on Gray SCHIST	
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/4/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-68
Date Finished: 10/4/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: E. Fuery

Depth m	Depth ft	Description	Comments
0.3	1'	Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 1.0 ppm
0.6	2'		
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.3 ppm
1.2	4'	End of Boring at 1.2m (4') - Manual Geoprobe	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-69
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'	Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel - 7.6cm (3")	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 1.1 ppm
0.6	2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 0.6 - 0.9 m (2' - 3'): PID = 0.4 ppm
0.9	3'		
1.2	4'		
1.5	5'	Refusal at 0.9m (3') on Gray SCHIST	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-70
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0 ppm
0.3	1'		
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
			PID = 0.2 ppm
0.9	3'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	
1.2	4'		
1.5	5'		
			Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-71
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.1 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	PID = 0.2 ppm
1.2	4'		
1.5	5'		Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0.1 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-72
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0.1 ppm
0.3	1'		
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
			PID = 0.2 ppm
0.9	3'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	
1.2	4'		
1.5	5'		
			Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0.3 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-73
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.1 ppm
0.6	2'		
0.9	3'		
1.2	4'	Refusal at 0.6m (2') on Gray SCHIST	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-74
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0 ppm
0.6	2'		
0.9	3'		
1.2	4'	Refusal at 0.6m (2') on Gray SCHIST	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-75
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0 ppm
0.3	1'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
			PID = 0.1 ppm
0.9	3'	Orange-Brown SILT	
1.2	4'		
1.5	5'	Brown fine to medium SAND	Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-76
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0 ppm
0.3	1'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
			PID = 0.3 ppm
0.9	3'	Orange-Brown SILT	
1.2	4'		
1.5	5'	Brown fine to medium SAND	Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0.7 ppm
2.1	7'		
2.4	8'	Refusal at 1.8m (6') on Gray SCHIST	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-77
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	PID = 0.4 ppm
0.6	2'		
0.9	3'		
1.2	4'	Refusal at 0.6m (2') on Gray SCHIST	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-78
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.3 ppm
		Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	
0.6	2'		
0.9	3'		
1.2	4'	Refusal at 0.6m (2') on Gray SCHIST	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-79
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	PID = 0 ppm
0.6	2'	Refusal at 0.6m (2') on Gray SCHIST	
0.9	3'		
1.2	4'		
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-80
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	PID = 0.1 ppm
0.6	2'		
0.9	3'		
1.2	4'	Refusal at 0.6m (2') on Gray SCHIST	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-81
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	PID = 0.3 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Weathered COBBLES & SCHIST	PID = 0 ppm
1.2	4'		
1.5	5'		
1.8	6'	Refusal at 1.2m (4') on Gray SCHIST	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-82
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0.7 ppm
0.3	1'	Brown fine to coarse SAND, trace fine to coarse Gravel & Silt	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
			PID = 0 ppm
0.9	3'	Weathered COBBLES & SCHIST	
1.2	4'		
1.5	5'		
1.8	6'	Refusal at 1.2m (4') on Gray SCHIST	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-83
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel - 7.6cm (3")	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.9 ppm
0.6	2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.1 ppm
1.2	4'		
1.5	5'		
1.8	6'	Refusal at 1.2m (4') on Gray SCHIST	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%

Date Started: 10/10/02	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-84
Date Finished: 10/10/02		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Moses Wheeler Bridge - Stratford & Milford, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel - 7.6cm (3")	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.8 ppm
0.6	2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 0.6 - 0.9 m (2' - 3'):
0.9	3'		PID = 0.3 ppm
1.2	4'		
1.5	5'	Refusal at 0.9m (3') on Gray SCHIST	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
m	ft		

Soil Description Explanation Trace = 0-10% Little = 10-20% Some = 20-35% And = 35-50%