TASK 210:
SUBSURFACE SITE INVESTIGATION

Safety Improvements to Interstate 95 Southbound Between Interchanges 15 & 14 Norwalk, Connecticut

VOLUME 1

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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 Safety Improvements to Interstate 95 Southbound between Interchanges 15 & 14 in Norwalk, Connecticut. The project involves the construction of an auxiliary lane for approximately 701 meters (2,300 feet) between the Interstate 95 (I-95) Southbound Interchange 15 on-ramp from Route 7, to the Interchange 14 off-ramp to Route 1. The auxiliary lane will expand into two lanes for the Exit 14 off-ramp to Route 1. These two lanes exiting I-95 will then expand into three lanes at the junction with Route 1. There will be two left-turn lanes and one right-turn lane to provide storage and improve traffic operations. Route 1 will be widened to accommodate 2.1 meter (7 foot) sidewalks on both sides of the roadway, and a lengthened left turn lane from Route 1 to the I-95 Southbound on-ramp.

Also proposed are traffic and safety improvements for the Cedar Street intersection with Route 1. Cedar Street will be realigned to intersect Route 1 opposite Ferris Street. The traffic signal will be upgraded and left-turn lanes will be constructed for each approach onto Route 1. Route 1 will also be widened in this area. The Taylor Avenue, Cedar Street, and Fairfield Avenue bridges will also be widened. A new abutment on the I-95 Southbound side and a new superstructure will be provided for these bridges to accommodate the auxiliary lane on I-95 Southbound. Figure 1 depicts the project area.

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, adjacent to properties that were identified as having a moderate or high risk designation in MGI's July, 2002 Task 110 – Corridor Land Use Evaluation report. MGI prepared a separate Task 210 report in May 2003 for the 163 Connecticut Avenue property located within the project corridor, which is slated for a total right-of-way acquisition.

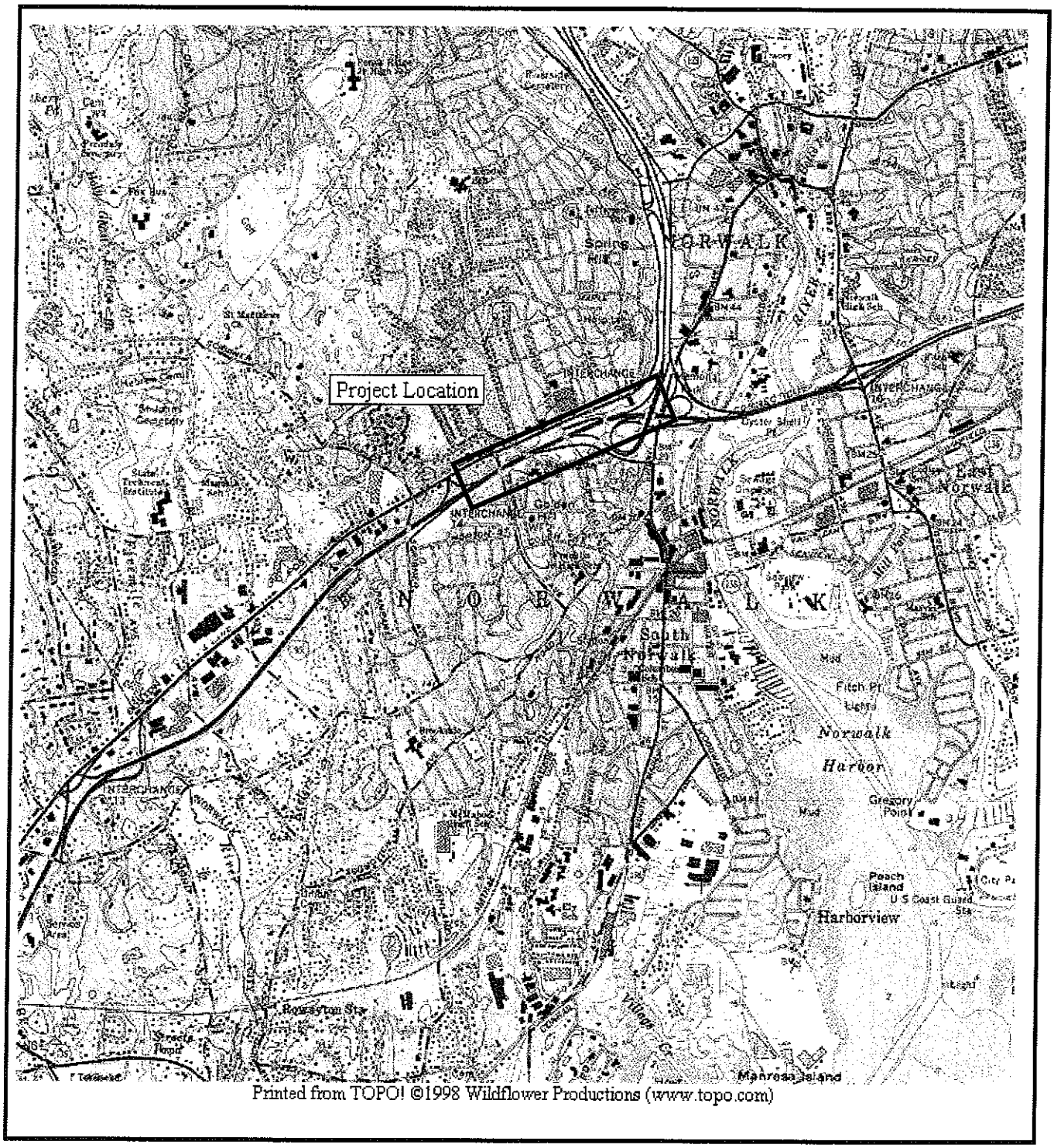


FIGURE 1 – SITE LOCATION PLAN

Safety Improvements to Interstate 95 Southbound Between Interchanges 15 & 14

Norwalk, Connecticut

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.

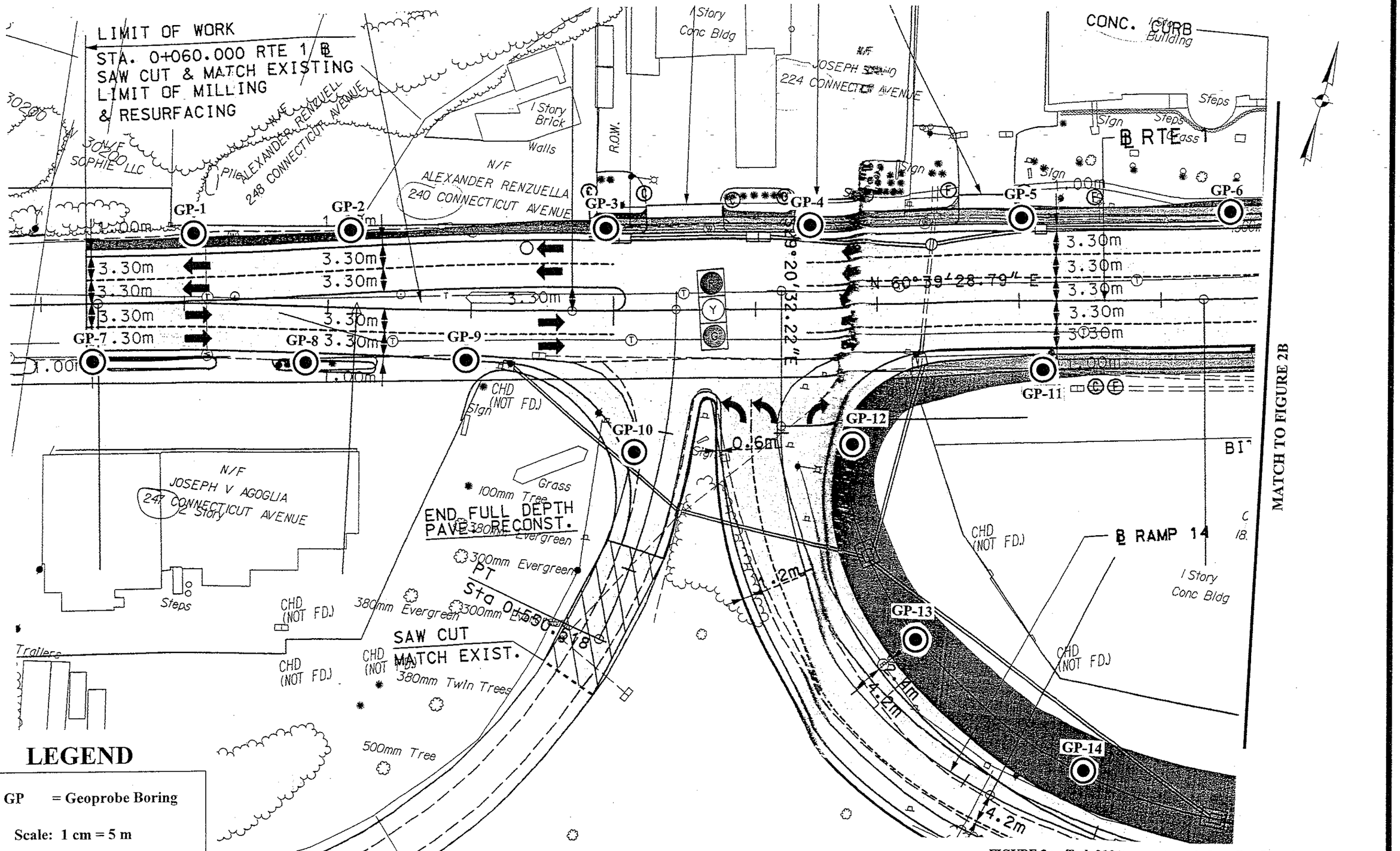
2.0 SITE DESCRIPTION

The Task 210 - Subsurface Site Investigation was conducted on land owned by the State of Connecticut in areas of anticipated construction and/or right-of-way activities, adjacent to properties that were identified as having a moderate or high risk designation in MGI's July, 2002 Task 110 – Corridor Land Use Evaluation report. The site area is depicted in Figures 2a to 2g - Task 210 Project Area & Sampling Locations.

3.0 LOCAL ENVIRONMENT & RECEPTORS

3.1 Groundwater & Topography

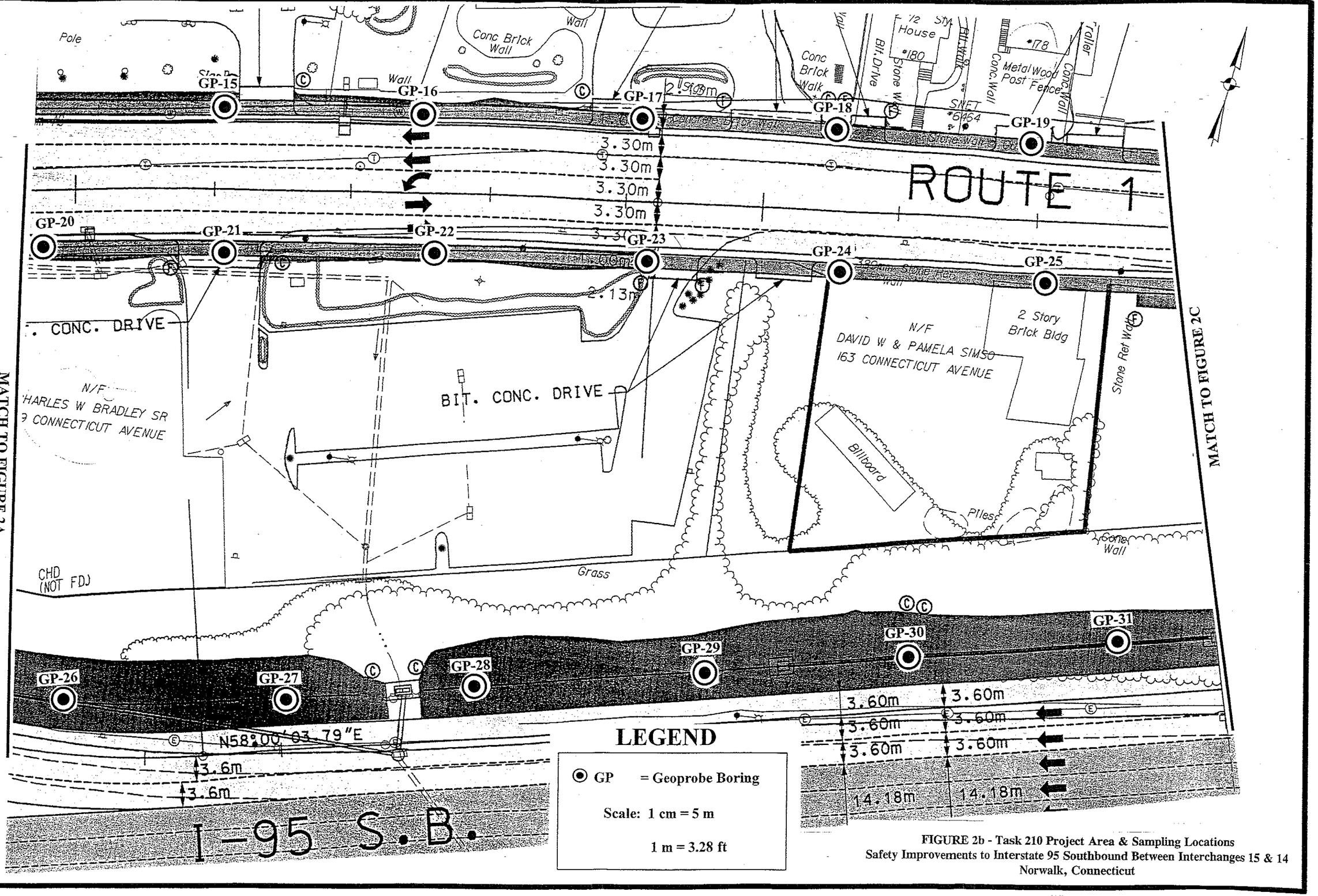
According to the Connecticut Department of Environmental Protection (CTDEP) 1985 Adopted Water Quality Classifications for the Southwest Coast River Basin, the groundwater classification for the entire project corridor is "GB". A "GB" groundwater classification indicates that the groundwater may not be suitable for direct human consumption without the need for treatment due to waste discharges, spills or leaks of chemicals, or land use impacts. The properties within the project corridor are connected to the public water distribution system and municipal sewer system.



LEGEND

◉ GP	= Geoprobe Boring
Scale: 1 cm = 5 m	
1 m = 3.28 ft	

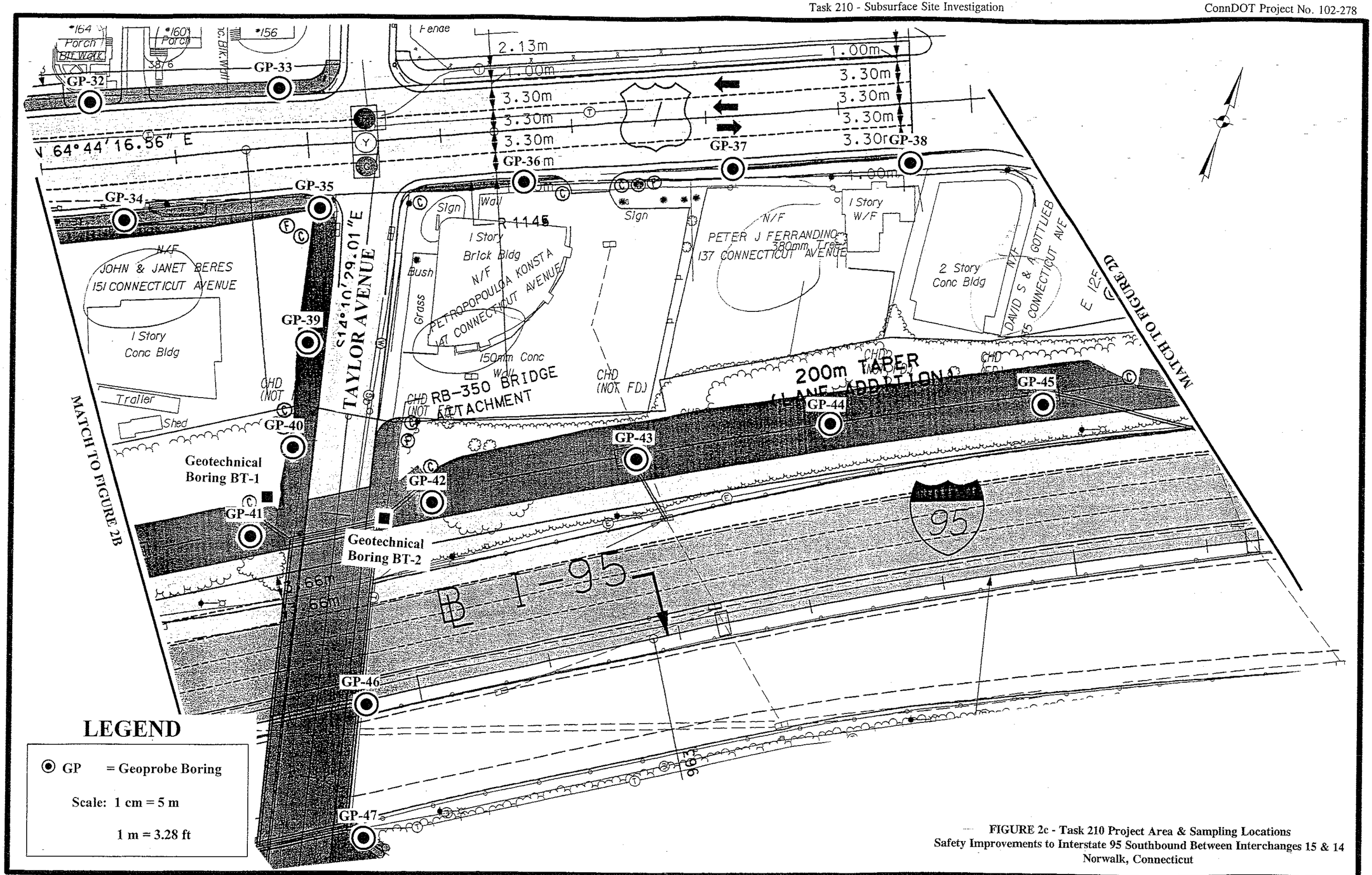
FIGURE 2a - Task 210 Project Area & Sampling Locations
Safety Improvements to Interstate 95 Southbound Between Interchanges 15 & 14
Norwalk, Connecticut



LEGEND

⊙ GP	= Geoprobe Boring
Scale: 1 cm = 5 m	
1 m = 3.28 ft	

FIGURE 2b - Task 210 Project Area & Sampling Locations
Safety Improvements to Interstate 95 Southbound Between Interchanges 15 & 14
Norwalk, Connecticut



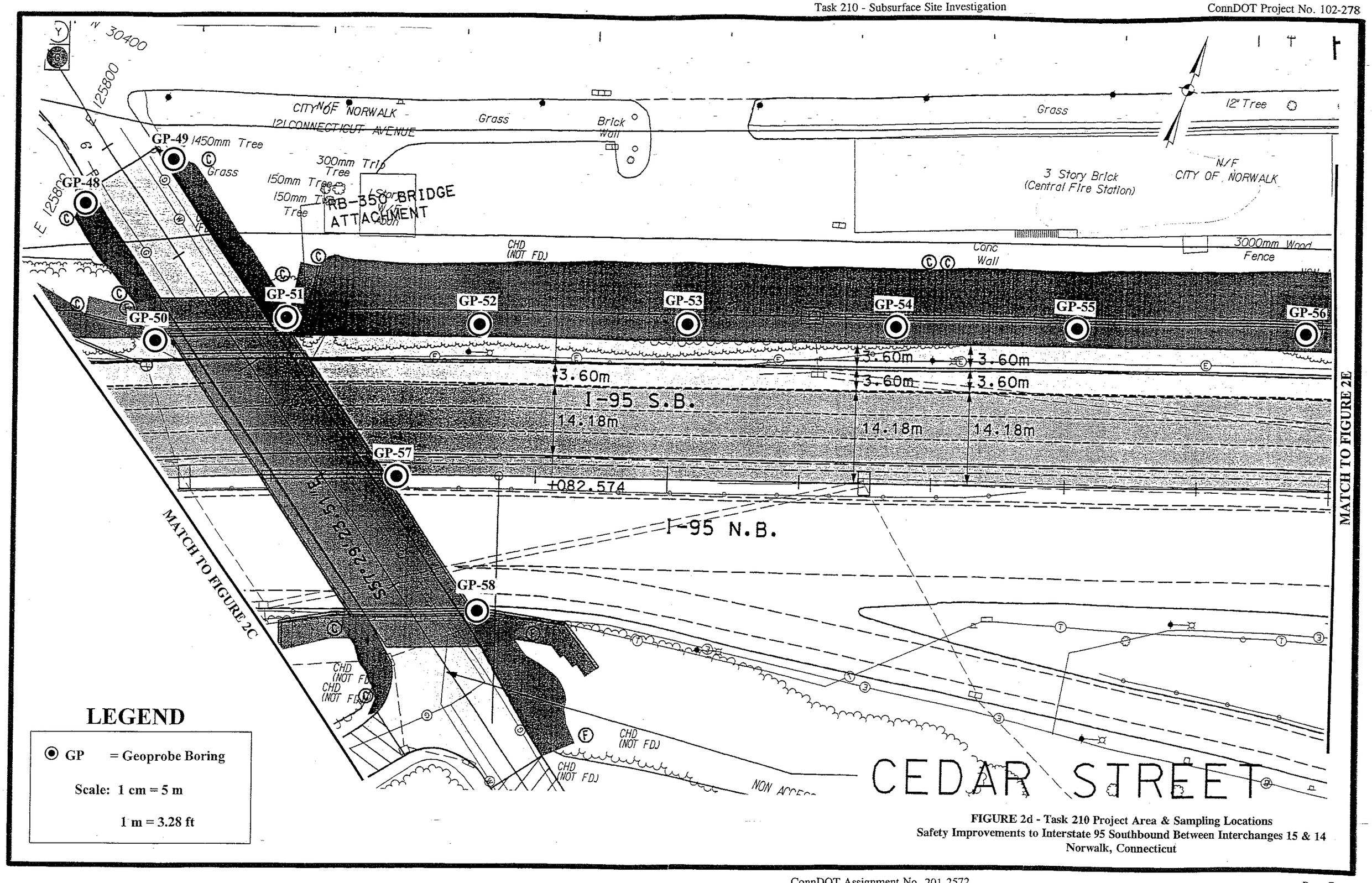
LEGEND

GP = Geoprobe Boring

Scale: 1 cm = 5 m

1 m = 3.28 ft

FIGURE 2c - Task 210 Project Area & Sampling Locations
Safety Improvements to Interstate 95 Southbound Between Interchanges 15 & 14
Norwalk, Connecticut



LEGEND

GP = Geoprobe Boring

Scale: 1 cm = 5 m

1 m = 3.28 ft

FIGURE 2d - Task 210 Project Area & Sampling Locations
Safety Improvements to Interstate 95 Southbound Between Interchanges 15 & 14
Norwalk, Connecticut

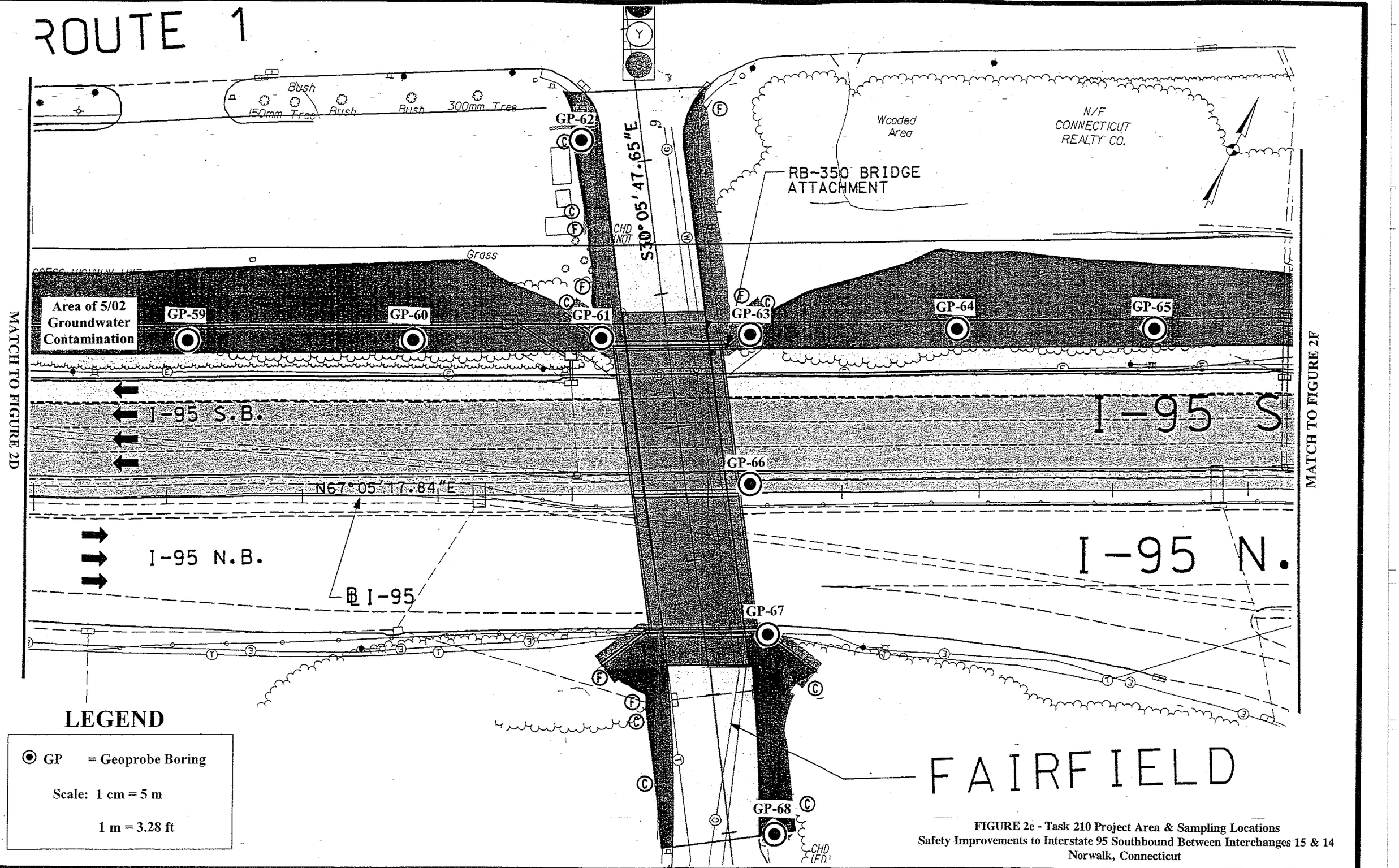


FIGURE 2e - Task 210 Project Area & Sampling Locations
Safety Improvements to Interstate 95 Southbound Between Interchanges 15 & 14
Norwalk, Connecticut

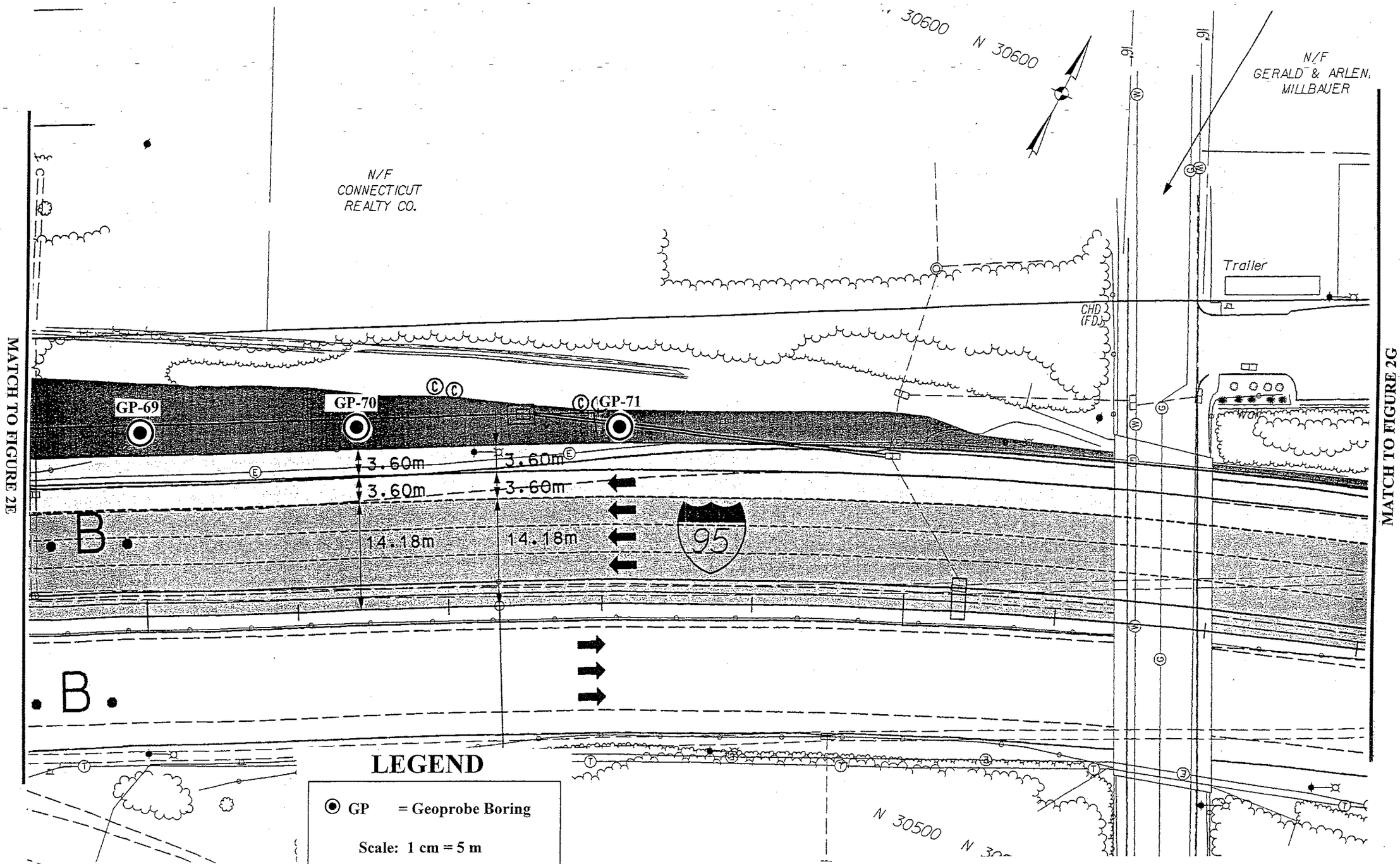


FIGURE 2f - Task 210 Project Area & Sampling Locations
Safety Improvements to Interstate 95 Southbound Between Interchanges 15 & 14
Norwalk, Connecticut

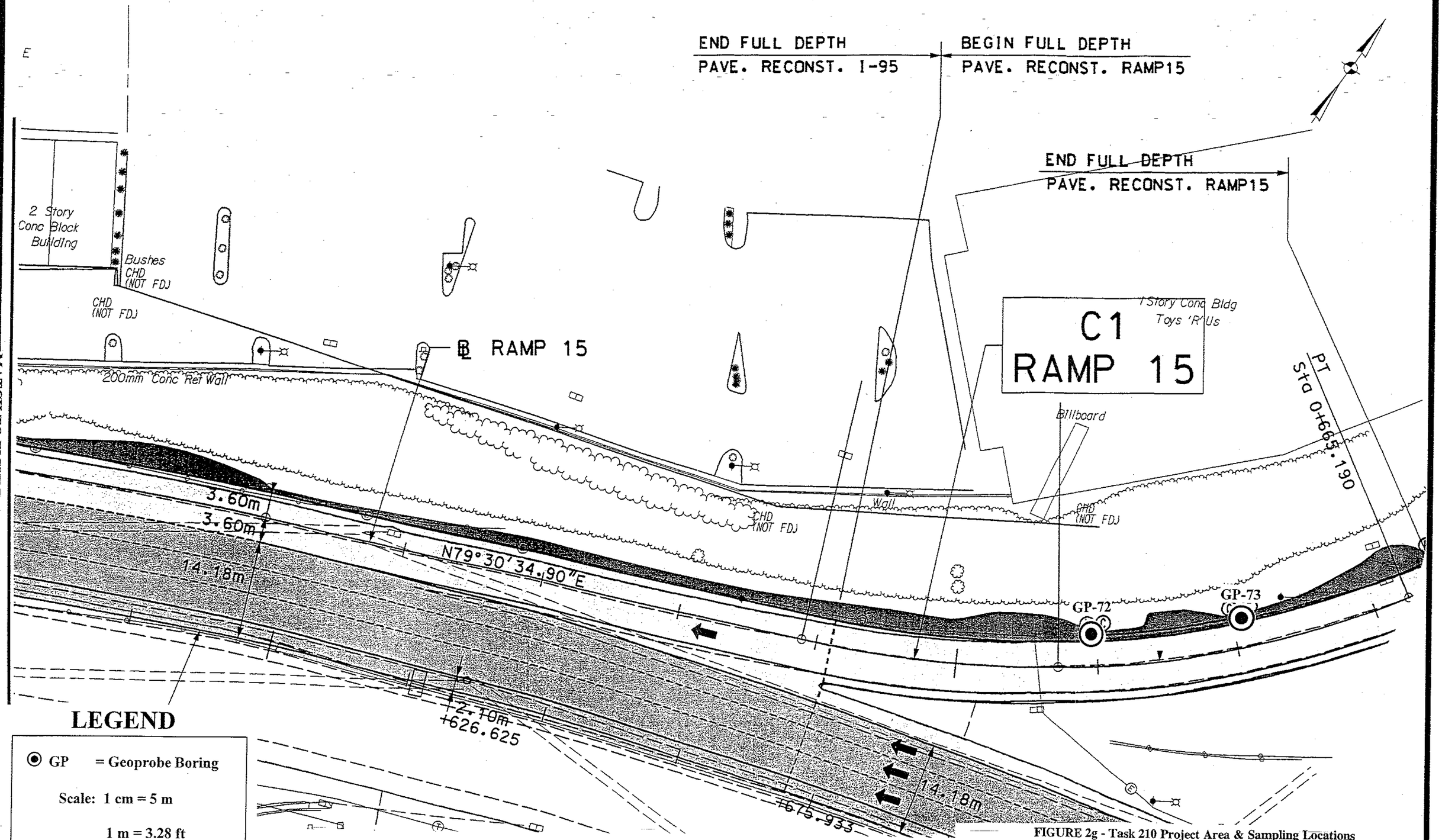


FIGURE 2g - Task 210 Project Area & Sampling Locations
Safety Improvements to Interstate 95 Southbound Between Interchanges 15 & 14
Norwalk, Connecticut

The project area is located within the Norwalk Regional Basin, within the Southwest Coast Major Drainage Basin. There are no surface water bodies within the project corridor. The general topography of the site is relatively flat. Based upon the site setting, the inferred direction of groundwater flow is towards the east/southeast, towards Norwalk Harbor.

3.2 Geology

The Surficial Materials Map of Connecticut depicts the surficial geology of the project area as brown sandy soils with a friable, loamy substratum, and shallow sandy soils over bedrock. The Bedrock Geological Map of Connecticut, compiled by John Rodgers in 1985, indicates that the bedrock unit underlying the project area is the Trap Falls Formation, which is a gray medium-grained schist and a light-colored, foliated, granitic gneiss.

Soils encountered during this investigation consisted of brown sand and silt units with varying amounts of gravel and cobbles. A gray micaceous gneiss unit was encountered in nearly all of the borings at depths ranging from 0.6 to 2.74 meters (2 to 9 feet) below the ground surface.

4.0 SUBSURFACE INVESTIGATION

Based upon the industrial and commercial nature of the properties surrounding the Interstate 95 corridor, a comprehensive sampling program was conducted. The following subsections detail the investigation.

4.1 Geoprobe® Soil Borings & Soil Sample Analyses

On January 23 & 27, April 17, 18, 21, & 23, 2003, seventy-three (73) Geoprobe® soil borings (GP-1 to GP-73) were advanced throughout 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 2(a) to 2(g) - Task 210 Project Area & Sampling Locations.

The Geoprobe® soil borings were advanced to 3.7 meters (12 feet) below grade or sampler refusal 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 (1) soil sample from each boring was placed in glassware supplied by Spectrum Analytical Laboratory, and stored in an ice-filled cooler. The first macro core sample from each boring was segregated and split into a 0 to 0.6 meter (0'-2') sample and a 0.6 to 1.2 meter (2'-4') sample. The soil sample collected from 0.6 to 1.2 meter/2' to 4' 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, polycyclic aromatic hydrocarbons (PAHs) utilizing EPA Method 8270, petroleum hydrocarbons utilizing the Connecticut ETPH method, and total and SPLP RCRA 8 metals.

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 December 2002 Task 210 - Subsurface Site Investigation Work Plan.

4.2 Groundwater Sample Collection & Groundwater Analyses

Two (2) groundwater grab samples (GP-11 GW & GP-23 GW) were collected from the borings in which groundwater was encountered. 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 samples were placed in laboratory supplied glassware, and stored in an ice-filled cooler. The groundwater samples were analyzed at Spectrum Analytical for VOCs utilizing EPA Method 8260, TPH utilizing the Connecticut ETPH method, PAHs utilizing EPA Method 8270, and total RCRA 8 metals.

4.3 Project Quality Assurance/Quality Control Practices

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

All samples 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 as a legal record of possession of the sample. The COC was initiated in the field and accompanied the containers during 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 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 and groundwater 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 subsection 5.2 and 5.3 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 corridor is situated in 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 soil 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 resource (GA & GAA groundwater classification areas). Since the project corridor is situated in a GB groundwater area, the GPC do not apply to this Site.

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. Since groundwater was located within 4.6 meters (15 feet) of the ground surface, the Volatilization Criteria apply to this Site.

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 groundwater likely discharges to the Norwalk Harbor, the SWPC apply to contaminants detected in the groundwater.

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. Summaries of the laboratory results from the Geoprobe® boring soil samples are presented in Tables 1(a) to 1(s), 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.

Varying concentrations of petroleum hydrocarbons (TPH) were detected in all of the borings from Below Detectable Limits (10 to 20 parts per million [ppm]) to 1,400 ppm. The following four soil samples contained TPH at concentrations that exceed the CTDEP Residential DEC of 500 ppm; GP-6, 0 to 0.9 meter/0' to 3' sample (1,100 ppm); GP-16, 1.2 to 1.8 meter/4' to 6' sample (1,400 ppm); and GP-56, 0 to 0.9 meter/0' to 3' sample (530 ppm). No other sample contained TPH at a concentration that exceeds any applicable CTDEP RSR criteria.

Eleven (11) of the soil samples contained detectable concentrations of VOCs. The soil samples from borings GP-2, GP-3, GP-4, GP-5, GP-6, GP-16, GP-17, GP-34, GP-35, GP-38, and GP-39 contained the VOC naphthalene at concentrations ranging from 0.0071 ppm to 0.51 ppm. The concentrations detected in the samples do not exceed any applicable CTDEP RSR criteria.

Several polynuclear aromatic hydrocarbon (PAH) compounds were detected at varying total concentrations ranging from Below Detectable Limits to 177.17 ppm. Twenty-eight (28) soil samples contained concentrations of PAHs that exceed applicable CTDEP RSR Criteria. The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-2 contained the compounds benzo(a)anthracene (2.1 ppm), benzo(a)pyrene (2.5 ppm), benzo(b)fluoranthene (2.7 ppm), benzo(k)fluoranthene (1.6 ppm), chrysene (2.4 ppm), and indeno(1,2,3-cd)pyrene (1.4 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.9 meter (0 to 3 foot) soil sample from boring GP-3 contained the compounds benzo(a)anthracene (1.7 ppm), benzo(a)pyrene (2.1 ppm), benzo(b)fluoranthene (2.0 ppm), benzo(k)fluoranthene (1.3 ppm), chrysene (1.9 ppm), and indeno(1,2,3-cd)pyrene (1.2 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.9 meter (0 to 3 foot) soil sample from boring GP-4 contained the compounds benzo(a)anthracene (2.0 ppm), benzo(a)pyrene (2.1 ppm), benzo(b)fluoranthene (2.2 ppm), benzo(k)fluoranthene (1.3 ppm), chrysene (1.9 ppm), and indeno(1,2,3-cd)pyrene (1.1 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-5 contained the compounds benzo(a)anthracene (1.9 ppm), benzo(a)pyrene (2.4 ppm), benzo(b)fluoranthene (2.3 ppm), benzo(k)fluoranthene (1.6 ppm), chrysene (2.2 ppm), and indeno(1,2,3-cd)pyrene (1.4 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.9 meter (0 to 3 foot) soil sample from boring GP-6 contained the compounds benzo(a)anthracene (10.0 ppm), benzo(a)pyrene (11.0 ppm), benzo(b)fluoranthene (12.0 ppm), benzo(k)fluoranthene (6.2 ppm), chrysene (11.0 ppm), dibenz(a,h)anthracene (1.1 ppm), and indeno(1,2,3-cd)pyrene (5.5 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. 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 Commercial/Industrial DEC.

The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-10 contained the compound benzo(b)fluoranthene (1.1 ppm) at a concentration that exceeds its GB PMC and Residential DEC.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-15 contained the compounds benzo(a)anthracene (4.4 ppm), benzo(a)pyrene (4.8 ppm), benzo(b)fluoranthene (5.0 ppm), benzo(k)fluoranthene (3.0 ppm), chrysene (5.0 ppm), and indeno(1,2,3-cd)pyrene (2.7 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 1.2 to 1.8 meter (4 to 6 foot) soil sample from boring GP-16 contained the compounds benzo(a)anthracene (15.0 ppm), benzo(a)pyrene (15.0 ppm), benzo(b)fluoranthene (15.0 ppm), benzo(k)fluoranthene (9.3 ppm), chrysene (16.0 ppm), dibenz(a,h)anthracene (2.1 ppm), and indeno(1,2,3-cd)pyrene (7.0 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. 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 Commercial/Industrial DEC.

The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-17 contained the compound benzo(b)fluoranthene (1.4 ppm) at a concentration that exceeds its GB PMC and Residential DEC.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-18 contained the compounds benzo(a)anthracene (1.6 ppm), benzo(a)pyrene (1.8 ppm), and benzo(b)fluoranthene (2.4 ppm) at concentrations that exceed their respective GB PMC and Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-23 contained the compounds benzo(a)anthracene (3.4 ppm), benzo(a)pyrene (2.7 ppm), benzo(b)fluoranthene (4.7 ppm), benzo(k)fluoranthene (2.1 ppm), chrysene (3.9 ppm), and indeno(1,2,3-cd)pyrene (1.6 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-24 contained the compounds benzo(a)anthracene (1.1 ppm), benzo(a)pyrene (1.2 ppm), benzo(b)fluoranthene (1.5 ppm), and chrysene (1.3 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-25 contained the compounds benzo(a)anthracene (1.3 ppm), benzo(a)pyrene (1.5 ppm), benzo(b)fluoranthene (2.1 ppm), and chrysene (1.5 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.9 meter (0 to 3 foot) soil sample from boring GP-29 contained the compounds benzo(a)anthracene (1.5 ppm), benzo(a)pyrene (1.5 ppm), benzo(b)fluoranthene (2.0 ppm), and chrysene (1.8 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.9 meter (0 to 3 foot) soil sample from boring GP-30 contained the compounds benzo(a)anthracene (1.4 ppm), benzo(a)pyrene (1.4 ppm), benzo(b)fluoranthene (1.7 ppm), and chrysene (1.7 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-34 contained the compounds benzo(a)anthracene (6.7 ppm), benzo(a)pyrene (7.7 ppm), benzo(b)fluoranthene (10.0 ppm), benzo(k)fluoranthene (2.9 ppm), chrysene (7.1 ppm), and indeno(1,2,3-cd)pyrene (4.1 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compounds benzo(a)pyrene and benzo(b)fluoranthene were detected at concentrations that exceed their Commercial/Industrial DEC.

The 1.2 to 1.8 meter (4 to 6 foot) soil sample from boring GP-35 contained the compounds benzo(a)anthracene (6.5 ppm), benzo(a)pyrene (6.7 ppm), benzo(b)fluoranthene (8.0 ppm), benzo(k)fluoranthene (2.9 ppm), chrysene (6.2 ppm), dibenz(a,h)anthracene (1.1 ppm), and indeno(1,2,3-cd)pyrene (3.4 ppm) at concentrations that exceed their GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their Residential DEC. In addition, the compounds benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene were detected at concentrations that exceed their Commercial/Industrial DEC.

The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-49 contained the compounds benzo(a)anthracene (1.9 ppm), benzo(a)pyrene (2.2 ppm), benzo(b)fluoranthene (2.9 ppm), benzo(k)fluoranthene (1.1 ppm), chrysene (2.2 ppm), and indeno(1,2,3-cd)pyrene (1.2 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-50 contained the compounds benzo(a)anthracene (1.9 ppm), benzo(a)pyrene (2.1 ppm), benzo(b)fluoranthene (2.1 ppm), benzo(k)fluoranthene (1.3 ppm), chrysene (2.3 ppm), and indeno(1,2,3-cd)pyrene (1.4 ppm) at concentrations that exceed their GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.9 meter (0 to 3 foot) soil sample from boring GP-52 contained the compounds benzo(b)fluoranthene (1.2 ppm) and chrysene (1.3 ppm) at concentrations that exceed their respective GB PMC. The compound benzo(b)fluoranthene was also detected at a concentration that exceeds its Residential DEC.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-55 contained the compounds benzo(a)anthracene (1.4 ppm), benzo(a)pyrene (1.8 ppm), benzo(b)fluoranthene (2.0 ppm), benzo(k)fluoranthene (1.2 ppm), and chrysene (1.6 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-57 contained the compounds benzo(a)anthracene (1.8 ppm), benzo(a)pyrene (2.1 ppm), benzo(b)fluoranthene (2.4 ppm), benzo(k)fluoranthene (1.8 ppm), chrysene (2.2 ppm), and indeno(1,2,3-cd)pyrene (1.2 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-58 contained the compounds benzo(a)anthracene (1.1 ppm), benzo(a)pyrene (1.3 ppm), benzo(b)fluoranthene (1.6 ppm), benzo(k)fluoranthene (1.1 ppm), and chrysene (1.3 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.9 meter (0 to 3 foot) soil sample from boring GP-59 contained the compounds benzo(a)pyrene (1.1 ppm), benzo(b)fluoranthene (1.1 ppm), and chrysene (1.1 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)pyrene and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-61 contained the compounds benzo(a)pyrene (1.1 ppm), benzo(b)fluoranthene (1.4 ppm), and chrysene (1.2 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)pyrene and benzo(b)fluoranthene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0.6 to 1.2 meter (2 to 4 foot) soil sample from boring GP-62 contained the compounds benzo(a)anthracene (4.1 ppm), benzo(a)pyrene (4.0 ppm), benzo(b)fluoranthene (3.7 ppm), benzo(k)fluoranthene (2.4 ppm), chrysene (3.9 ppm), and indeno(1,2,3-cd)pyrene (2.1 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.9 meter (0 to 3 foot) soil sample from boring GP-67 contained the compounds benzo(a)anthracene (2.0 ppm), benzo(a)pyrene (2.3 ppm), benzo(b)fluoranthene (2.4 ppm), benzo(k)fluoranthene (1.9 ppm), chrysene (2.3 ppm), and indeno(1,2,3-cd)pyrene (1.3 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

The 0 to 0.6 meter (0 to 2 foot) soil sample from boring GP-68 contained the compounds benzo(a)anthracene (5.5 ppm), benzo(a)pyrene (5.0 ppm), benzo(b)fluoranthene (4.9 ppm), benzo(k)fluoranthene (3.2 ppm), chrysene (5.2 ppm), and indeno(1,2,3-cd)pyrene (2.3 ppm) at concentrations that exceed their respective GB PMC. The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected at concentrations that exceed their respective Residential DEC. In addition, the compound benzo(a)pyrene was detected at a concentration that exceeds its Commercial/Industrial DEC.

Total concentrations of the metals arsenic, barium, cadmium, chromium, lead, mercury, and silver were detected at varying concentrations in the soil samples throughout the project corridor. The 0 to 0.9 meter (0' to 3') sample from borings GP-29 (586 ppm), GP-56 (701 ppm), and GP-60 (588 ppm) contained total lead at concentrations that exceed its Residential DEC of 500 ppm. No other metals were detected at concentrations that exceeded any applicable CTDEP RSR criteria.

Leachable barium, chromium, and lead (via SPLP) were detected at varying concentrations throughout the project corridor. However, no leachable metals were detected at concentrations that exceeded any applicable CTDEP RSR Criteria.

5.3 Results of Groundwater Grab Sample Analyses

The groundwater grab samples (GP-11 GW & GP-23 GW) collected during the advancement of the Geoprobe® borings were sent to Spectrum Analytical for laboratory analyses. Summaries of the laboratory results from the groundwater grab samples are presented in Table 2, which is located at the end of this report, and copies of the groundwater analytical results are included in Appendix C. The following summarizes the results of the analyses conducted on the groundwater grab samples.

The two groundwater samples did not contain detectable concentrations of TPH and PAHs. The GP-11 groundwater sample contained the VOC methyl tertiary butyl ether (MTBE) (3.4 parts per billion [ppb]). However, the concentration detected did not exceed any applicable CTDEP RSR criteria.

The groundwater samples contained total arsenic, barium, chromium, lead, and mercury at varying total concentrations. The GP-11 groundwater sample contained the metals arsenic (0.118 ppm), chromium (0.4 ppm), lead (0.298 ppm), and mercury (0.0007 ppm) at total concentrations that exceed their respective CTDEP SWPC. No other metals were detected at concentrations that exceeded any applicable CTDEP RSR criteria.

5.4 Previous Investigations

Soil samples collected during the advancement of CTDOT's geotechnical borings adjacent to the northern side of the Taylor Avenue bridge over Interstate 95 in 2002 indicated the presence of petroleum contamination. Geotechnical boring BT-1 (situated to the west of the Taylor Avenue bridge) contained a petroleum odor in the soil sample collected from 4.27 to 4.88 meters (14 to 16 feet) below the ground surface. Geotechnical boring BT-2 (situated to the east of the Taylor Avenue bridge) contained petroleum product in the soil sample collected from 5.79 to 6.4 meters (19 to 21 feet) below grade, and a petroleum odor and staining in the soil samples collected from 6.4 to 7.92 meters (21 to 26 feet) below the ground surface. Figure 2c – Task 210 Project Area & Sampling Locations depicts the locations of the geotechnical borings.

In May 2002, contaminated groundwater was encountered by a construction contractor working on the Interstate 95 Southbound shoulder, west of the Fairfield Avenue overpass. The contaminated groundwater was observed seeping out of the embankment adjacent to the Norwalk Fire Station. A surficial grab sample of the groundwater indicated the presence of VOCs associated with gasoline, including benzene (370 ppb), ethylbenzene (210 ppb), isopropylbenzene (22 ppb), MTBE (240 ppb), naphthalene (63 ppb), n-propylbenzene (20 ppb), toluene (33 ppb), 1,2,4-trimethylbenzene (82 ppb), 1,3,5-trimethylbenzene (10 ppb), and xylenes (200 ppb). The concentration of benzene detected in the grab sample exceeds the Residential Volatilization Criteria (VC) of 215 ppb. In addition, total lead (0.123 ppm) was detected in the grab sample at a concentration that exceeds its SWPC of 0.013 ppm.

The source of the gasoline contamination was found to be a BP (former Amoco) gas station located to the northeast, across Route 1. A release of approximately 7,000-gallons of gasoline occurred on the property in 2000, due to a leaking underground storage tank. In response to the release, a groundwater treatment system was installed at the gas station property. In June 2002, a contractor was hired to treat the contaminated groundwater seeping from the Interstate 95 southbound embankment. Approximately 1,500-gallons of water was collected and transported to the gas station for on-site treatment.

5.5 Quality Assurance/Quality Control Samples

The field blank (FB-1 to FB-6) samples were collected on each of the six sampling days. The field blank samples were analyzed for VOCs, TPH, PAHs, and total RCRA 8 metals. In addition, six trip blank samples (TB-1 to TB-6) provided by Spectrum Analytical were analyzed for VOCs. The FB-4 filed blank sample contained total lead at a concentration of 0.0078 ppm. The quantity of lead detected in the field blank sample is negligible and may be due to field or laboratory contamination. No other field or trip blank sample contained detectable concentrations of contaminants. Copies of the analytical reports associated with the quality assurance/quality control samples are included in Appendix D.

6.0 DISCUSSION OF AFFECTED RESOURCES

6.1 Areas of Environmental Concern

Based upon the results of laboratory analyses performed on soil and groundwater samples for this Task 210 investigation, five (5) areas of environmental concern (AOEC) and two (2) groundwater AOECs have been identified where contaminants are present at concentrations that exceed applicable CTDEP RSR criteria. In addition, nine (9) low-level areas of environmental concern (LLAOECs) 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 the LLAOECs within the project corridor are discussed in the following sections.

AOEC #1: 151 to 189, & 200 to 248 Connecticut Avenue (Route 1) and I-95 South, Interchange 14 On-Ramp Area: Samples GP-2 to GP-6, GP-10, GP-15 to GP-18, GP-23, GP-24, GP-25, GP-34 & GP-35:

Analytical results from the soil samples collected from borings GP-2, GP-3, GP-4, GP-5, GP-6, GP-10, GP-15, GP-16, GP-17, GP-18, GP-23, GP-24, GP-25, GP-34, and GP-35 indicate the presence of TPH and PAH contamination at slightly elevated concentrations in shallow soil ranging from 0 to 1.8 meters (0 to 6 feet) below grade. The contamination detected exceeds the GB PMC, Residential DEC, and Commercial/Industrial DEC.

AOEC #2: I-95 South, Between Exit 14 & Taylor Avenue Overpass: Samples GP-29 & GP-30:

Analytical results from the soil samples collected from GP-29 and GP-30 indicate the presence of PAH contamination that slightly exceeds the GB PMC, Residential DEC, and Commercial/Industrial DEC. In addition, the GP-29 soil sample contained total lead contamination that slightly exceeds the Residential DEC. The PAH and lead contamination was detected in soil ranging from 0 to 0.9 meters (0 to 3 feet) below the ground surface.

AOEC #3: I-95 & Route 1 at the Cedar Street Overpass: Samples GP-49, GP-50, GP-52, GP-57 & GP-58:

Analytical results from the soil samples collected from GP-49, GP-50, GP-52, GP-57 and GP-58 indicate the presence of PAH contamination at 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 #4: I-95 & Route 1 Adjacent to Fairfield Avenue Overpass: Samples GP-55, GP-56, GP-59, GP-60, GP-61, & GP-62:

Analytical results from the soil samples collected from GP-55, GP-56, GP-59, GP-60, GP-61, and GP-62 indicate the presence of PAH, TPH, and total 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, and Residential & Commercial/Industrial DEC.

AOEC #5: Fairfield Avenue, South of I-95 Overpass: Samples GP-67 & GP-68:

Analytical results from the soil samples collected from GP-67 and GP-68 indicate the presence of PAH contamination at slightly elevated concentrations in shallow soil ranging from 0 to 0.9 meters (0 to 3 feet) below grade. The contamination detected exceeds the GB PMC, and Residential & Commercial/Industrial DEC.

Groundwater AOECs

Analytical results from the groundwater samples collected from GP-11 indicate the presence of total arsenic, chromium, lead, and mercury at concentrations that exceed the SWPC. In addition, in May 2002, contaminated groundwater was encountered by a construction contractor working on the Interstate 95 Southbound shoulder, west of the Fairfield Avenue overpass. A surficial grab sample of the groundwater indicated the presence of benzene at a concentration that exceeds its Residential VC. In addition, total lead (0.123 ppm) was detected in the grab sample at a concentration that exceeds its SWPC. Therefore, all construction dewatering fluids generated within the portion of the project limits adjacent to these areas shall be considered contaminated and must be pumped to approved containers, and sampled prior to discharge.

Dewatering fluids generated within the remainder of the project limits shall be visually inspected for evidence of contamination, i.e. sheen, odor, etc., prior to discharge. If evidence of contamination is detected, the dewatering fluids shall be pumped to approved containers and sampled prior to discharge.

6.2 Low-Level Areas of Environmental Concern

LLAOEC #A: 240, 247 & 248 Connecticut Avenue (Route 1) Area: Samples GP-1, GP-7, GP-8, & GP-9:

Analytical results from the soil samples collected from borings GP-1, GP-7, GP-8, and GP-9 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 1.2 meters (0 to 4 feet) below grade.

LLAOEC #B: I-95 South, Interchange 14 Off-ramp Area: Samples GP-12, GP-13, GP-14, GP-26, GP-27, & GP-28:

Analytical results from the soil samples collected from borings GP-12, GP-13, GP-14, GP-26, GP-27, and GP-28 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. TPH was detected in the soil ranging from 0 to 1.8 meters (0 to 6 feet) below grade.

LLAOEC #C: 189 Connecticut Avenue (Route 1) Area: Samples GP-21 & GP-22:

Analytical results from the soil samples collected from borings GP-21 and GP-22 indicate the presence of TPH at concentrations below CTDEP RSR standards. TPH was detected in the soil ranging from 0 to 1.2 meters (0 to 4 feet) below grade.

LLAOEC #D: 164 Connecticut Avenue (Route 1) Area: Sample GP-32:

Analytical results from the soil sample collected from boring GP-32 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.

LLAOEC #E: I-95 South Near Taylor Avenue Area: Samples GP-31, GP-39, GP-40, GP-42 to GP-47, Geotechnical Boring BT-1 & Geotechnical Boring BT-2:

Analytical results from the soil samples collected from borings GP-31, GP-39, GP-40, GP-42, GP-43, GP-44, GP-45, GP-46, and GP-47 indicate the presence of TPH, VOC (naphthalene), and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 2.4 meters (0 to 8 feet) below grade. In addition, soil samples collected during the advancement of CTDOT's geotechnical borings adjacent to the northern side of the Taylor Avenue bridge over Interstate 95 in 2002 indicated the presence of petroleum contamination. Geotechnical boring BT-1 (situated to the west of the Taylor Avenue bridge) contained a petroleum odor in the soil sample collected from 4.27 to 4.88 meters (14 to 16 feet) below the ground surface. Geotechnical boring BT-2 (situated to the east of the Taylor Avenue bridge) contained petroleum product in the soil sample collected from 5.79 to 6.4 meters (19 to 21 feet) below grade, and a petroleum odor and staining in the soil samples collected from 6.4 to 7.92 meters (21 to 26 feet) below the ground surface. Laboratory analyses of the geotechnical soil samples were not performed.

LLAOEC #F: 135, 137 & 147 Connecticut Avenue (Route 1) Area: Samples GP-36, GP-37, GP-38, & GP-48:

Analytical results from the soil samples collected from borings GP-36, GP-37, GP-38, and GP-48 indicate the presence of TPH, VOC (naphthalene), and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 1.2 meters (0 to 4 feet) below grade.

LLAOEC #G: I-95 South, East of Cedar Street Overpass Area: Samples GP-53 & GP-54:

Analytical results from the soil samples collected from borings GP-53 and GP-54 indicate 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 #H: I-95 South, East of Fairfield Avenue Overpass Area: Samples GP-63 to GP-66, GP-69 & GP-70:

Analytical results from the soil samples collected from borings GP-63, GP-64, GP-65, GP-66, GP-69 and GP-70 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 0.9 meters (0 to 3 feet) below grade.

LLAOEC #I: I-95 South, West of Interchange 15 Area: Samples GP-72 & GP-73:

Analytical results from the soil samples collected from borings GP-72 and GP-73 indicate the presence of TPH and PAHs at concentrations below CTDEP RSR standards. The contaminants were detected in the soil ranging from 0 to 2.4 meters (0 to 8 feet) below grade.

7.0 RECOMMENDATIONS

The results of this Task 210 – Subsurface Site Investigation for the Interstate 95 Safety Improvements project in Norwalk, Connecticut indicate the presence of petroleum hydrocarbon (TPH), total lead, and semi-volatile compound (PAH) contamination in soil ranging from 0 to 1.8 meters (0 to 6 feet) below grade, at concentrations that exceed the applicable RSR criteria. In addition, results of groundwater samples collected indicate the presence of benzene, total arsenic, chromium, lead, and mercury contamination that exceeds the applicable RSRs. Five (5) Areas of Environmental Concern (AOECs), two (2) groundwater AOECs, and nine (9) Low-Level Areas of Environmental Concern (LLAOECs) have been identified within the project corridor. Special considerations for treatment/disposal, dewatering activities, 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:
Cindy Knight Logical Env. Solutions	David R. Stock, P.E. Program Manager	Jane Witherell, P.E., L.E.P. Principal Engineer

TABLES

TABLE 1(a): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-1 0-0.6m 0'-2'	GP-2 0-0.6m 0'-2'	GP-3 0-0.9m 0'-3'	GP-4 0-0.9m 0'-3'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	21	120	350	86	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)						
Naphthalene	BDL	0.013	0.0083	0.038	56 ppm	1,000/2,500 ppm
PAHs - EPA Method 8270 (ppm)						
Acenaphthene	BDL	0.21	0.39	BDL	84 ppm	1,000/2,500 ppm
Acenaphthylene	BDL	0.99	1.2	0.55	84 ppm	1,000/2,500 ppm
Anthracene	BDL	0.88	1.1	0.45	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.29	***2.1***	***1.7***	***2.0***	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	0.31	***2.5***	***2.1***	***2.1***	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	0.3	***2.7***	***2.0***	***2.2***	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	0.26	***1.6***	***1.3***	***1.3***	**1 ppm**	8.4/78 ppm
Benzo(g,h,i)perylene	BDL	1.6	1.5	1.1	42 ppm	1,000/2,500 ppm
Chrysene	0.33	***2.4***	***1.9***	***1.9***	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	BDL	0.32	0.33	BDL	1 ppm	1/1 ppm
Fluoranthene	0.49	3.8	2.7	3.3	56 ppm	1,000/2,500 ppm
Fluorene	BDL	0.43	0.55	BDL	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BDL	***1.4***	***1.2***	***1.1***	**1 ppm**	**1**/7.8 ppm
1-Methylnaphthalene	BDL	0.39	0.54	BDL	No Standard	No Standard
2-Methylnaphthalene	BDL	0.19	0.26	BDL	9.8 ppm	474/2,500 ppm
Naphthalene	BDL	0.46	0.8	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	0.2	1.4	2.4	1.0	40 ppm	1,000/2,500 ppm
Pyrene	0.56	4.0	3.0	3.3	40 ppm	1,000/2,500 ppm
Total PAHs	2.74	27.37	24.97	20.3		
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	BDL	6.11	BDL		10/10 ppm
Barium	117	54.9	66.9	83.1		4,700/140,000 ppm
Chromium	45.0	21.3	28.0	16.3		100/100 ppm
Lead	18.5	78.7	72.7	120		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0354	0.0147	0.0499	0.0173	10.0 ppm	
Chromium	BDL	BDL	0.0056	BDL	0.5 ppm	
Lead	BDL	0.0148	0.0376	0.0348	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
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-5 0.6-1.2m 2'-4'	GP-6 0-0.9m 0'-3'	GP-7 0.6-1.2m 2'-4'	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)	340	***1,100***	37	60	2,500 ppm	**500**/2,500 ppm
VOCs - EPA Method 8260 (ppm)						
Naphthalene	0.14	0.13	BDL	BDL	56 ppm	1,000/2,500 ppm
PAHs - EPA Method 8270 (ppm)						
Acenaphthene	BDL	0.36	BDL	BDL	84 ppm	1,000/2,500 ppm
Acenaphthylene	1.1	4.7	0.25	0.23	84 ppm	1,000/2,500 ppm
Anthracene	0.72	3.7	0.21	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	***1.9***	***10.0***	0.48	0.27	**1 ppm**	**1/7.8 ppm**
Benzo(a)pyrene	***2.4***	***11.0***	0.45	0.29	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	***2.3***	***12.0***	0.46	0.26	**1 ppm**	**1/7.8 ppm**
Benzo(k)fluoranthene	***1.6***	***6.2***	0.3	BDL	**1 ppm**	8.4/78 ppm
Benzo(g,h,i)perylene	1.7	5.6	0.4	BDL	42 ppm	1,000/2,500 ppm
Chrysene	***2.2***	***11.0***	0.43	0.3	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	BDL	***1.1***	BDL	BDL	**1 ppm**	**1/1 ppm**
Fluoranthene	3.2	17.0	0.76	0.43	56 ppm	1,000/2,500 ppm
Fluorene	0.3	1.3	BDL	BDL	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	***1.4***	***5.5***	0.33	BDL	**1 ppm**	**1**/7.8 ppm
1-Methylnaphthalene	BDL	0.52	BDL	BDL	No Standard	No Standard
2-Methylnaphthalene	BDL	0.45	BDL	BDL	9.8 ppm	474/2,500 ppm
Naphthalene	0.31	0.69	BDL	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	1.2	7.3	0.37	0.21	40 ppm	1,000/2,500 ppm
Pyrene	3.5	19.0	0.7	0.48	40 ppm	1,000/2,500 ppm
Total PAHs	23.83	117.42	5.14	2.47		
Total RCRA 8 Metals (ppm)						
Arsenic	5.75	6.65	3.97	BDL		10/10 ppm
Barium	84.7	55.9	59.9	48.7		4,700/140,000 ppm
Chromium	22.7	17.9	21.7	14.9		100/100 ppm
Lead	128	144	26.4	69.2		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0223	0.027	0.0211	0.0207	10.0 ppm	
Lead	0.0231	0.0172	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(c): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-9 0-0.6m 0'-2'	GP-10 0-0.6m 0'-2'	GP-11 1.2-2.4m 4'-8'	GP-12 0-0.9m 0'-3'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	40	80	BDL	63	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	BDL	0.14	BDL	0.1	84 ppm	1,000/2,500 ppm
Anthracene	BDL	0.12	BDL	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.19	0.65	BDL	0.21	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.24	0.73	BDL	0.24	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.32	***1.1***	BDL	0.32	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	0.13	0.39	BDL	0.13	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	0.13	0.37	BDL	0.14	42 ppm	1,000/2,500 ppm
Chrysene	0.22	0.69	BDL	0.24	1 ppm	84/780 ppm
Dibenz(a,h)anthracene	BDL	0.096	BDL	BDL	1 ppm	1/1 ppm
Fluoranthene	0.35	1.4	BDL	0.41	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.1	0.35	BDL	0.12	1 ppm	1/7.8 ppm
Phenanthrene	0.12	0.46	BDL	0.17	40 ppm	1,000/2,500 ppm
Pyrene	0.33	1.2	BDL	0.39	40 ppm	1,000/2,500 ppm
Total PAHs	2.13	7.7	BDL	2.47		
Total RCRA 8 Metals (ppm)						
Barium	173	79.1	44.4	79.8		4,700/140,000 ppm
Chromium	33.6	20.9	15.3	18.1		100/100 ppm
Lead	15.1	83.2	37.9	11.2		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	BDL	0.0158	BDL	10.0 ppm	
Chromium	BDL	BDL	BDL	0.0051	0.5 ppm	
Lead	BDL	0.008	0.0181	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(d): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-13 0-0.9m 0'-3'	GP-14 0-0.6m 0'-2'	GP-15 0.6-1.2m 2'-4'	GP-16 1.2-1.8m 4'-6'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	72	26	370	***1,400***	2,500 ppm	**500**/2,500 ppm
VOCs - EPA Method 8260 (ppm)						
Naphthalene	BDL	BDL	BDL	0.021	56 ppm	1,000/2,500 ppm
PAHs - EPA Method 8270 (ppm)						
Acenaphthene	BDL	BDL	BDL	1.3	84 ppm	1,000/2,500 ppm
Acenaphthylene	0.29	BDL	1.6	7.9	84 ppm	1,000/2,500 ppm
Anthracene	0.12	BDL	1.2	7.0	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.48	BDL	***4.4***	***15.0***	**1 ppm**	**1/7.8 ppm**
Benzo(a)pyrene	0.6	BDL	***4.8***	***15.0***	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	0.83	BDL	***5.0***	***15.0***	**1 ppm**	**1/7.8 ppm**
Benzo(k)fluoranthene	0.29	BDL	***3.0***	***9.3***	**1 ppm**	**8.4**/78 ppm
Benzo(g,h,i)perylene	0.36	BDL	2.8	7.2	42 ppm	1,000/2,500 ppm
Chrysene	0.59	BDL	***5.0***	***16.0***	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	BDL	BDL	0.54	***2.1***	**1 ppm**	**1/1 ppm**
Fluoranthene	0.99	BDL	8.2	24.0	56 ppm	1,000/2,500 ppm
Fluorene	BDL	BDL	BDL	3.0	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.29	BDL	***2.7***	***7.0***	**1 ppm**	**1**/7.8 ppm
1-Methylnaphthalene	BDL	BDL	BDL	1.5	No Standard	No Standard
2-Methylnaphthalene	BDL	BDL	BDL	0.77	9.8 ppm	474/2,500 ppm
Naphthalene	BDL	BDL	0.23	1.1	56 ppm	1,000/2,500 ppm
Phenanthrene	0.38	BDL	2.8	15.0	40 ppm	1,000/2,500 ppm
Pyrene	0.95	BDL	8.3	29.0	40 ppm	1,000/2,500 ppm
Total PAHs	6.17	BDL	50.57	177.17		
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	BDL	5.2	4.13		10/10 ppm
Barium	78.0	149	68.6	50.3		4,700/140,000 ppm
Chromium	19.3	39.3	18.0	16.8		100/100 ppm
Lead	18.8	23.7	109	93.8		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.047	BDL	0.0113	0.0511	10.0 ppm	
Chromium	0.0081	0.006	BDL	BDL	0.5 ppm	
Lead	0.0091	0.0066	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(e): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-17 0-0.6m 0'-2'	GP-18 0.6-1.2m 2'-4'	GP-19 0.6-1.2m 2'-4'	GP-20 0.6-1.2m 2'-4'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	100	140	BDL	BDL	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)						
Naphthalene	0.0071	BDL	BDL	BDL	56 ppm	1,000/2,500 ppm
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	0.19	BDL	BDL	BDL	84 ppm	1,000/2,500 ppm
Anthracene	0.22	0.34	BDL	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.86	***1.6***	BDL	BDL	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	0.97	***1.8***	BDL	BDL	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	***1.4***	***2.4***	BDL	BDL	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	0.44	0.76	BDL	BDL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	0.91	1.2	BDL	BDL	42 ppm	1,000/2,500 ppm
Chrysene	0.94	***1.7***	BDL	BDL	**1 ppm**	84/780 ppm
Fluoranthene	2.0	3.6	BDL	BDL	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.58	0.95	BDL	BDL	1 ppm	1/7.8 ppm
Phenanthrene	0.8	1.6	BDL	BDL	40 ppm	1,000/2,500 ppm
Pyrene	1.7	3.2	BDL	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	11.01	19.15	BDL	BDL		
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	BDL	BDL	5.83		10/10 ppm
Barium	85.7	49.7	67.3	92.6		4,700/140,000 ppm
Chromium	25.6	18.3	20.6	28.8		100/100 ppm
Lead	31.5	34.5	10.6	20.0		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	BDL	BDL	0.017	10.0 ppm	
Lead	BDL	0.0077	BDL	0.0078	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(f): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-21 0-0.6m 0'-2'	GP-22 0.6-1.2m 2'-4'	GP-23 0.6-1.2m 2'-4'	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)	48	84	210	79	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	BDL	BDL	0.28	0.18	84 ppm	1,000/2,500 ppm
Anthracene	BDL	BDL	BDL	0.29	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	BDL	BDL	***3.4***	***1.1***	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	BDL	BDL	***2.7***	***1.2***	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	BDL	BDL	***4.7***	***1.5***	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	BDL	BDL	***2.1***	0.51	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BDL	BDL	1.5	0.68	42 ppm	1,000/2,500 ppm
Chrysene	BDL	BDL	***3.9***	***1.3***	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	BDL	BDL	0.45	BDL	1 ppm	1/1 ppm
Fluoranthene	BDL	BDL	3.9	2.4	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BDL	BDL	***1.6***	0.56	**1 ppm**	**1**/7.8 ppm
Phenanthrene	BDL	BDL	0.34	1.3	40 ppm	1,000/2,500 ppm
Pyrene	BDL	BDL	3.5	2.0	40 ppm	1,000/2,500 ppm
Total PAHs	BDL	BDL	28.37	13.02		
Total RCRA 8 Metals (ppm)						
Arsenic	7.22	7.38	5.8	BDL		10/10 ppm
Barium	60.2	76.4	46.2	65.6		4,700/140,000 ppm
Cadmium	BDL	BDL	BDL	0.629		34/1,000 ppm
Chromium	23.4	24.8	18.6	31.1		100/100 ppm
Lead	24.0	30.7	20.2	29.4		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0446	0.0202	0.0389	BDL	10.0 ppm	
Lead	0.0304	0.0311	0.0322	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(g): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-25 0-0.6m 0'-2'	GP-26 1.2-1.8m 4'-6'	GP-27 0-0.9m 0'-3'	GP-28 0-0.9m 0'-3'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	190	22	25	47	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	0.4	BDL	BDL	BDL	84 ppm	1,000/2,500 ppm
Anthracene	0.31	BDL	BDL	0.15	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	***1.3***	BDL	0.14	0.4	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	***1.5***	BDL	0.15	0.51	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	***2.1***	BDL	0.22	0.71	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	0.65	BDL	BDL	0.26	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	1.1	BDL	BDL	0.27	42 ppm	1,000/2,500 ppm
Chrysene	***1.5***	BDL	0.15	0.44	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	BDL	BDL	BDL	0.098	1 ppm	1/1 ppm
Fluoranthene	2.2	BDL	0.28	0.84	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.76	BDL	BDL	0.25	1 ppm	1/7.8 ppm
Phenanthrene	0.83	BDL	0.11	0.49	40 ppm	1,000/2,500 ppm
Pyrene	2.0	BDL	0.24	0.71	40 ppm	1,000/2,500 ppm
Total PAHs	14.65	BDL	1.29	5.13		
Total RCRA 8 Metals (ppm)						
Barium	33.0	173	151	128		4,700/140,000 ppm
Chromium	13.1	30.2	26.7	23.7		100/100 ppm
Lead	93.5	8.68	34.8	26.3		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	0.0484	BDL	BDL	10.0 ppm	
Chromium	BDL	0.0098	BDL	BDL	0.5 ppm	
Lead	0.0432	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 1(h): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-29 0-0.9m 0'-3'	GP-30 0-0.9m 0'-3'	GP-31 0-0.9m 0'-3'	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)	180	270	110	95	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	BDL	84 ppm	1,000/2,500 ppm
Anthracene	BDL	0.66	BDL	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	***1.5***	***1.4***	BDL	0.21	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	***1.5***	***1.4***	BDL	0.24	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	***2.0***	***1.7***	BDL	0.28	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	0.93	0.79	BDL	BDL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	1.0	0.87	BDL	BDL	42 ppm	1,000/2,500 ppm
Chrysene	***1.8***	***1.7***	BDL	0.21	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	BDL	BDL	BDL	BDL	1 ppm	1/1 ppm
Fluoranthene	3.0	3.4	BDL	0.31	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.82	0.84	BDL	BDL	1 ppm	1/7.8 ppm
Phenanthrene	1.4	3.3	BDL	BDL	40 ppm	1,000/2,500 ppm
Pyrene	2.6	2.9	BDL	0.36	40 ppm	1,000/2,500 ppm
Total PAHs	16.55	18.96	BDL	1.61		
Total RCRA 8 Metals (ppm)						
Arsenic	5.75	9.5	9.25	BDL		10/10 ppm
Barium	217	194	77.8	84.7		4,700/140,000 ppm
Cadmium	BDL	0.711	BDL	0.601		34/1,000 ppm
Chromium	23.6	33.5	33.2	38.6		100/100 ppm
Lead	***586***	475	356	4.61		**500**/1,000 ppm
Mercury	0.363	0.705	0.457	BDL		20/610 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0371	0.0209	0.0173	BDL	10.0 ppm	
Lead	0.0225	0.0304	0.0104	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(i): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-33 0.6-1.2m 2'-4'	GP-34 0-0.6m 0'-2'	GP-35 1.2-1.8m 4'-6'	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)	BDL	320	330	38	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)						
Naphthalene	BDL	0.059	0.51	BDL	56 ppm	1,000/2,500 ppm
PAHs - EPA Method 8270 (ppm)						
Acenaphthene	BDL	BDL	0.24	BDL	84 ppm	1,000/2,500 ppm
Acenaphthylene	BDL	1.5	1.8	BDL	84 ppm	1,000/2,500 ppm
Anthracene	BDL	1.7	2.6	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	BDL	***6.7***	***6.5***	BDL	**1 ppm**	1/7.8 ppm
Benzo(a)pyrene	BDL	***7.7***	***6.7***	BDL	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	BDL	***10.0***	***8.0***	BDL	**1 ppm**	**1/7.8 ppm**
Benzo(k)fluoranthene	BDL	***2.9***	***2.9***	BDL	**1 ppm**	8.4/78 ppm
Benzo(g,h,i)perylene	BDL	4.5	3.9	BDL	42 ppm	1,000/2,500 ppm
Chrysene	BDL	***7.1***	***6.2***	BDL	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	BDL	0.78	***1.1***	BDL	**1 ppm**	**1/1 ppm**
Fluoranthene	BDL	16.0	14.0	BDL	56 ppm	1,000/2,500 ppm
Fluorene	BDL	BDL	1.0	BDL	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BDL	***4.1***	***3.4***	BDL	**1 ppm**	1/7.8 ppm
1-Methylnaphthalene	BDL	BDL	0.43	BDL	No Standard	No Standard
2-Methylnaphthalene	BDL	BDL	0.48	BDL	9.8 ppm	474/2,500 ppm
Naphthalene	BDL	0.6	0.97	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	BDL	6.6	8.2	BDL	40 ppm	1,000/2,500 ppm
Pyrene	BDL	14.0	13.0	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	BDL	84.18	81.42	BDL		
Total RCRA 8 Metals (ppm)						
Barium	57.3	50.3	69.5	76.0		4,700/140,000 ppm
Cadmium	0.762	0.527	0.704	BDL		34/1,000 ppm
Chromium	25.7	17.7	25.6	28.4		100/100 ppm
Lead	9.99	60.8	35.2	16.5		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Chromium	BDL	0.0086	BDL	BDL	0.5 ppm	
Lead	BDL	0.0381	0.0078	0.0113	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(j): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-37 0.6-1.2m 2'-4'	GP-38 0-0.6m 0'-2'	GP-39 0.6-1.2m 2'-4'	GP-40 1.2-2.4m 4'-8'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	120	70	37	54	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)						
Naphthalene	BDL	0.13	0.28	BDL	56 ppm	1,000/2,500 ppm
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	BDL	BDL	0.22	BDL	84 ppm	1,000/2,500 ppm
Anthracene	BDL	BDL	0.31	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	BDL	BDL	0.74	0.29	1 ppm	1/7.8 ppm
Benzo(a)pyrene	BDL	BDL	0.74	0.3	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BDL	BDL	0.88	0.37	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BDL	BDL	0.34	BDL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BDL	BDL	0.44	BDL	42 ppm	1,000/2,500 ppm
Chrysene	BDL	BDL	0.66	0.3	1 ppm	84/780 ppm
Fluoranthene	BDL	BDL	1.6	0.61	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BDL	BDL	0.37	BDL	1 ppm	1/7.8 ppm
Naphthalene	BDL	BDL	0.21	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	BDL	BDL	1.1	0.35	40 ppm	1,000/2,500 ppm
Pyrene	BDL	BDL	1.4	0.6	40 ppm	1,000/2,500 ppm
Total PAHs	BDL	BDL	9.01	2.82		
Total RCRA 8 Metals (ppm)						
Barium	231	59.5	53.0	55.0		4,700/140,000 ppm
Cadmium	0.76	0.729	BDL	BDL		34/1,000 ppm
Chromium	50.1	29.5	18.3	19.6		100/100 ppm
Lead	8.34	17.2	26.3	12.2		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Chromium	BDL	0.0089	0.0067	BDL	0.5 ppm	
Lead	BDL	0.0588	0.0307	0.0126	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(k): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-41 0-0.9m 0'-3'	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)	BDL	100	97	78	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		
Total RCRA 8 Metals (ppm)						
Arsenic	5.38	3.75	4.2	4.71		10/10 ppm
Barium	199	79.7	115	133		4,700/140,000 ppm
Chromium	29.2	65.3	29.7	32.3		100/100 ppm
Lead	368	159	150	172		500/1,000 ppm
Mercury	1.41	BDL	BDL	BDL		20/610 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0601	0.0234	0.0232	0.0225	10.0 ppm	
Lead	0.0429	0.0237	0.0123	0.0092	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
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-45 0-0.6m 0'-2'	GP-46 0-0.9m 0'-3'	GP-47 0-0.6m 0'-2'	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	66	65	94	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	BDL	BDL	0.29	BDL	84 ppm	1,000/2,500 ppm
Benzo(a)anthracene	BDL	0.4	0.51	BDL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	BDL	0.46	0.61	BDL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BDL	0.53	0.69	BDL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BDL	0.35	0.46	BDL	1 ppm	8.4/78 ppm
Benzo(g,h,i)perylene	BDL	1.0	0.43	BDL	42 ppm	1,000/2,500 ppm
Chrysene	BDL	0.5	0.69	BDL	1 ppm	84/780 ppm
Fluoranthene	BDL	0.7	1.1	BDL	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BDL	0.64	0.33	BDL	1 ppm	1/7.8 ppm
Phenanthrene	BDL	0.32	0.58	BDL	40 ppm	1,000/2,500 ppm
Pyrene	BDL	0.8	1.2	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	BDL	5.7	6.89	BDL		
Total RCRA 8 Metals (ppm)						
Arsenic	3.8	BDL	BDL	BDL		10/10 ppm
Barium	77.8	63.7	6.21	40.0		4,700/140,000 ppm
Chromium	36.4	9.78	12.4	16.1		100/100 ppm
Lead	187	71.4	47.0	33.8		500/1,000 ppm
Mercury	BDL	1.54	1.92	BDL		20/610 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	0.0104	BDL	BDL	BDL	10.0 ppm	
Lead	0.0116	BDL	BDL	0.0189	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
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-49 0-0.6m 0'-2'	GP-50 0-0.6m 0'-2'	GP-51 0-0.9m 0'-3'	GP-52 0-0.9m 0'-3'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	110	170	34	290	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	0.5	0.44	BDL	BDL	84 ppm	1,000/2,500 ppm
Anthracene	0.47	0.36	BDL	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	***1.9***	***1.9***	BDL	0.84	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	***2.2***	***2.1***	BDL	0.87	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	***2.9***	***2.1***	BDL	***1.2***	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	***1.1***	***1.3***	BDL	0.66	**1 ppm**	8.4/78 ppm
Benzo(g,h,i)perylene	1.3	1.6	BDL	BDL	42 ppm	1,000/2,500 ppm
Chrysene	***2.2***	***2.3***	BDL	***1.3***	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	0.31	BDL	BDL	BDL	1 ppm	1/1 ppm
Fluoranthene	4.5	3.1	BDL	1.3	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	***1.2***	***1.4***	BDL	BDL	**1 ppm**	**1**/7.8 ppm
1-Methylnaphthalene	BDL	BDL	BDL	2.1	No Standard	No Standard
2-Methylnaphthalene	BDL	BDL	BDL	2.4	9.8 ppm	474/2,500 ppm
Naphthalene	0.17	BDL	BDL	1.0	56 ppm	1,000/2,500 ppm
Phenanthrene	2.1	1.9	BDL	0.87	40 ppm	1,000/2,500 ppm
Pyrene	4.1	3.0	BDL	1.7	40 ppm	1,000/2,500 ppm
Total PAHs	24.95	21.5	BDL	14.24		
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	3.86	BDL	BDL		10/10 ppm
Barium	56.2	75.3	52.4	112		4,700/140,000 ppm
Cadmium	0.763	BDL	BDL	BDL		34/1,000 ppm
Chromium	16.6	33.7	23.9	19.6		100/100 ppm
Lead	226	186	41.9	270		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	0.0141	BDL	BDL	10.0 ppm	
Lead	0.1	0.0197	BDL	0.0243	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(n): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-53 0.6-1.2m 2'-4'	GP-54 0.6-1.2m 2'-4'	GP-55 0.6-1.2m 2'-4'	GP-56 0-0.9m 0'-3'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	90	52	150	***530***	2,500 ppm	**500**/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	BDL	BDL	0.72	0.32	84 ppm	1,000/2,500 ppm
Anthracene	BDL	BDL	0.42	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.46	BDL	***1.4***	0.6	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	0.56	BDL	***1.8***	0.71	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	0.7	BDL	***2.0***	0.92	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	0.41	BDL	***1.2***	0.48	**1 ppm**	8.4/78 ppm
Benzo(g,h,i)perylene	0.38	BDL	1.1	0.54	42 ppm	1,000/2,500 ppm
Chrysene	0.58	BDL	***1.6***	0.78	**1 ppm**	84/780 ppm
Fluoranthene	0.86	BDL	2.3	1.2	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.33	BDL	0.96	0.44	1 ppm	1/7.8 ppm
Phenanthrene	0.38	BDL	0.89	0.75	40 ppm	1,000/2,500 ppm
Pyrene	0.9	BDL	2.6	1.3	40 ppm	1,000/2,500 ppm
Total PAHs	5.56	BDL	16.99	8.04		
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	BDL	BDL	BDL		10/10 ppm
Barium	114	158	89.2	400		4,700/140,000 ppm
Cadmium	BDL	BDL	BDL	2.54		34/1,000 ppm
Chromium	25.8	30.1	20.0	35.9		100/100 ppm
Lead	232	86.3	347	***701***		**500**/1,000 ppm
Mercury	BDL	BDL	0.429	0.268		20/610 ppm
Silver	BDL	BDL	BDL	3.5		340/10,000 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	BDL	BDL	0.0416	10.0 ppm	
Lead	0.0139	BDL	0.0286	0.037	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
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-57 0-0.6m 0'-2'	GP-58 0.6-1.2m 2'-4'	GP-59 0-0.9m 0'-3'	GP-60 0-0.9m 0'-3'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	210	160	190	180	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	0.53	0.39	0.36	BDL	84 ppm	1,000/2,500 ppm
Anthracene	0.46	BDL	0.26	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	***1.8***	***1.1***	0.9	0.65	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	***2.1***	***1.3***	***1.1***	0.78	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	***2.4***	***1.6***	***1.1***	1.0	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	***1.8***	***1.1***	0.76	0.64	**1 ppm**	8.4/78 ppm
Benzo(g,h,i)perylene	1.5	1.0	0.76	0.56	42 ppm	1,000/2,500 ppm
Chrysene	***2.2***	***1.3***	***1.1***	0.83	**1 ppm**	84/780 ppm
Fluoranthene	3.9	2.3	1.5	1.3	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	***1.2***	0.86	0.65	0.52	**1 ppm**	**1**/7.8 ppm
Phenanthrene	1.9	0.9	0.91	0.59	40 ppm	1,000/2,500 ppm
Pyrene	3.8	2.3	1.7	1.3	40 ppm	1,000/2,500 ppm
Total PAHs	23.59	14.15	11.1	8.17		
Total RCRA 8 Metals (ppm)						
Barium	79.9	103	107	173		4,700/140,000 ppm
Cadmium	BDL	BDL	1.39	3.07		34/1,000 ppm
Chromium	21.9	24.9	16.6	22.8		100/100 ppm
Lead	257	287	412	***588***		**500**/1,000 ppm
Mercury	BDL	BDL	0.438	0.752		20/610 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	BDL	0.0377	BDL	10.0 ppm	
Lead	0.0173	0.0079	0.0554	0.0411	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
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-61 0-0.6m 0'-2'	GP-62 0.6-1.2m 2'-4'	GP-63 0-0.6m 0'-2'	GP-64 0-0.9m 0'-3'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	160	110	51	55	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	0.3	1.3	BDL	BDL	84 ppm	1,000/2,500 ppm
Anthracene	BDL	2.2	BDL	BDL	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.96	***4.1***	0.36	0.44	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	***1.1***	***4.0***	0.33	0.36	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	***1.4***	***3.7***	0.36	0.35	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	0.92	***2.4***	0.2	0.25	**1 ppm**	8.4/78 ppm
Benzo(g,h,i)perylene	0.74	2.3	0.2	BDL	42 ppm	1,000/2,500 ppm
Chrysene	***1.2***	***3.9***	0.28	0.36	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	BDL	0.41	BDL	BDL	1 ppm	1/1 ppm
Fluoranthene	1.8	9.0	0.49	0.65	56 ppm	1,000/2,500 ppm
Fluorene	BDL	0.38	BDL	BDL	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	0.7	***2.1***	0.22	BDL	**1 ppm**	**1**/7.8 ppm
Naphthalene	BDL	0.3	BDL	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	0.68	6.3	0.2	0.23	40 ppm	1,000/2,500 ppm
Pyrene	1.8	8.2	0.5	0.68	40 ppm	1,000/2,500 ppm
Total PAHs	11.6	50.59	3.14	3.32		
Total RCRA 8 Metals (ppm)						
Arsenic	BDL	3.9	6.05	5.55		10/10 ppm
Barium	102	63.8	104	152		4,700/140,000 ppm
Chromium	25.7	13.8	19.0	20.1		100/100 ppm
Lead	315	185	246	280		500/1,000 ppm
Mercury	0.429	BDL	0.893	0.328		20/610 ppm
SPLP RCRA 8 Metals (ppm)						
Barium	BDL	0.0122	BDL	BDL	10.0 ppm	
Lead	0.0083	0.0164	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(q): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-65 0-0.9m 0'-3'	GP-66 0-0.6m 0'-2'	GP-67 0-0.9m 0'-3'	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)	64	BDL	180	300	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Acenaphthylene	BDL	BDL	0.71	1.4	84 ppm	1,000/2,500 ppm
Anthracene	BDL	BDL	0.54	2.0	400 ppm	1,000/2,500 ppm
Benzo(a)anthracene	0.36	BDL	***2.0***	***5.5***	**1 ppm**	**1**/7.8 ppm
Benzo(a)pyrene	0.31	BDL	***2.3***	***5.0***	**1 ppm**	**1/1 ppm**
Benzo(b)fluoranthene	0.39	BDL	***2.4***	***4.9***	**1 ppm**	**1**/7.8 ppm
Benzo(k)fluoranthene	0.17	BDL	***1.9***	***3.2***	**1 ppm**	8.4/78 ppm
Benzo(g,h,i)perylene	BDL	BDL	1.4	2.3	42 ppm	1,000/2,500 ppm
Chrysene	0.33	BDL	***2.3***	***5.2***	**1 ppm**	84/780 ppm
Dibenz(a,h)anthracene	BDL	BDL	BDL	0.56	1 ppm	1/1 ppm
Fluoranthene	0.55	0.14	3.6	11.0	56 ppm	1,000/2,500 ppm
Fluorene	BDL	BDL	BDL	0.53	56 ppm	1,000/2,500 ppm
Indeno(1,2,3-cd)pyrene	BDL	BDL	***1.3***	***2.3***	**1 ppm**	**1**/7.8 ppm
Phenanthrene	0.25	BDL	1.4	6.1	40 ppm	1,000/2,500 ppm
Pyrene	0.58	0.13	3.7	11.0	40 ppm	1,000/2,500 ppm
Total PAHs	2.94	0.27	23.55	60.99		
Total RCRA 8 Metals (ppm)						
Barium	87.5	83.9	72.2	46.5		4,700/140,000 ppm
Chromium	16.2	21.5	20.2	23.8		100/100 ppm
Lead	223	83.3	189	94.1		500/1,000 ppm
Mercury	0.336	BDL	BDL	BDL		20/610 ppm
SPLP RCRA 8 Metals (ppm)						
Chromium	BDL	0.01	BDL	BDL	0.5 ppm	
Lead	BDL	BDL	0.0095	0.0138	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(r): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-69 0-0.6m 0'-2'	GP-70 0-0.6m 0'-2'	GP-71 0.6-1.2m 2'-4'	GP-72 1.2-2.4m 4'-8'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	53	25	BDL	20	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL	BDL	BDL	BDL		
PAHs - EPA Method 8270 (ppm)						
Benzo(a)anthracene	0.31	BDL	BDL	BDL	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.28	BDL	BDL	BDL	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.29	BDL	BDL	BDL	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	0.23	BDL	BDL	BDL	1 ppm	8.4/78 ppm
Chrysene	0.34	BDL	BDL	BDL	1 ppm	84/780 ppm
Fluoranthene	0.52	0.23	BDL	BDL	56 ppm	1,000/2,500 ppm
Phenanthrene	0.2	BDL	BDL	BDL	40 ppm	1,000/2,500 ppm
Pyrene	0.52	0.25	BDL	BDL	40 ppm	1,000/2,500 ppm
Total PAHs	2.69	0.48	BDL	BDL		
Total RCRA 8 Metals (ppm)						
Arsenic	4.71	BDL	BDL	7.48		10/10 ppm
Barium	116	65.5	63.3	58.5		4,700/140,000 ppm
Chromium	21.5	17.2	15.4	21.6		100/100 ppm
Lead	267	94.4	49.8	18.3		500/1,000 ppm
Mercury	0.51	BDL	BDL	BDL		20/610 ppm
SPLP RCRA 8 Metals (ppm)						
Chromium	BDL	BDL	0.0111	BDL	0.5 ppm	
Lead	0.0481	0.0383	0.0103	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(s): Results of Geoprobe Boring Soil Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Boring I.D.: Sample Depth:	GP-73 0.6-1.2m 2'-4'	CTDEP Pollutant Mobility Criteria GB Groundwater Area	CTDEP Direct Exposure Criteria Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	24	2,500 ppm	500/2,500 ppm
VOCs - EPA Method 8260 (ppm)	BDL		
PAHs - EPA Method 8270 (ppm)			
Benzo(a)anthracene	0.091	1 ppm	1/7.8 ppm
Benzo(a)pyrene	0.084	1 ppm	1/1 ppm
Benzo(b)fluoranthene	0.11	1 ppm	1/7.8 ppm
Fluoranthene	0.1	56 ppm	1,000/2,500 ppm
Pyrene	0.092	40 ppm	1,000/2,500 ppm
Total PAHs	0.477		
Total RCRA 8 Metals (ppm)			
Barium	64.3		4,700/140,000 ppm
Chromium	16.3		100/100 ppm
Lead	39.1		500/1,000 ppm
SPLP RCRA 8 Metals (ppm)			
Chromium	0.0054	0.5 ppm	
Lead	0.0124	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: Results of Groundwater Grab Sample Analyses
Interstate 95 Improvements
Norwalk, Connecticut

Sample I.D.:	GP-11 GW	GP-23 GW	CTDEP Surface Water Protection Criteria	CTDEP Volatilization Criteria: Residential/Commercial & Industrial
TPH – CT ETPH (ppm)	BDL	BDL	None Established	
VOCs – EPA Method 8260 (ppb)				
Methyl Tertiary Butyl Ether	3.4	BDL	None Established	50,000/50,000 ppb
PAHs – EPA Method 8270 (ppb)	BDL	BDL		
Total RCRA 8 Metals – ppm				Not Applicable
Arsenic	***0.118***	BDL	**0.004 ppm**	
Barium	1.56	0.0419	None Established	
Chromium	***0.4***	BDL	**0.11 ppm**	
Lead	***0.298***	0.0078	**0.013 ppm**	
Mercury	***0.0007***	BDL	**0.0004 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.

APPENDIX A
Boring Logs

Date Started: 4/22/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-1
Date Finished: 4/22/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, 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'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	PID = 0 ppm
0.6	2'		
0.9	3'		
1.2	4'	Refusal on Gray GNEISS at 0.6 m (2')	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/22/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-2
Date Finished: 4/22/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, 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'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	PID = 0 ppm
0.6	2'		
0.9	3'		
1.2	4'	Refusal on Gray GNEISS at 0.6 m (2')	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/22/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-3
Date Finished: 4/22/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, 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 - 0.9 m (0' - 3'): PID = 0.7 ppm
0.6	2'		
0.9	3'	Refusal on Gray GNEISS at 0.9 m (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'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/22/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-4
Date Finished: 4/22/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'		PID = 0.6 ppm
0.6	2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3')	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/22/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-5
Date Finished: 4/22/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, 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
		Brown SILT, trace fine Sand & fine to coarse Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
			PID = 0.7 ppm
0.9	3'		
		Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.2	4'		
1.5	5'		
1.8	6'	Refusal on Gray GNEISS at 1.2 m (4')	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/22/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-6
Date Finished: 4/22/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'		PID = 0.4 ppm
0.6	2'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3')	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/22/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-7
Date Finished: 4/22/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		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 = 0.2 ppm
1.2	4'		
1.5	5'		
1.8	6'	Refusal on Gray GNEISS at 1.2 m (4')	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/22/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-8
Date Finished: 4/22/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.2 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 = 0.3 ppm
1.2	4'		
1.5	5'		
1.8	6'	Refusal on Gray GNEISS at 1.2 m (4')	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/27/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-9
Date Finished: 1/27/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'	Dark-Brown SILT, little fine Sand, trace fine to coarse Gravel, Cobble & Brick	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.3 ppm
0.6	2'	Refusal on CONCRETE at 0.6 m (2')	
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'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/27/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-10
Date Finished: 1/27/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'	Dark-Brown SILT, little fine Sand, trace fine to coarse Gravel, Cobble & Brick	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.9 ppm
0.6	2'		
0.9	3'		
1.2	4'	Refusal on CONCRETE at 0.6 m (2')	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-11
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel - 10 cm (4")	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to medium SAND, trace Asphalt & fine to coarse Gravel	PID = 0.1 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.8 ppm
1.2	4'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
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'	Brown coarse SAND, trace fine to coarse Gravel	
2.74	9'	Gray fine to coarse SAND, little fine Gravel, trace Cobble (WET)	
3	10'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
3.4	11'	Refusal on Gray GNEISS at 2.74 m (9')	PID = 2.3 ppm
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/27/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-12
Date Finished: 1/27/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
			Macro Core Sample 0 - 0.9 m (0' - 3'):
			PID = 0.2 ppm
0.3	1'	Brown fine SAND & SILT, little fine to coarse Gravel, trace Cobble & Asphalt	
0.6	2'		
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3')	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/27/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-13
Date Finished: 1/27/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
			Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'		PID = 0.3 ppm
		Brown fine SAND & SILT, little fine to coarse Gravel, trace Cobble & Asphalt	
0.6	2'		
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3')	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/27/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-14
Date Finished: 1/27/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, 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 = 0.2 ppm
0.6	2'		
0.9	3'	Brown fine SAND, little Silt & fine to coarse Gravel, trace Cobble & Asphalt	Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.1 ppm
1.2	4'		
1.5	5'		Macro Core Sample 1.2 - 1.5m (4' - 5'): PID = 0 ppm
1.8	6'		
2.1	7'	Refusal on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/22/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-15
Date Finished: 4/22/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
			Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.4 ppm
		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 = 0.5 ppm
		Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.2	4'		
1.5	5'		
1.8	6'	Refusal on Gray GNEISS at 1.2 m (4')	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/22/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-16
Date Finished: 4/22/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
			Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.4 ppm
0.6	2'	Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.4 ppm
1.2	4'		
1.5	5'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0.5 ppm
2.1	7'		
2.4	8'	Refusal on Gray GNEISS at 1.8 m (6')	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-17
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, 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'		PID = 0.7 ppm
0.6	2'	Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.5 ppm
1.2	4'		
		Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.5	5'		Macro Core Sample 1.2 - 1.5m (4' - 5'):
1.8	6'		PID = 0 ppm
2.1	7'	Refusal on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-18
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, 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'		PID = 0.2 ppm
0.6	2'	Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.6 ppm
1.2	4'		
		Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.5	5'		Macro Core Sample 1.2 - 1.5m (4' - 5'):
1.8	6'		PID = 0 ppm
2.1	7'	Refusal on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-19
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, 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'		PID = 0 ppm
0.6	2'	Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0 ppm
1.2	4'		
		Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.5	5'		
			Macro Core Sample 1.2 - 1.5m (4' - 5'):
1.8	6'		PID = 0 ppm
2.1	7'	Refusal on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-20
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.3 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 = 0.7 ppm
1.2	4'		
1.5	5'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'	Greenish-Gray SILT, little fine to coarse Gravel & Cobble, trace fine Sand	PID = 0.6 ppm
2.1	7'		
2.4	8'		
2.74	9'		
3	10'	Refusal on Gray GNEISS at 2.4 m (8')	
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-21
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel - 10 cm (4")	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to medium SAND, trace Asphalt & fine to coarse Gravel	PID = 1.1 ppm
0.6	2'		
			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 = 0.3 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 on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-22
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to medium SAND, trace Asphalt, Silt & fine to coarse Gravel	PID = 0.4 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'	Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	PID = 0.5 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 on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-23
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to medium SAND, trace Asphalt, Silt & fine to coarse Gravel	PID = 0.7 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.1 ppm
1.2	4'		
1.5	5'	Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
2.1	7'		PID = 0.3 ppm
2.4	8'		
2.74	9'	Gray fine to coarse SAND, little fine Gravel, trace Cobble (WET)	
3	10'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
3.4	11'	Refusal on Gray GNEISS at 2.74 m (9')	PID = 0.2 ppm
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		

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

Date Started: 4/21/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-24
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown fine SAND, little Silt, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.7 ppm
0.6	2'	Dark-Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 1.4 ppm
1.2	4'		
1.5	5'		
1.8	6'	Refusal on Gray GNEISS at 1.2 m (4')	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-25
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		ASPHALT (10 cm/4")	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Gray-Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	PID = 0.7 ppm
0.6	2'	Refusal on Gray GNEISS at 0.6 m (2')	
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'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/27/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-26
Date Finished: 1/27/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, 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
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.1 ppm
		Gray-Brown fine to medium SAND, little Silt, 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 = 0.2 ppm
2.1	7'		
2.4	8'	Refusal on Gray GNEISS at 1.8 m (6')	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/27/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-27
Date Finished: 1/27/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		Dark-Brown fine SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'		PID = 0.1 ppm
0.6	2'	Gray fine SAND, little Silt, trace fine to coarse Gravel & Cobble	
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3')	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/27/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-28
Date Finished: 1/27/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'	Dark-Brown fine SAND, little Silt, trace fine to coarse Gravel	Macro Core Sample 0 - 0.9 m (0' - 3'): PID = 0.3 ppm
0.6	2'	Gray fine SAND, little Silt, trace fine to coarse Gravel & Cobble	
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3')	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-29
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'	Brown fine to medium SAND, trace Silt & fine to coarse Gravel	PID = 0.7 ppm
0.6	2'	Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3') - Manual Probe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-30
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'	Brown fine to medium SAND, trace Silt & fine to coarse Gravel	PID = 0.8 ppm
0.6	2'	Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
0.9	3'	Refusal on Gray GNEISS at 0.9 m (3') - Manual Probe	
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'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-31
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown fine SAND, little Silt, trace fine Gravel	Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'		PID = 0.1 ppm
		Brown fine to medium SAND, trace Silt & fine to coarse Gravel	
0.6	2'		
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3') - Manual Probe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-32
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, 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'		PID = 0.1 ppm
0.6	2'	Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0 ppm
1.2	4'		
		Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.5	5'		Macro Core Sample 1.2 - 1.5m (4' - 5'):
1.8	6'		PID = 0 ppm
2.1	7'	Refusal on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-33
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, 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'		PID = 0 ppm
0.6	2'	Brown SILT, trace fine Sand & fine to coarse Gravel	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0 ppm
1.2	4'		
		Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
1.5	5'		
			Macro Core Sample 1.2 - 1.5m (4' - 5'):
1.8	6'		PID = 0 ppm
2.1	7'	Refusal on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-34
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		ASPHALT (10 cm/4")	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Gray-Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	PID = 0.8 ppm
0.6	2'	Refusal on Gray GNEISS at 0.6 m (2')	
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'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-35
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Gray-Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	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'	Brown fine to coarse SAND, little fine to coarse Gravel & Cobble	
1.5	5'		Macro Core Sample 1.2 - 1.8m (4' - 6'):
1.8	6'		PID = 0.2 ppm
2.1	7'		
2.4	8'	Refusal on Gray GNEISS at 1.8 m (6')	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-36
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
0.3	1'		Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0.1 ppm
0.6	2'		
		Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.3 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 on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-37
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		ASPHALT	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'):
		Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
0.9	3'		PID = 0.2 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 on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-38
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		ASPHALT	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'):
		Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
0.9	3'		PID = 0 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 on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-39
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		ASPHALT	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'	Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	PID = 0.1 ppm
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 on Gray GNEISS at 1.8 m (6')	
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-40
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		ASPHALT (7.6 cm/3")	Macro Core Sample 0 - 0.6 m (0' - 2'):
			PID = 0 ppm
0.3	1'	Brown fine to coarse SAND, little fine to coarse Gravel, trace Cobble & Silt	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
		Brown SILT, little fine to coarse Gravel, trace fine Sand	PID = 0.3 ppm
0.9	3'		
1.2	4'	Brown fine SAND, little Silt, trace fine to coarse Gravel	
1.5	5'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 1.5 ppm
2.1	7'	Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
2.4	8'		
2.74	9'		Macro Core Sample 2.4 - 2.74m (8' - 9'):
3	10'		PID = 0.7 ppm
3.4	11'	Refusal on Gray GNEISS at 2.74 m (9')	
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-41
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown fine SAND, little Silt, trace fine Gravel	Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'		PID = 0.2 ppm
		Brown fine to medium SAND, trace Silt & fine to coarse Gravel	
0.6	2'		
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3') - Manual Probe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-42
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown fine SAND, little Silt, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to medium SAND, trace Silt & fine to coarse Gravel	PID = 0.2 ppm
0.6	2'		
0.9	3'		
1.2	4'	Refusal on Gray GNEISS at 0.6 m (2') - Manual Probe	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-43
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown fine SAND, little Silt, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to medium SAND, trace Silt & fine to coarse Gravel	PID = 0.3 ppm
0.6	2'	Refusal on Gray GNEISS at 0.6 m (2') - Manual Probe	
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'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-44
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown fine SAND, little Silt, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to medium SAND, trace Silt & fine to coarse Gravel	PID = 0.2 ppm
0.6	2'		
0.9	3'		
1.2	4'	Refusal on Gray GNEISS at 0.6 m (2') - Manual Probe	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-45
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown fine SAND, little Silt, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to medium SAND, trace Silt & fine to coarse Gravel	PID = 0.4 ppm
0.6	2'	Refusal on Gray GNEISS at 0.6 m (2') - Manual Probe	
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'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-46
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
	1'	Dark-Brown SILT, trace fine to coarse Gravel & Wood	Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3			PID = 0.2 ppm
	2'	Brown fine to coarse SAND, little fine to coarse Gravel & Silt	
0.6			
	3'	Light-Brown SILT, little fine to coarse Gravel & Cobble	
0.9			
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3')	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-47
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		WOODCHIPS (7.6 cm/3")	Macro Core Sample 0 - 0.9 m (0' - 3'):
		Dark-Brown SILT, trace fine to coarse Gravel & Wood	
0.3	1'		PID = 0.3 ppm
		Brown fine to coarse SAND, little fine to coarse Gravel & Silt	
0.6	2'		
		Light-Brown SILT, little fine to coarse Gravel & Cobble	
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3')	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-48
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.2 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
		Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
0.9	3'		PID = 0.4 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 on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/21/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-49
Date Finished: 4/21/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		ASPHALT	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.6 ppm
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
		Brown fine to coarse SAND, little fine to coarse Gravel & Cobble, trace Silt	
0.9	3'		PID = 0.4 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 on Gray GNEISS at 1.5 m (5')	
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/17/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-50
Date Finished: 4/17/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		TOPSOIL - Dark-Brown fine SAND, little Silt, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'	Brown fine to medium SAND, trace Silt & fine to coarse Gravel	PID = 0.7 ppm
0.6	2'	Refusal on Gray GNEISS at 0.6 m (2') - Manual Probe	
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'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-51
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'		PID = 0.1 ppm
		Brown fine to medium SAND, trace Asphalt, Silt & fine to coarse Gravel	
0.6	2'		
		Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3') - Manual Probe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-52
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'		PID = 0.7 ppm
		Brown fine to medium SAND, trace Asphalt, Silt & fine to coarse Gravel	
0.6	2'		
		Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3') - Manual Probe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-53
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.3 ppm
		Brown fine to medium SAND, trace Asphalt, Silt & fine to coarse Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.4 ppm
		Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
1.2	4'		
1.5	5'		
1.8	6'	Refusal on Gray GNEISS at 1.2 m (4') - Manual Probe	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-54
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.1 ppm
		Brown fine to medium SAND, trace Asphalt, Silt & fine to coarse Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.2 ppm
		Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
1.2	4'		
1.5	5'		
1.8	6'	Refusal on Gray GNEISS at 1.2 m (4') - Manual Probe	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-55
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.4 ppm
		Brown fine to medium SAND, trace Asphalt, Silt & fine to coarse Gravel	
0.6	2'		Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.6 ppm
		Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
1.2	4'		
1.5	5'		
1.8	6'	Refusal on Gray GNEISS at 1.2 m (4') - Manual Probe	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-56
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'		PID = 0.5 ppm
		Brown fine to medium SAND, trace Asphalt, Silt & fine to coarse Gravel	
0.6	2'		
		Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3') - Manual Probe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-57
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'		Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.9 ppm
0.6	2'	Brown fine to medium SAND, trace Asphalt, Glass, Silt & fine to coarse Gravel	
0.9	3'		Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.6 ppm
1.2	4'		
1.5	5'		
1.8	6'	Refusal on Gray GNEISS at 1.2 m (4') - Manual Probe	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-58
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.5 ppm
0.6	2'	Brown fine to medium SAND, trace Asphalt, Glass, Silt & fine to coarse Gravel	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.8 ppm
1.2	4'		
1.5	5'		
1.8	6'	Refusal on Gray GNEISS at 1.2 m (4') - Manual Probe	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-59
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
			Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'	Brown fine to medium SAND, trace Asphalt, Silt & fine to coarse Gravel	PID = 0.6 ppm
0.6	2'		
0.9	3'	Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3') - Manual Probe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-60
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
			Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'	Brown fine to medium SAND, trace Asphalt, Silt & fine to coarse Gravel	PID = 0.5 ppm
0.6	2'		
0.9	3'	Brown SILT, little fine to coarse Gravel & Cobble, trace fine Sand	
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3') - Manual Probe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-61
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
0.3	1'	Brown fine to medium SAND, trace Asphalt, Silt & fine to coarse Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0.4 ppm
0.6	2'	Refusal on Gray GNEISS at 0.6 m (2') - Manual Probe	
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'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/22/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-62
Date Finished: 4/22/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		TOPSOIL - Dark-Brown SILT, little fine Sand, trace fine Gravel	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.5 ppm
0.6	2'	Brown fine to medium SAND, trace Asphalt, Glass, Silt & fine to coarse Gravel	Macro Core Sample 0.6 - 1.2 m (2' - 4'):
0.9	3'		PID = 0.8 ppm
1.2	4'		
1.5	5'		
1.8	6'	Refusal on Gray GNEISS at 1.2 m (4')	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/23/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-63
Date Finished: 1/23/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Brown fine to coarse SAND, little fine to coarse Gravel, trace Cobble, Silt & Glass	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0 ppm
		Dark-Brown fine SAND & SILT, little fine to coarse Gravel, trace Brick, Glass & Cobble	
0.6	2'		
0.9	3'		
1.2	4'	Refusal on Gray GNEISS at 0.6 m (2') - Manual Probe	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/23/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-64
Date Finished: 1/23/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
0.3	1'	Brown fine to coarse SAND, little fine to coarse Gravel, trace Cobble & Silt	Macro Core Sample 0 - 0.9 m (0' - 3'): PID = 0 ppm
		Dark-Brown fine SAND & SILT, trace fine to coarse Gravel & Cobble	
0.6	2'	Dark-Gray to Black fine SAND, trace Ash & Cinders	
0.9	3'	Gray SILT, little fine to coarse Gravel & Cobble, trace fine Sand & Concrete	
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3')	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/23/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-65
Date Finished: 1/23/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		Brown fine to coarse SAND, little fine to coarse Gravel, trace Cobble & Silt	Macro Core Sample 0 - 0.9 m (0' - 3'):
0.3	1'		PID = 0 ppm
		Dark-Brown fine SAND & SILT, trace fine to coarse Gravel & Cobble	
		Dark-Gray to Black fine SAND, trace Ash & Cinders	
0.6	2'		
		Gray SILT, little fine to coarse Gravel & Cobble, trace fine Sand & Concrete	
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3')	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/23/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-66
Date Finished: 1/23/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		Brown fine to coarse SAND, little fine to coarse Gravel, trace Cobble, Silt & Glass	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0 ppm
		Dark-Brown fine SAND & SILT, little fine to coarse Gravel, trace Brick, Glass & Cobble	
0.6	2'		
0.9	3'		
1.2	4'	Refusal on Gray GNEISS at 0.6 m (2') - Manual Probe	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		

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

Date Started: 4/18/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-67
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
0.3	1'	Brown fine to medium SAND, trace Asphalt, Silt & fine to coarse Gravel	Macro Core Sample 0 - 0.9 m (0' - 3'): PID = 0.7 ppm
0.6	2'		
0.9	3'		
1.2	4'		
1.5	5'	Refusal on Gray GNEISS at 0.9 m (3') - Manual Probe	
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 4/18/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-68
Date Finished: 4/18/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Dark-Brown SILT, trace fine to coarse Gravel & Asphalt	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0.5 ppm
		Brown fine to coarse SAND, little fine to coarse Gravel & Silt	
0.6	2'		
0.9	3'		
1.2	4'	Refusal on Gray GNEISS at 0.6 m (2')	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/23/03	**Logical Environmental Solutions** **Geoprobe Boring Log**	Boring No.: GP-69
Date Finished: 1/23/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth m	Depth ft	Description	Comments
		Brown fine to coarse SAND, little fine to coarse Gravel, trace Cobble & Silt	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0 ppm
		Dark-Brown fine SAND & SILT, trace fine to coarse Gravel & Cobble	
		Dark-Gray to Black fine SAND, trace Ash & Cinders	
0.6	2'		
0.9	3'		
1.2	4'	Refusal on Gray GNEISS at 0.6 m (2')	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/23/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-70
Date Finished: 1/23/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
		Light-Brown fine to coarse SAND, little fine to coarse Gravel, trace Cobble & Silt	Macro Core Sample 0 - 0.6 m (0' - 2'):
0.3	1'		PID = 0 ppm
		Gray fine SAND, little Silt, trace fine to coarse Gravel & Cobble	
0.6	2'		
0.9	3'		
1.2	4'	Refusal on Gray GNEISS at 0.6 m (2')	
1.5	5'		
1.8	6'		
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/23/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-71
Date Finished: 1/23/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
0.3	1'	Brown fine to medium SAND, little fine to coarse Gravel, trace Silt & Cobble	Macro Core Sample 0 - 0.6 m (0' - 2'): PID = 0 ppm
0.6	2'		
0.9	3'	Gray fine SAND, little Silt, trace fine to coarse Gravel & Cobble	Macro Core Sample 0.6 - 1.2 m (2' - 4'): PID = 0.1 ppm
1.2	4'		
1.5	5'		
1.8	6'	Refusal on Gray GNEISS at 1.2 m (4')	
2.1	7'		
2.4	8'		
2.74	9'		
3	10'		
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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

Date Started: 1/27/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-72
Date Finished: 1/27/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
			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'		PID = 0.2 ppm
1.2	4'	Brown fine SAND & SILT, little fine to coarse Gravel, trace Cobble	
1.5	5'		
1.8	6'		Macro Core Sample 1.2 - 2.4m (4' - 8'):
2.1	7'	Moist at 2.1 (7')	PID = 0.4 ppm
2.4	8'		
2.74	9'		
3	10'	Refusal on Gray GNEISS at 2.4 m (8')	
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		

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

Date Started: 1/27/03	**Logical Environmental Solutions Geoprobe Boring Log**	Boring No.: GP-73
Date Finished: 1/27/03		Client: Maguire Group Inc.
Driller: Wayne Lineberry	Project Location: Task 210 Subsurface Site Investigation Interstate 95 - Norwalk, CT	Inspector: C. Criscuolo

Depth (m)	Depth (ft)	Description	Comments
			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'		PID = 0.3 ppm
		Brown fine SAND & SILT, little fine to coarse Gravel, trace Cobble	
1.2	4'		
1.5	5'		
			Macro Core Sample 1.2 - 2.4m (4' - 8'):
1.8	6'		PID = 0.2 ppm
2.1	7'	Moist at 2.1 (7')	
2.4	8'		
2.74	9'		
3	10'	Refusal on Gray GNEISS at 2.4 m (8')	
3.4	11'		
3.7	12'		
4.0	13'		
4.3	14'		
4.6	15'		
4.9	16'		
m	ft		

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