TASK 210:
SURFICIAL SITE INVESTIGATION

GUILFORD AND CLINTON RAILROAD STATIONS
GUILFORD AND CLINTON, CONNECTICUT

ConnDOT Assignment No. 0400-3278
ConnDOT Project No. 0310-0007

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1.0 INTRODUCTION

The Connecticut Department of Transportation (ConnDOT) retained GEI Consultants, Inc., Atlantic Environmental Division (GEI/Atlantic), to perform a Task 210 Surficial Site Investigation (SSI) at properties located at the Guilford Railroad Station (311 to 342 Whitfield Street) in Guilford, Connecticut and at the Clinton Railroad Station (between John Street and Hull Street) in Clinton, Connecticut. The subject site locations are depicted in Figures 1 and 2. ConnDOT has proposed the construction of elevated platforms and pedestrian track crossings (including elevators and handicapped ramps) at the Guilford Railroad Station, and elevated platforms at the Clinton Railroad Station (ConnDOT Project No. 0310-0007).

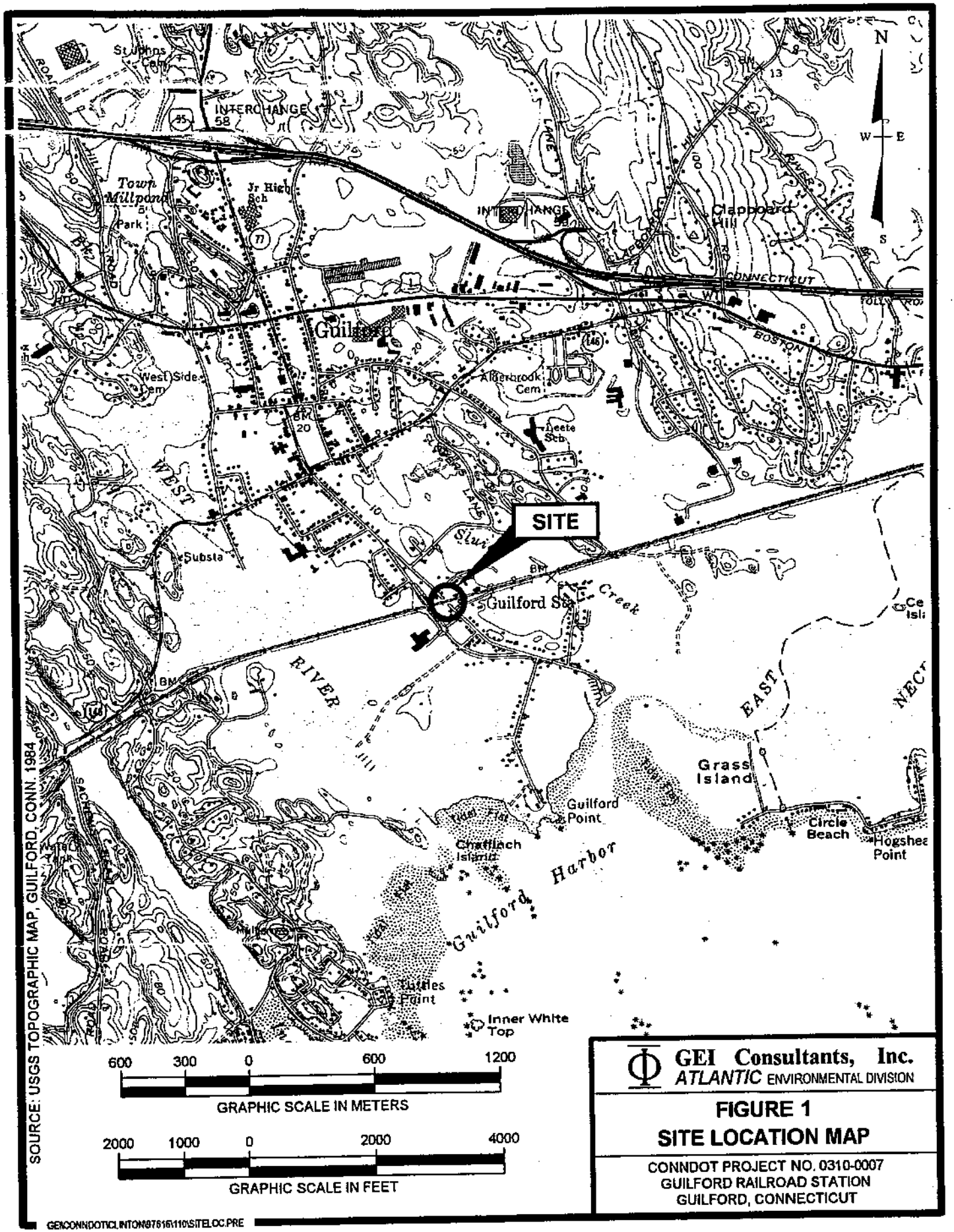
The purpose of the Task 210 SSI was to perform an investigation of the subject properties to assess the presence of on-site contamination in the general areas of proposed construction and to evaluate whether proposed construction activities may include the management of contaminated soil and dewatering liquids. This SSI includes surface-soil, subsurface-soil, and groundwater sampling and analysis. The proposed investigation program at this site is described in Section 4.0.

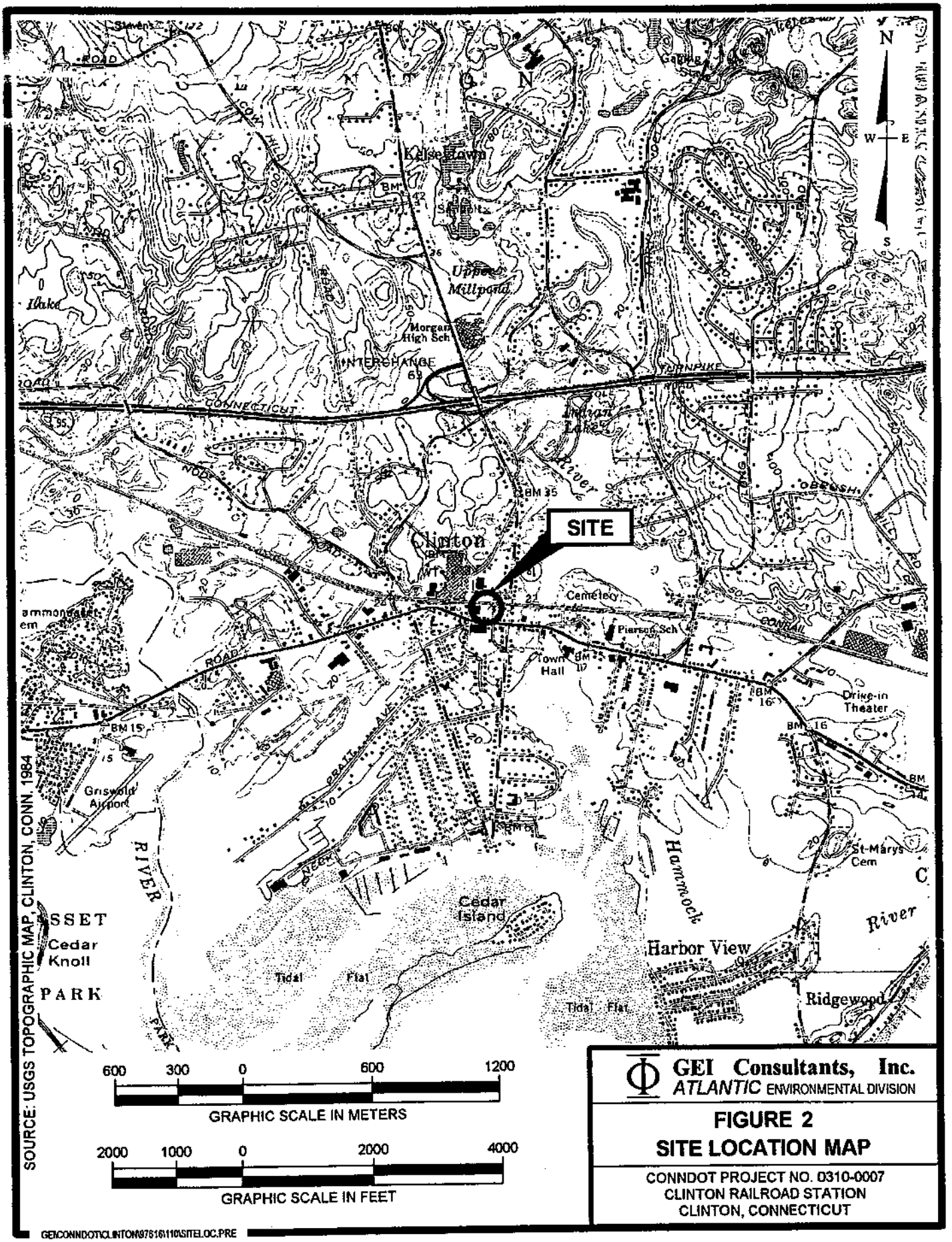
GEI/Atlantic previously conducted a Task 110 Corridor Land Use Evaluation (December 12, 1997) for the subject sites, which can be referenced for complete site information; summary information is presented herein.

Environmental concerns were noted at and adjacent to the Guilford and Clinton Railroad Stations. Environmental concerns at the Guilford Railroad Station are primarily related to the possible gasoline or petroleum underground storage tanks (USTs) located at an adjacent parcel, possible historic spills or applications (waste oil, pesticides and herbicides), and the unknown nature of fill material used within the railroad right-of-way (ROW). Environmental concerns at the Clinton Railroad Station are related to potential off-site sources of contamination from manufacturing and chemical waste handling; current and former automobile repair shops; a former dry cleaner; and a current gasoline station. Impacts from possible historic spills/applications (waste oils, pesticides, and herbicides) and the unknown nature of the fill material within the railroad ROW are also environmental concerns. This task was conducted in accordance with the Task 210, Surficial Site Investigation Work Plan, dated November 30,1999, which was based on proposed ConnDOT construction project descriptions and/or plans dated October 22, 1999 (prepared by T. Omstein at ConnDOT).

This document provides a brief description and history of the subject sites (Section 2.0); the local environment and geology of each site (Section 3.0); the field investigation methods and rationale (Section 4.0); a summary of the local geology encountered during drilling activities at each site (Section 5.0); a discussion of the hydrogeology of each site (Section 6.0); laboratory analytical results and evaluation of data (Section 7.0); a discussion of the local environment and receptors (Section 8.0); and the summary and conclusions (Section 9.0).

Dimensions are given in metric units, with the standard equivalents in parentheses. Exceptions are made where specific standard units are part of the historical or regulatory record (for instance, UST volumes, building dimensions), or are industry-standard specifications (e.g., well-screen length). A chart of equivalent units is provided as Appendix A.


SITE
INTERCHANGE 58
Town Millpond
Jr High Sch
Park
Guilford
West Side Cem
Alderbrook Cem
Clapboard Hill
CONNECTICUT
BOSTON
WEST
RIVER
Slur
Creek
Guilford Sta
Substa
EAST
Grass Island
Guilford Point
Chatfield Island
Guilford Harbor
Circle Beach
Hogshea Point
Turtles Point
Inner White Top
N
S
W
E
600 300 0 600 1200
GRAPHIC SCALE IN METERS
2000 1000 0 2000 4000
GRAPHIC SCALE IN FEET
SOURCE: USGS TOPOGRAPHIC MAP, GUILFORD, CONN. 1984
GEI Consultants, Inc.
ATLANTIC ENVIRONMENTAL DIVISION
FIGURE 1
SITE LOCATION MAP
CONNDOT PROJECT NO. 0310-0007
GUILFORD RAILROAD STATION
GUILFORD, CONNECTICUT
GEI\CONNDOT\CLINTON\97516\110\SITELOC.PRE


SITE
Clinton
Kelseytown
Upper Millpond
Morgan High Sch
INTERCHANGE 63
CONNECTICUT
TURNPIKE
Cemetery
Pierson Sch
Town Hall
Drive-in Theater
Griswold Airport
Cedar Island
Harbor View
Ridgewood
St-Marys Cem
Hammock
River
Cedar Knoll
PARK
Tidal Flat
N
S
W
E
600 300 0 600 1200
GRAPHIC SCALE IN METERS
2000 1000 0 2000 4000
GRAPHIC SCALE IN FEET
SOURCE: USGS TOPOGRAPHIC MAP, CLINTON, CONN. 1984
GEI Consultants, Inc.
ATLANTIC ENVIRONMENTAL DIVISION
FIGURE 2
SITE LOCATION MAP
CONNDOT PROJECT NO. 0310-0007
CLINTON RAILROAD STATION
CLINTON, CONNECTICUT
GEI\CONNDOT\CLINTON\97516\110\SITELOC.PRE

2.0 SITE DESCRIPTION AND HISTORY

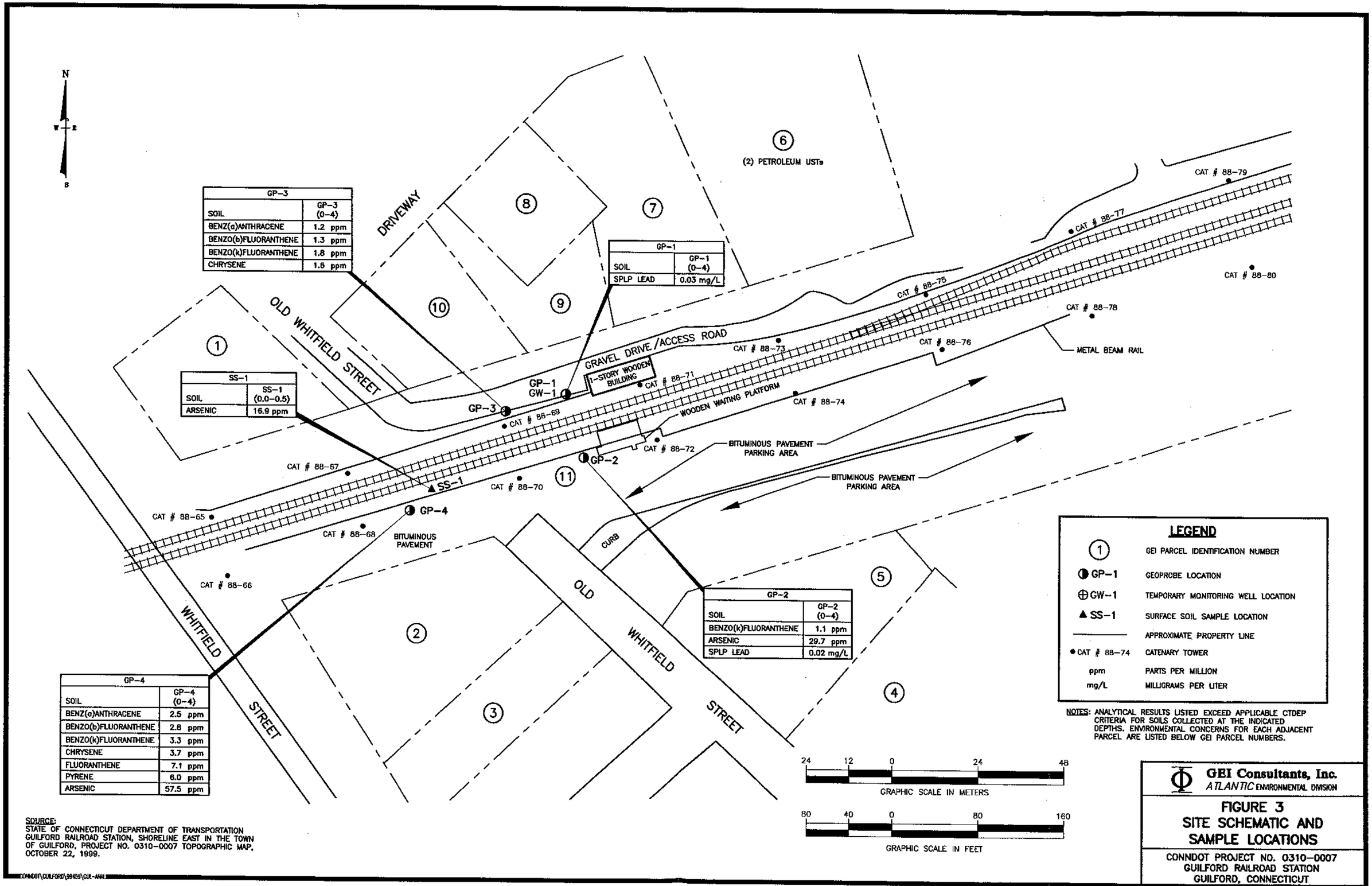
2.1 Site Description

The Guilford Railroad Station is located at the intersection of Old Whitfield Street and the New York-New Haven Railroad ROW. According to the Town of Guilford Tax Assessor's office, the site is currently owned by the State of Connecticut and is utilized as a railroad station. The site consists of two active railroad tracks, a wooden waiting platform on the southern side of the railroad tracks, a one-story wooden structure on the northern side of the railroad tracks, and catenary structures with raised electrical lines within the railroad ROW. A bituminous paved parking area is located to the south of the railroad ROW. A gravel access road parallels the ROW on the north. A site schematic is provided in Figure 3.

The Clinton Railroad Station is located at the end of John Street Extension in the Town of Clinton, Connecticut. The site consists of the New York-New Haven Railroad ROW, including two active railroad tracks on a railroad bed and a wooden waiting platform on the southern side of the railroad tracks. A bituminous paved parking lot utilized for railroad commuter parking is located on the southern side of the ROW. A site schematic is provided in Figure 6.

2.2 Site History

The site history for each of the Guilford and Clinton Railroad stations is summarized as follows. The Guilford Railroad Station is currently occupied by the New York-New Haven Railroad and has been since at least 1868, according to aerial photographs and historic atlases. The Clinton Railroad Station is currently occupied by the New York-New Haven Railroad. Historically, the site has been used for a train station as indicated in an 1874 Middlesex County Atlas, historic Sanborn Fire Insurance (Sanborn) maps, and aerial photographs.



GP-3	
SOIL	GP-3 (0-4)
BENZ(a)ANTHRACENE	1.2 ppm
BENZO(b)FLUORANTHENE	1.3 ppm
BENZO(k)FLUORANTHENE	1.8 ppm
CHRYSENE	1.6 ppm

GP-1	
SOIL	GP-1 (0-4)
SPLP LEAD	0.03 mg/L

SS-1	
SOIL	SS-1 (0.0-0.5)
ARSENIC	16.9 ppm

GP-2	
SOIL	GP-2 (0-4)
BENZO(k)FLUORANTHENE	1.1 ppm
ARSENIC	29.7 ppm
SPLP LEAD	0.02 mg/L

GP-4	
SOIL	GP-4 (0-4)
BENZ(a)ANTHRACENE	2.5 ppm
BENZO(b)FLUORANTHENE	2.8 ppm
BENZO(k)FLUORANTHENE	3.3 ppm
CHRYSENE	3.7 ppm
FLUORANTHENE	7.1 ppm
PYRENE	6.0 ppm
ARSENIC	57.5 ppm

LEGEND

(1)	GEI PARCEL IDENTIFICATION NUMBER
GP-1	GEOPROBE LOCATION
GW-1	TEMPORARY MONITORING WELL LOCATION
SS-1	SURFACE SOIL SAMPLE LOCATION
———	APPROXIMATE PROPERTY LINE
CAT # 88-74	CATENARY TOWER
ppm	PARTS PER MILLION
mg/L	MILLIGRAMS PER LITER

NOTES: ANALYTICAL RESULTS LISTED EXCEED APPLICABLE CTDEP CRITERIA FOR SOILS COLLECTED AT THE INDICATED DEPTHS. ENVIRONMENTAL CONCERNS FOR EACH ADJACENT PARCEL ARE LISTED BELOW GEI PARCEL NUMBERS.

SOURCE:
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION GUILFORD RAILROAD STATION, SHORELINE EAST IN THE TOWN OF GUILFORD, PROJECT NO. 0310-0007 TOPOGRAPHIC MAP, OCTOBER 22, 1999.

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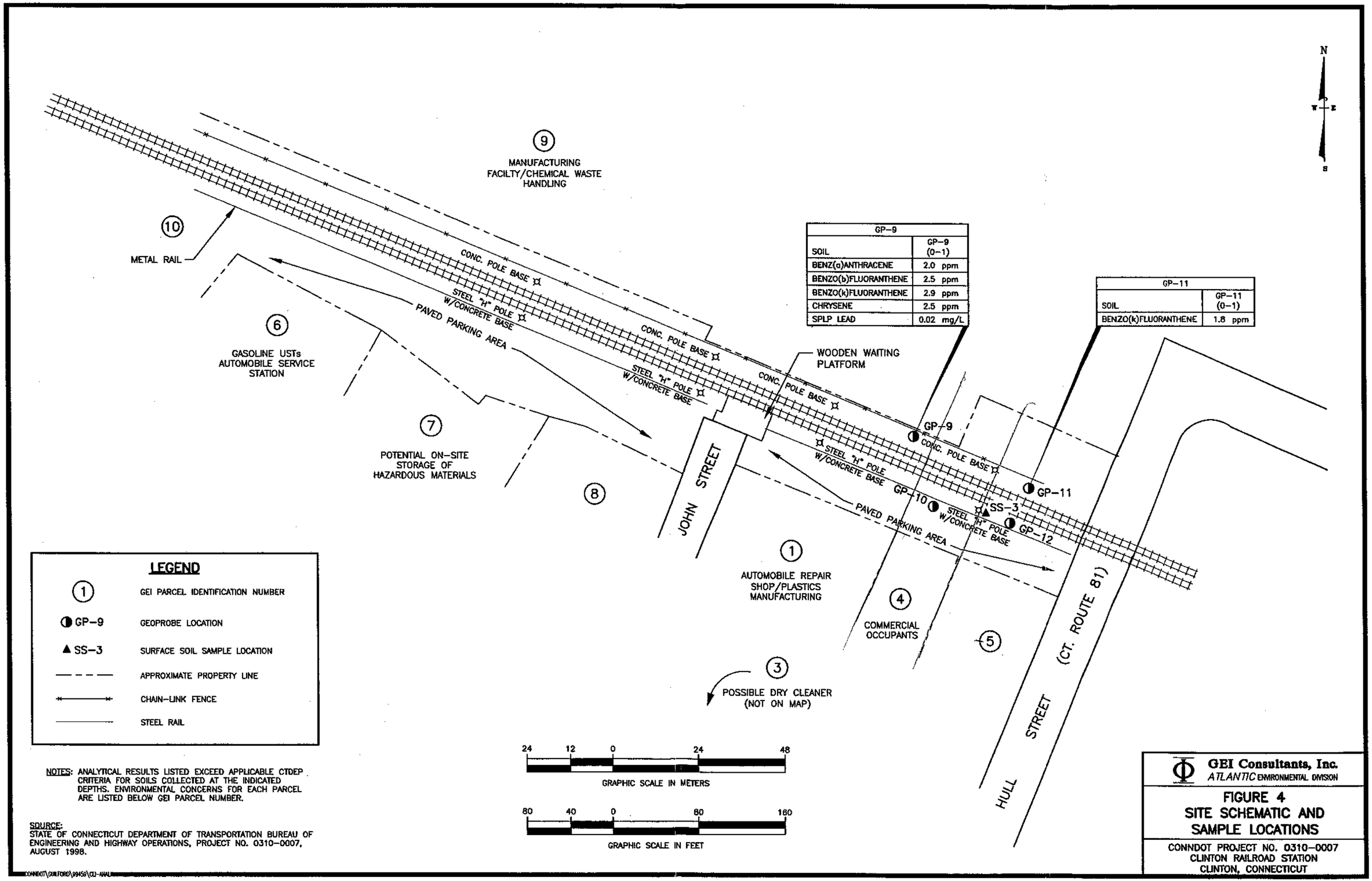
ATLANTIC ENVIRONMENTAL DIVISION

FIGURE 3
SITE SCHEMATIC AND SAMPLE LOCATIONS

CONNDOT PROJECT NO. 0310-0007
GUILFORD RAILROAD STATION
GUILFORD, CONNECTICUT



GP-9	
SOIL	GP-9 (0-1)
BENZ(a)ANTHRACENE	2.0 ppm
BENZO(b)FLUORANTHENE	2.5 ppm
BENZO(k)FLUORANTHENE	2.9 ppm
CHRYSENE	2.5 ppm
SPLP LEAD	0.02 mg/L

GP-11	
SOIL	GP-11 (0-1)
BENZO(k)FLUORANTHENE	1.8 ppm

LEGEND

1	GEI PARCEL IDENTIFICATION NUMBER
GP-9	GEOPROBE LOCATION
SS-3	SURFACE SOIL SAMPLE LOCATION
— — —	APPROXIMATE PROPERTY LINE
	CHAIN-LINK FENCE
	STEEL RAIL

NOTES: ANALYTICAL RESULTS LISTED EXCEED APPLICABLE CTDEP CRITERIA FOR SOILS COLLECTED AT THE INDICATED DEPTHS. ENVIRONMENTAL CONCERNS FOR EACH PARCEL ARE LISTED BELOW GEI PARCEL NUMBER.

SOURCE:
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING AND HIGHWAY OPERATIONS, PROJECT NO. 0310-0007, AUGUST 1998.

GEI Consultants, Inc.
ATLANTIC ENVIRONMENTAL DIVISION

FIGURE 4
SITE SCHEMATIC AND SAMPLE LOCATIONS

CONNDOT PROJECT NO. 0310-0007
CLINTON RAILROAD STATION
CLINTON, CONNECTICUT

3.0 LOCAL ENVIRONMENT

3.1 Groundwater

Groundwater below and near the eastern portion of the Guilford Railroad Station (east of Whitfield Street) is classified by the Connecticut Department of Environmental Protection (CTDEP) as a GA groundwater area (Reference 1). The GA classification indicates groundwater within the area of influence of private and potential public water supply wells that is presumed suitable for direct human consumption without need for treatment. The state's goal is to maintain the quality of the drinking water.

Groundwater below and near the western portion of Guilford Railroad Station (west of Whitfield Street) and the Clinton Railroad Station is classified by the CTDEP as a GA groundwater area, but may not meet current standards (Reference 1). The GA classification indicates groundwater that may not be suitable for direct human consumption without treatment because of waste discharges, spills or leaks of chemicals, or land-use effects. The state's goal is to restore the groundwater to drinking water quality.

3.2 Surface Water

The land surface at the Guilford Railroad Station is generally flat. Surface water runoff is expected to flow west, via overland flow and other drainage pathways, to an unnamed tributary located 305± meters [1,000± feet] to the west of the subject site. This surface water is classified by the CTDEP as SB/SA, designating the waters for use as a marine fish, shellfish, and wildlife habitat, shellfish harvesting, for direct human consumption, recreation, and all other legitimate uses, including navigation (Reference 2). The SB/SA classification indicates that the water does not meet water quality criteria for one or more designated uses. The state's goal is Class SA.

The land surface at the Clinton Railroad Station is generally flat. Surface water runoff is expected to flow southwest, via overland flow and other drainage pathways, to an unnamed tributary that flows into the Hammonassett River, located 335± meters [1,100± feet] to the west of the subject site.

The unnamed tributary is unclassified, but the Hammonassett River is classified by the CTDEP as SB, designating the waters for marine fish, shellfish, and wildlife habitats, recreation, industrial supply, and other legitimate uses, including navigation (Reference 2). The SB classification indicates that the waters are known or presumed to meet water quality criteria for the designated uses. The state's goal is Class SB.

3.3 Water Supply

The Guilford Railroad Station is not supplied with potable water from public or private water supply wells. It is noted that one private residential well is located at 15 Driveway Street adjacent to the ROW, based on the Task 110 Corridor Land Use Evaluation (December 12, 1997). The remainder of the adjacent parcels are supplied with potable water by the Connecticut Water Company Guilford-Chester Division Guilford System (Reference 3).

The Clinton Railroad Station is not supplied with potable water from public or private water supply wells, based on the Task 110 Corridor Land Use Evaluation (December 12, 1997). Adjacent parcels are supplied with potable water by the Connecticut Water Company Guilford-Chester Division Guilford System (Reference 3).

Two public water supply wells are located 650± meters [2,115± feet] northwest of the Clinton Railroad Station (Reference 3).

No other public water supply wells located within a 1.6-kilometer (1.0-mile) radius were noted (Reference 3).

3.4 Bedrock Geology

According to the *1985 United States Geological Survey (USGS) Bedrock Geology Map of Connecticut*, the Guilford Railroad Station is indicated as having an unknown bedrock geology; however, based on the geology of the surrounding area, the site is believed to be underlain by Monson Gneiss. The Clinton Railroad Station is underlain by Clinton Granitic Gneiss, which is described as a pink biotitic granitic (quartz-monozonitic) gneiss.

3.5 Surficial Geology

According to the *1967 and 1968 USGS Map of the Surficial Geology of the Guilford Quadrangle, Connecticut,* the Guilford Railroad Station is underlain by outwash sediments. These sediments are described as sand and gravel, mainly with cut-and-fill stratification, grading up-valley into ice-contact stratified drift. The Clinton Railroad Station is underlain by sand. This unit is described as composed as mainly coarse to fine sand, commonly in well-sorted layers. Coarser layers may contain up to 25% gravel particles. Finer layers may contain some very fine sand, silt, and clay.

Site-specific geology and hydrology are provided in Sections 5.0 and 6.0 of this report.

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4.0 FIELD INVESTIGATION

4.1 Objective

The objective of this investigation was to conduct a screening level investigation (SSI) to assess the presence of contamination within the proposed construction areas. Surface-soil, subsurface-soil, and groundwater sampling and analysis was conducted to investigate these sources. This investigation did not assess the potential for contaminant sources outside the construction area. The field aspects of this investigation were conducted on December 7, 1999 and December 8, 1999 by Lynn Willey of GEI/Atlantic.

Based upon the results of a Task 110, Corridor Land Use Evaluation (dated December 12, 1997), the following areas of potential environmental concern were noted.

Environmental concerns at the Guilford Railroad Station are related to the potential historic applications of herbicides, pesticides, and waste oils along the railroad ROW for pest and weed controls, and the unknown characteristics of the on-site fill materials used in the construction of the railroad (Parcel 11). In addition, an adjacent parcel (Parcel 6) has potential environmental concerns related to two petroleum USTs that could potentially impact the construction area.

Environmental concerns at the Clinton Railroad Station are related to the potential historic applications of herbicides, pesticides, and waste oils along the railroad ROW for pest and weed controls, and the unknown characteristics of the on-site fill materials used in the construction of the railroad (Parcel 10). In addition, potential environmental concerns noted at parcels adjacent to the proposed Clinton Railroad Station are summarized as follow:

- Parcel 1 (located to the south of the proposed work area) is currently occupied by Jerry's Auto (automobile repair shop) and plastics manufacturing;
- Parcel 3 (to the south of the proposed construction area) was previously occupied by Parkside Cleaners (former tenant);
- Parcel 4 (located to the south of the proposed construction area) has a current commercial tenant;
- Parcel 6 (located to the west of the proposed construction area) is currently and has historically been a gasoline service station;
- Parcel 7 (located to the west of the proposed work area) is currently a feed and hardware store and has potential environmental concerns with on-site storage of paints, solvents and hazardous material; and
- Parcel 9 (located to the north of the proposed work area) is currently occupied by Cheseborough Ponds, Inc., has potential on-site manufacturing/chemical waste handling activities, and has been a manufacturing facility since 1884. These parcels are all in close proximity to the proposed construction area and could potentially impact the area.

4.2 Sampling Plan and Rationale

This subsection provides an overview of the site sampling plan, including the rationale for sampling locations and individual sample selection for laboratory analysis. Sample locations are shown in

Figures 3 and 4. Sample locations were field measured from existing mapped structures and translated onto mapped information using CAD. The rationale for the placement of sample locations is summarized in Table 1.

4.3 Field Investigation and Sampling Methods

4.3.1 Subsurface-Soil Sampling

The drilling subcontractor, Earth Technologies Incorporated, completed the boring work on December 7 and 8, 1999. Lynn Willey of GEI/Atlantic was on site to monitor the test boring and temporary groundwater monitoring well installation activities.

4.3.1.1 Geoprobe™ Sampling

Subsurface-soil samples (GP-1 to GP-4, GP-10, and GP-12) were collected using a truck-mounted, direct-push (Geoprobe™) drilling rig. Samples were collected continuously from the ground surface to the final depth of each boring using a 4-foot long, approximately 2-inch diameter, stainless-steel macro-core sampling tube with an acetate disposable sleeve insert. At sampling locations that were overlain by pavement, sampling began immediately beneath the pavement and any underlying gravels. Soil samples were collected by driving the macro-core sampling tube equipped with a dedicated acetate liner into the soil. The soil samples were collected within the acetate liner, which was subsequently removed from the core and opened using a utility knife. The soil samples were then logged, screened, and sampled for laboratory analysis. After the completion of each boring, drillers decontaminated the macro-core sampling device with tap water and detergent wash followed by a tap water rinse.

Sampling locations were generally coincident with the proposed locations within the Task 210 work plan; however, some exceptions were noted. At the Guilford Railroad Station, GP-1 was offset 1.5± meters (0.457± foot) to the west of its proposed location because an automobile covered the proposed location. GP-3 was moved 21± meters [70± feet] east of its proposed location because the proposed GP-3 location did not appear to be cleared for underground utilities.

Table 1
Sampling Rationale

Sample ID	Sample Location/ Rationale	Sample Designations (Sample Depth in feet)	Selected Soil Sample Interval Rationale	Sample Type		Analysis[1]					
				Soil	Water	VOCs[2]	SVOCs[3]	Metals[4] (SPLP & Total)	TPH[5]	PCB[6]/ Pest-icides[7]	Herb-icides[8]
Temporary Geoprobe.™ Microwells											
Guilford Railroad Station											
GP-1	Located on the northern side of the railroad ROW adjacent to the one-story wooden structure/To screen soils and groundwater in proposed elevator and overpass construction area.	GP-1 (0-4)	Black-stained soils and fill material (coal dust, fragments, and ash) noted, and PID reading	•		•	•	•	•		
		GP-1 (4-8)	Highest PID reading and approximate groundwater table	•		•					
		GW-1	Screen groundwater in proposed construction area for potential construction dewatering		•	•	•	•			
Geoprobe.™ Borings											
Guilford Railroad Station											
GP-2	Located on the southern side of the railroad ROW adjacent to the current wooden waiting platform	GP-2 (0-4)	Black-stained soils noted and PID reading	•			•	•	•		
		GP-2 (4-8)	Approximate groundwater table	•		•					
GP-3	Located on the northern side of the railroad ROW chain-link fence/To screen soils adjacent to proposed elevated platform construction area for possible applications of waste oils/herbicides/ pesticides and to describe fill material.	GP-3 (0-4)	Black-stained soils and fill material (coal fragments) and PID reading	•		•	•	•	•	•	•
GP-4	Located in the paved railroad parking area south of the railroad ROW/To screen soils in the proposed elevated platform construction area for possible historic applications of waste oils/ herbicides/pesticides and to describe fill material.	GP-4 (0-4)	Black-stained soils and fill material (coal fragments)	•		•	•	•	•	•	•

Table 1 (continued)
Sampling Rationale

Sample ID	Sample Location/ Rationale	Sample Designations (Sample Depth in feet)	Selected Soil Sample Interval Rationale	Sample Type		Analysis[1]					
				Soil	Water	VOCs[2]	SVOCs[3]	Metals[4] (SPLP & Total)	TPH[5]	PCB[6]/ Pest-icides[7]	Herb-icides[8]
Clinton Railroad Station											
GP-9	Located south of the railroad ROW within the commuter parking lot/To screen soils in the proposed elevated platform construction area for possible historic impacts from waste oil/ herbicide/pesticide applications and to characterize the unknown nature of the fill material.	GP-9 (0-1)	Black-stained soils and artificial fill material (slag)	•		•	•	•	•	•	•
GP-10	Located on the northern portion of the railroad ROW/To screen shallow soils in the proposed elevated platform construction area for possible historic applications of waste oils and to address the unknown nature of fill within the ROW.	GP-10 (0-4)	Black-stained soils and some fill material (slag) noted	•		•	•	•	•		
GP-11	Located on the northern portion of the railroad ROW/To screen shallow soils in the proposed elevated platform construction area for possible historic applications of waste oils and to address the unknown nature of fill within the ROW.	GP-11 (0-1)	Black-stained soils	•		•	•	•	•		
GP-12	Located south of the railroad ROW within the commuter parking lot/To screen soils in the proposed elevated platform construction area for possible historic impacts from waste oil/ herbicide and pesticide applications and to characterize unknown nature of the fill material.	GP-12 (0-4)	Black-stained soils	•		•	•	•	•	•	•
Surface-Soil Samples											
Guilford Railroad Station											
SS-1	Located within the south side of the railroad ROW/To screen railroad ballast and ROW surficial materials for possible historic applications of waste oil/pesticides/ herbicides.	SS-1 (0.0-0.5)	Black-stained soils	•		•	•	•	•	•	•

Table 1 (continued)
Sampling Rationale

Sample ID	Sample Location/ Rationale	Sample Designations (Sample Depth in feet)	Selected Soil Sample Interval Rationale	Sample Type		Analysis[1]					
				Soil	Water	VOCs[2]	SVOCs[3]	Metals[4] (SPLP & Total)	TPH[5]	PCB[6]/ Pest-icides[7]	Herb-icides[8]
Clinton Railroad Station											
SS-3	Located within the south side of the railroad ROW/To screen railroad ballast and ROW surficial materials for possible historic applications of waste oil/pesticides/ herbicides.	SS-3 (0.0-0.5)	Black-stained soils	•		•	•	•	•	•	•

Notes:
1. All test methods specified are from EPA SW-846 test methods.
2. VOCs refers to aromatic and chlorinated volatile organic compounds (EPA Method 8021B).
3. SVOCs refers to semivolatile organic compounds (EPA Method 8270 modified).
4. Resource Conservation Recovery Act (RCRA) Metals analyzed are as follow: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. SPLP refers to Synthetic Precipitation Leaching Procedure (EPA Method 1312), which was completed on soils only.
5. TPH refers to total petroleum hydrocarbons (EPA Method 418.1).
6. PCB refers to polychlorinated biphenyl (EPA Method 8082).
7. Pesticides were completed by EPA Method 8081A.
8. Herbicides were completed by EPA Method 8151A.

At the Clinton Railroad Station, the GP-9 and GP-11 locations were completed with a hand auger to a depth of 0.3048 meter [1 foot] because of limited space within the railroad ROW. The GP-10 and GP-12 locations were offset 1.8 meters (6 feet) to the south from their proposed locations because of the limited space for the Geoprobe™ drilling rig within the ROW. The proposed temporary monitoring well at the Clinton Railroad Station was not completed because groundwater was not encountered at the proposed boring depth of 1.22± meters [4± feet] below ground surface (bgs).

No other exceptions to the Task 210 work plan were noted.

4.3.1.2 Soil Sample Selection

Each soil sample collected was visually examined and logged in the field by GEI/Atlantic personnel. Each soil sample was screened for total volatile organic compounds (VOCs) using an organic vapor analyzer equipped with a photoionization detector (PID). This instrument was calibrated daily prior to the start of work. Soil samples were selected for laboratory analysis based on visual evidence of contamination, PID screening results, any odors observed, the water table interface, and observed geologic features that may affect the migration of contaminants in the soil. If soils from a particular sampling location did not exhibit any evidence of contamination, then the sample corresponding with the water table interface or from a depth consistent with the proposed construction activity was typically submitted for analysis.

Observations made during the soil sample collection revealed black staining and artificial fill at the Guilford and Clinton Railroad Stations. Black staining of soils was observed in subsurface soils in GP-1, GP-2, GP-3, and GP-4 at the Guilford Railroad Station; and GP-9 GP-10, GP-11, and GP-12 at the Clinton Railroad Station. Artificial fill (slag, or coal fragment and dust, brick fragments or ash) was noted in GP-1, GP-3, and GP-4 (Guilford Railroad Station); and GP-9 and GP-10 at the Clinton Railroad Station. No odors were noted during the collection of these soil samples. PID detections were noted in GP-1, GP-2, and GP-3. A summary of subsurface-soil selection rationale and laboratory samples submitted to the laboratory is presented on Table 1. See boring logs in Appendix B for a complete description of subsurface soils.

4.3.1.3 Decontamination Procedures

To prevent cross contamination between sampling rounds, the Geoprobe™ macro-corer and other sampling tools used to collect samples as indicated in subsequent sections of this report were decontaminated in accordance with GEI/Atlantic Standard Operating Procedures (SOPs). Soil samples were collected in accordance with GEI/Atlantic SOPs.

4.3.2 Groundwater Sampling Methods

During the subsurface-soil sampling program, temporary 1-inch diameter microwells were installed into select boring annuli. The well material consists of a 5-foot length of 0.015-inch slotted polyvinyl chloride (PVC) pipe fitted with solid PVC riser to the surface.

Prior to sampling, the temporary wells were evacuated of approximately three well volumes or pumped until dry. A groundwater sample was collected for analysis of VOCs, semivolatile organic compounds (SVOCs), and RCRA-8 metals using a peristaltic pump and dedicated tubing.

A groundwater sample for metals analysis was collected in the same manner as the SVOCs and were field preserved using laboratory grade nitric acid. Groundwater was not filtered from the temporary monitoring wells in order to assess groundwater as possible construction dewatering liquids at the site.

A groundwater sample collected from GW-1 (Guilford Railroad Station) was clear to slightly cloudy. No sheening, product, or odors were noted.

4.3.3 Surface-Soil Sampling

Surface-soil sampling and analysis was conducted to screen for potential contamination from herbicide/pesticide application, spills, and possible waste oil application, and to characterize railroad ballast material within the railroad ROW. The number of samples and rationale for collection are summarized in Table 1. Samples were collected in accordance with GEI/Atlantic SOPs.

Surface-soil samples were collected using a stainless-steel sampling spoon which was decontaminated between sampling events according to GEI/Atlantic SOPs. Samples were collected from the surface to a depth of 0.013± meter [0.5± foot].

Observations made during the collection of surface soil revealed black-stained soils at SS-1 (Guilford Railroad Station) and SS-3 (Clinton Railroad Station). No odors or detections were observed on the PID during the collection of these soil samples.

4.4 Laboratory Analysis

All soil and groundwater samples collected for analysis were placed into an ice-filled cooler immediately after collection. Samples selected for laboratory analysis were recorded on chain-of-custody forms which are included in Appendix C. Samples were preserved with ice and delivered by GEI/Atlantic personnel to Environmental Science Corporation laboratory on December 7 and December 9, 1999.

Samples collected for laboratory analysis were analyzed as specified in Table 1. VOCs and SVOCs were selected for analysis because they comprise chemicals contained in solvents, degreasers, and petroleum products, all of which are commonly associated with areas of potential chemical releases. The metals selected for analysis (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) have been identified by the United States Environmental Protection Agency (EPA) as common metal contaminants. Polychlorinated biphenyls (PCBs) were selected for analysis because of unknown characteristics of on-site fill, hydraulic fluids, and waste oils. Total petroleum hydrocarbon (TPH) analysis was conducted because it can provide an indication whether petroleum-

related product is present. Pesticide and herbicide analysis was completed to address potential historic applications of pesticides and herbicides within the proposed construction area.

5.0 GEOLOGY

Generally, the geology encountered during the SSI was consistent with the geology described within subsection 3.5, Surficial Geology.

Generally, soils encountered at the Guilford Railroad Station included very fine to medium, well-sorted sand with some horizontal bedding noted. Sands were encountered at 0.3 to 0.61± meter [1 to 2± feet] bgs to a maximum depth of 3.0± meters (10± feet). In addition, artificial fill (including coal fragments, coal dust or ash) was encountered in GP-1, GP-2, GP-3, and GP-4 borings from the ground surface to 0.61± meters [2± feet] bgs. See boring logs (GP-1, GP-2, GP-3, and GP-4) in Appendix B for a full description of the logged soils from the Guilford Railroad Station.

Soils collected from the Clinton Railroad Station included fine to medium sand from the ground surface to a maximum depth of 1.2± meters (4 feet). Artificial fill (slag) was noted in GP-9 and GP-11 from the ground surface to 0.3± meter (1± feet). See boring logs (GP-9, GP-10, GP-11, and GP-12) in Appendix B for a full description of the logged soils from the Clinton Railroad Station.

Φ

6.0 HYDROLOGY

6.1 Groundwater Flow Direction

The land surface at the Guilford Railroad Station is generally flat. Surface water runoff is expected to flow west, via overland flow and other drainage pathways, to an unnamed tributary located 305± meters [1,000± feet] to the west of the subject site. Groundwater was encountered at 1.20± meters [4 feet] bgs at the site.

The land surface at the Clinton Railroad Station is generally flat. Surface water runoff is expected to flow southwest, via overland flow and other drainage pathways, to an un-named tributary that flows into the Hammonassett River, located 335 ± meters [1,100± feet] to the west of the subject site. No groundwater was encountered to 1.2± meters [4± feet] bgs at the site.

Φ

7.0 LABORATORY ANALYTICAL RESULTS

7.1 CTDEP Cleanup Criteria

7.1.1 Overview and Applicability

Analytical results for soils and groundwater obtained during this investigation were compared to the Connecticut Remediation Standard Regulations (RSRs) (January 1996) developed by the CTDEP. The cleanup standards are summarized herein, but the actual referenced document should be consulted for complete details.

The CTDEP's intent in developing these regulations is to define: minimum remediation performance standards, specific numeric cleanup criteria, and a process for establishing an alternative site-specific standard.

The regulations apply at any action taken to remediate polluted soil, surface water, or a groundwater plume at or emanating from a release area, provided that the remedial action is: (1) required pursuant to Chapter 445 (Hazardous Waste) or 446K (Water Pollution Control) of the Connecticut General Statutes; or (2) undertaken pursuant to the voluntary cleanup provisions of Public Act 95-183 or 95-190; including, but not limited to, any such action required to be taken or verified by a licensed environmental professional, except as otherwise provided in the regulations. Specifically, the regulations provide that the standards do not apply to: (1) the soil and water within the zone of influence of a groundwater discharge permitted under Section 22a-430 CGS; or (2) a release which has been remediated and which remediation has been approved in writing by the CTDEP.

7.1.2 Soil Cleanup Criteria

The CTDEP soil remediation goals integrate two soil cleanup criteria: (1) Direct Exposure Criteria (DEC) to protect human health and the environment from risks associated with direct exposure to pollutants in contaminated soil; and (2) Pollutant Mobility Criteria (PMC) to protect groundwater quality from pollutants that migrate from the soil to groundwater. Soils to which both criteria apply must be remediated to a level which is equal to the more stringent criteria. The CTDEP cleanup criteria also include a requirement that contaminated soils which pose an ecological risk be remediated on a case-by-case basis.

Direct Exposure Criteria (DEC). Specific numeric exposure criteria for a broad range of pollutants in soil have been established by CTDEP, based on exposure assumptions relative to incidental ingestion of pollutants in soils and dermal contact with soils. The DEC apply to accessible soil to a depth of 15 feet. The DEC for substances other than PCBs do not apply to inaccessible soil at a release area provided that an environmental land-use restriction

(ELUR) is in effect with respect to the subject parcel. Refer to the cleanup regulations for specific requirements regarding PCB-contaminated soil. Inaccessible soil generally means polluted soil which is: (1) more than 4 feet bgs; (2) more than 2 feet below a paved surface comprised of a minimum of 3 inches of bituminous concrete or concrete; (3) beneath an existing building; or (4) beneath another permanent structure(s) approved by the Commissioner. Inaccessible soil cannot be exposed by excavation, demolition, or construction activities without written approval from the Commissioner.

CTDEP has established two sets of DEC using exposure assumptions appropriate for residential land use or for industrial and certain commercial land use. In general, all sites are required to be cleaned up to the residential criteria. An industrial/commercial site (in lieu of meeting the residential standards) may meet the industrial land-use criteria, if an ELUR is in effect with respect to such parcel.

Pollutant Mobility Criteria (PMC). The PMC that will apply to remediation of a site depend on the groundwater classification of the site. The purpose of these criteria is to prevent any contamination to groundwater in GA-classified areas, and to prevent unacceptable further degradation to groundwater in GB-classified areas. The PMC generally apply to all soil in the unsaturated zone, from the ground surface to the seasonal low water table in GA-classified areas. For sites within GB-classified areas, the PMC are applicable to all soils from the ground surface to the seasonal high water table. The PMC or an appropriate alternative criteria may also be applied to soils below the water table if such soils constitute an ongoing source of groundwater pollution and if remediation of such soils is technically practicable. The criteria do not apply to environmentally isolated soils that are polluted with substances other than VOCs provided that an ELUR is recorded for the site which ensures that such soils will not be exposed as a result of demolition of the building or other activities. Environmentally isolated soils are defined as contaminated soils beneath an existing building (or other permanent structure, as approved by the Commissioner) which are not a source of ongoing pollution. "Urban fill" material (coal or wood ash, or asphalt fragments) may also be exempt from the PMC in certain cases.

A substance, other than an inorganic substance or PCB, in soil shall be remediated to at least that concentration at which the results of a mass analysis of soil for such substance does not exceed the PMC applicable to the groundwater classification (GA such as the site) of the area in which the soil is located. An inorganic substance or PCB in soil shall be remediated to at least that concentration in which the results of a toxicity characteristic leaching procedure (TCLP) or synthetic precipitation leaching procedure (SPLP) analysis of such soil for such substance does not exceed the PMC applicable to the groundwater classification of the area in which the soil is located. If certain conditions are met, a site in a GA area need only be remediated to GB standards.

7.1.3 Groundwater Remediation Standards

Similar to remediation standards for soil, groundwater remediation requirements are dependent upon the groundwater classification. The objectives of these standards are to: (1) protect and preserve groundwater in GA areas as a natural resource; (2) protect existing use of groundwater regardless of the area's groundwater classification; (3) prevent further degradation of groundwater quality; (4) prevent degradation of surface water from discharges of contaminated groundwater; and (5) protect human health.

The Groundwater Remediation Standards regulate remediation of groundwater based on each substance present in a plume and by each distinct plume of contamination. Several factors influence the remediation goal at a site, including background groundwater quality, the groundwater classification, the proximity of nearby surface water, existing groundwater uses, and existing buildings and their use. When assessing general groundwater remediation requirements, all of these factors must be considered in conjunction with the major numeric components of the RSRs.

The three major numeric components which are described herein include the following.

- Groundwater Protection Criteria (GWPC)
- Surface Water Protection Criteria (SWPC)
- Volatilization Criteria (VC)

Groundwater Protection Criteria. The GWPC apply to all groundwater in a GA-classified area. The GWPC ensure that groundwater contamination resulting from on-site sources which exceeds background is remediated to levels that adequately protect its designated use as an existing or potential supply of water suitable for drinking without treatment. In general, compliance with GWPC is achieved when the concentration of all substances in a plume is less than the GWPC.

Surface Water Protection Criteria. The SWPC apply to all groundwater which discharges to surface water. The SWPC ensure that groundwater contamination resulting from on-site sources which exceeds background is remediated to levels that adequately protect the surface water quality. SWPC are based on Connecticut's water quality standards which are protective of both human health and the environment. In general, compliance with the SWPC is achieved when the average concentration of a compound in groundwater emanating from a site is less than the SWPC established by the CTDEP.

Volatilization Criteria. The VC apply to all groundwater polluted with a volatile organic substance within 15 feet of the ground surface or a building. According to the regulations, the volatile organic substance of concern will be remediated to a concentration which is equal to or less than the applicable residential VC for groundwater. If groundwater polluted with a volatile organic substance is below a building used solely for industrial or commercial activity, groundwater may be remediated to the applicable industrial/commercial VC in lieu of the residential VC for groundwater, provided that an ELUR is in effect with respect to the parcel (or portion of the parcel covered by the building). The ELUR also must ensure that

the parcel (or portion thereof beneath the building) will not be used for any residential purpose in the future and that any future use is limited to industrial or commercial activity. There are a number of exceptions to the VC under the RSRs.

In GA-classified areas, the remediation goal is generally the background concentration and compliance with the SWPC and VC. Background concentration for a compound in groundwater at a site is defined as the concentration of that compound in groundwater (immediately upgradient of the contamination plume) that is not affected by any release of pollutants on or related to the site.

Groundwater in a GA area can be remediated to the numerical GWPC, rather than background, under one of two scenarios, as follow.

- When the following conditions are met.
  - Groundwater background concentration is less than or equal to the GWPC.
  - A public water supply system is available within 200 feet of the site.
  - The site is not located within an aquifer protection area.
  - The site is not located within an area of influence associated with a public water supply well.

Or:

- **If prior to remediation, the maximum concentration in the plume is less than or equal to the GWPC.**

The objective of groundwater remediation in a **GB-classified area** is compliance with the SWPC and VC background levels. In addition, concentrations must be such that the groundwater plume does not interfere with any existing uses of the groundwater.

7.2 Evaluation of Data

7.2.1 Soil Sample Analytical Results

Ten subsurface-soil samples and two surface-soil samples were collected from the proposed construction areas at the Guilford and Clinton Railroad Stations. Eleven of the soil samples were submitted for VOCs; ten soil samples were submitted for SVOCs, RCRA-8 total metals, RCRA-8 SPLP metals, and TPH; and six soil samples were submitted for PCB, pesticide, and herbicide analyses. Soil sample laboratory test results are summarized in Table 2, which provides a comparison between the detected concentrations and the CTDEP RSRs. Laboratory analytical results are provided in Appendix C. Analytical results above applicable CTDEP RSR criteria are displayed on Figure 3 and 4.

Volatile Organic Compounds

Laboratory analytical results completed on soil samples reveal that VOCs were detected in 11 soil samples from the Guilford and Clinton Railroad Stations.

Table 2
Soil Analytical Results
Guilford and Clinton Railroad Stations
Guilford and Clinton, Connecticut

Substance	CTDEP Criteria					Sample ID/Depth (feet)						
						Guilford Railroad Station						
	RDEC (ppm)	IDEC (ppm)	GA PMC (ppm)	RVC (ppm)	IVC (ppm)	GP-1 (0-4)	GP-1 (4-8)	GP-2 (0-4)	GP-2 (4-8)	GP-3 (0-4)	GP-4 (0-4)	SS-1 (0-0.5)
Volatile Organic Compounds (VOCs) (ppm)												
Chloroform	100	940	0.12	4.5	10.4	0.0012	ND	NA	ND	ND	ND	ND
Dichlorodifluoromethane	---	---	---	---	---	0.013	0.0031	NA	0.0032	0.01	0.023	0.0081
Methylene chloride	82	760	0.1	1200	2907	0.014	0.0033	NA	0.005	0.022	0.034	0.013
Tetrachloroethene	12	110	0.1	1500	3820	ND	ND	NA	ND	ND	ND	ND
Semivolatile Organic Compounds (SVOCs) (ppm)												
Acenaphthylene	1000	2500	8.4	---	---	ND	NA	0.27	NA	ND	ND	ND
Benz(a)anthracene	1	7.8	1	---	---	ND	NA	0.7	NA	1.2	2.5	ND
Benzo(b)fluoranthene	1	7.8	1	---	---	ND	NA	0.78	NA	1.3	2.8	ND
Benzo(k)fluoranthene	8.4	78	1	---	---	0.2	NA	1.1	NA	1.8	3.3	ND
Benzo(a)pyrene	1	1	1	---	---	ND	NA	0.22	NA	ND	ND	ND
Chrysene	84	780	1#	---	---	0.2	NA	0.94	NA	1.6	3.7	ND
Fluoranthene	1000	2500	5.6	---	---	0.3	NA	1.4	NA	2.1	7.1	ND
Indeno(1,2,3-cd)pyrene	1#	7.8	1#	---	---	ND	NA	0.29	NA	ND	ND	ND
Phenanthrene	1000	2500	4	---	---	ND	NA	0.42	NA	1.2	2.7	ND
Pyrene	1000	2500	4	---	---	0.31	NA	1.4	NA	2.2	6.0	ND
Total Metals (ppm)												
Arsenic	10	10	---	---	---	2.64	NA	29.7	NA	4.51	57.5	16.9
Barium	4700	140000	---	---	---	37.4	NA	57.2	NA	82.2	75.8	43.3
Cadmium	34	1000	---	---	---	0.593	NA	0.763	NA	0.511	0.797	0.601
Chromium	100*	100*	---	---	---	13.2	NA	13.2	NA	9.4	17.3	8.8
Lead	500	1000	---	---	---	75	NA	62.1	NA	84.6	99.3	66.1
Mercury	20	610	---	---	---	ND	NA	ND	NA	ND	ND	0.59
SPLP Metals (ppm)												
Arsenic	---	---	0.05	---	---	ND	NA	ND	NA	ND	ND	ND
Barium	---	---	1	---	---	0.05	NA	0.12	NA	0.06	ND	0.04
Chromium, total	---	---	0.05	---	---	ND	NA	ND	NA	ND	0.02	ND
Lead	---	---	0.015	---	---	0.03	NA	0.02	NA	ND	ND	0.01
Total Petroleum Hydrocarbons (TPH) (ppm)												
TPH	500	2500	500	---	---	ND	NA	5	NA	ND	38	32
Polychlorinated Biphenyls (PCBs) (ppm)												
Total PCBs	1	10	0.0005	---	---	NA	NA	NA	NA	ND	ND	ND
Chlorinated Herbicides (ppm)												
Total Herbicides	---	---	---	---	---	NA	NA	NA	NA	ND	ND	ND
Pesticides (ppm)												
Total Pesticides	---	---	---	---	---	NA	NA	NA	NA	ND	ND	ND

Table 2 (continued)
Soil Analytical Results
Guilford and Clinton Railroad Stations
Guilford and Clinton, Connecticut

Substance	CTDEP Criteria					Sample ID/Depth (feet) Clinton Railroad Station				
	RDEC (ppm)	IDEC (ppm)	GA PMC (ppm)	RVC (ppm)	IVC (ppm)	GP-9 (0-1)	GP-10 (0-4)	GP-11 (0-1)	GP-12 (0-4)	SS-3 (0-0.5)
Volatile Organic Compounds (VOCs) (ppm)										
Chloroform	100	940	0.12	4.5	10.4	ND	ND	ND	ND	ND
Dichlorodifluoromethane	---	---	---	---	---	0.016	0.0045	0.024	0.072	0.0078
Methylene chloride	82	760	0.1	1200	2907	0.021	0.0084	0.024	0.03	0.016
Tetrachloroethene	12	110	0.1	1500	3820	ND	0.0012	ND	ND	ND
Semivolatile Organic Compounds (SVOCs) (ppm)										
Acenaphthylene	1000	2500	8.4	---	---	ND	ND	ND	ND	ND
Benz(a)anthracene	1	7.8	1	---	---	**2.0**	ND	ND	ND	ND
Benzo(b)fluoranthene	1	7.8	1	---	---	**2.5**	ND	ND	ND	ND
Benzo(k)fluoranthene	8.4	78	1	---	---	**2.9**	ND	**1.8**	ND	ND
Benzo(a)pyrene	1	1	1	---	---	ND	ND	ND	ND	ND
Chrysene	84	780	1#	---	---	**2.5**	ND	ND	ND	ND
Fluoranthene	1000	2500	5.6	---	---	3.9	ND	2.0	0.17	0.18
Indeno(1,2,3-cd)pyrene	1#	7.8	1#	---	---	ND	ND	ND	ND	ND
Phenanthrene	1000	2500	4	---	---	ND	ND	ND	ND	ND
Pyrene	1000	2500	4	---	---	3.8	ND	1.7	0.17	0.2
Total Metals (ppm)										
Arsenic	10	10	---	---	---	6.09	0.855	2.99	1.42	1.29
Barium	4700	140000	---	---	---	54	23	58	27.4	25.7
Cadmium	34	1000	---	---	---	0.939	ND	0.81	ND	ND
Chromium	100*	100*	---	---	---	15.3	5.4	7.0	7.7	4.5
Lead	500	1000	---	---	---	103	15.1	62.1	26.4	25.8
Mercury	20	610	---	---	---	ND	ND	ND	ND	ND
SPLP Metals (ppm)										
Arsenic	---	---	0.05	---	---	ND	ND	ND	ND	ND
Barium	---	---	1	---	---	ND	ND	ND	0.01	ND
Chromium, total	---	---	0.05	---	---	ND	ND	ND	ND	ND
Lead	---	---	0.015	---	---	**0.02**	ND	0.01	ND	ND
Total Petroleum Hydrocarbons (TPH) (ppm)										
TPH	500	2500	500	---	---	12	ND	39	5	ND
Polychlorinated Biphenyls (PCBs) (ppm)										
Total PCBs	1	10	0.0005	---	---	ND	NA	NA	ND	ND
Chlorinated Herbicides (ppm)										
Total Herbicides	---	---	---	---	---	ND	NA	NA	ND	ND
Pesticides (ppm)										
Total Pesticides	---	---	---	---	---	ND	NA	NA	ND	ND

Notes:
Only those compounds detected are shown.
ppm - indicates parts per million.
RDEC - Residential Direct Exposure Criteria.
IDEC - Industrial/Commercial Direct Exposure Criteria
GA PMC - Pollutant Mobility Criteria for GA Groundwater Area.
SPLP - Synthetic Precipitation Leaching Procedure.
--- - indicates no applicable CTDEP-established criteria.
NA - Indicates compound was not analyzed.
ND - indicates analyte was not detected
- criterion is based upon detection limits.
* - indicates no established RDEC or IDEC for total chromium. For comparison, CTDEP-established values for hexavalent chromium were used.
Shading/Bolding indicates the analyte concentration exceeds CTDEP-established criterion.
A criterion of 1 ppm using mass analysis may be used to assess PCB impacts for pollutant mobility.

Prepared by: MP
Checked by: LEW

Guilford Railroad Station. All detections of VOCs were well below the established CTDEP RSR criteria for the constituents detected in soil samples.

Clinton Railroad Station. All detections of VOCs were well below the established CTDEP RSR criteria for the constituents detected in soil samples.

Semivolatile Organic Compounds

Laboratory analysis indicates that SVOCs were detected in eight soil samples from the Guilford and Clinton Railroad Stations.

Guilford Railroad Station. Laboratory analysis indicates that SVOCs were detected in four soil samples from the Guilford Railroad Station. Two exceedances of the CTDEP RDEC were noted in soil samples GP-4 (0-4) and GP-3 (0-4). Eleven compound exceedances of established CTDEP GA PMC criteria were noted in GP-2 (0-4), GP-3 (0-4), and GP-4 (0-4). No other SVOC exceedances of CTDEP-established criteria were noted at the Guilford Railroad Station.

Clinton Railroad Station. Laboratory analysis indicates that SVOCs were detected in four soil samples from the Clinton Railroad Station. Two exceedances of the CTDEP RDEC were noted in GP-9 (0-1) for the compounds benz(a)anthracene and benzo(k)fluoranthene. Five compound exceedances of the CTDEP GA PMC were noted in GP-9 (0-1) and GP-11 (0-1). No other SVOC exceedances of CTDEP-established criteria were noted.

RCRA-8 Metals (Mass Analysis)

Guilford Railroad Station. Laboratory results indicate that metals were detected in all five of the soil samples analyzed for metals. Three exceedances of established CTDEP RDEC and IDEC for arsenic were noted: GP-2 (0-4) at a concentration of 29.7 mg/kg (ppm); GP-4 (0-4) at a concentration of 57.5 mg/kg (ppm); and SS-1 (0.0-0.5) at a concentration of 16.9 mg/kg (ppm). No other RCRA-8 metal exceedances of established CTDEP criteria were noted from soils collected from the Guilford Railroad Station.

Clinton Railroad Station. Laboratory results indicate that metals were detected in all five of the soil samples analyzed for metals. No exceedances of established CTDEP criteria for metals were noted at the Clinton Railroad Station.

SPLP RCRA-8 Metals

Laboratory results indicate that SPLP RCRA-8 metals were detected in eight soil samples collected from the Guilford and Clinton Railroad Stations.

Guilford Railroad Station. Laboratory analysis indicates that RCRA-8 metals were detected in all five of the soil samples analyzed for SPLP metals at the Guilford Railroad Station. Exceedances of SPLP lead were noted in GP-1 (0-4) at a concentration of 0.03 mg/L and in GP-2 (0-4) at a concentration of 0.02 mg/L. No other exceedances in SPLP RCRA-8 metals were noted at the Guilford Railroad Station.

Clinton Railroad Station. Laboratory analysis indicates that RCRA-8 metals were detected in three soil samples collected from the Clinton Railroad Station. One exceedance of SPLP lead was noted in GP-9 (0-1) at a concentration of 0.02 mg/L. No other exceedances of established CTDEP criteria were noted at the Clinton Railroad Station.

Total Petroleum Hydrocarbons

Laboratory analysis indicates that TPH was detected in six samples from the Guilford and Clinton Railroad Stations. None of the detections exceeded any of the established CTDEP criteria.

PCBs, Pesticides, and Herbicides

Laboratory analysis indicates that no PCBs, pesticides, and herbicides were detected above laboratory detection limits for six soil samples collected and analyzed from the Guilford and Clinton Railroad Stations.

The presence of SVOCs and TPH (which are common waste oil and hydraulic fluid constituents) could be attributed to railcar spills, possible historic applications of waste oils, or the unknown nature of the fill material along the railroad ROW. The detections of metals (including arsenic) and SPLP metals (including lead) could be attributed to the artificial fill used within the ROW.

7.2.2 Groundwater Analytical Results

One groundwater sample was collected from a temporary monitoring wells GW-1 at the Guilford Railroad Station. The sample was analyzed for VOCs, SVOCs, and metals. Groundwater results are presented in Table 3, which gives a comparison between detected concentrations and the CTDEP RSRs. Laboratory analytical results are provided in Appendix C. Analytical results above applicable CTDEP RSRs are shown on Figures 3.

Table 3
Groundwater Analytical Results Summary
Guilford Railroad Station
Guilford, Connecticut

Substance	CTDEP Criteria				Sample ID
	GA GWPC (µg/L)	SWPC (µg/L)	RVC (µg/L)	IVC (µg/L)	Guilford RR Station GW-1 (µg/L)
Volatile Organic Compounds (VOCs) (ppb)					
Dichlorodifluoromethane	---	—	—	---	2.3
Semivolatile Organic Compounds (SVOCs) (ppb)					
SVOCs	---	---	---	---	ND
RCRA-8 Metals (ppb)					
Barium	1000	---	---	---	10.0

Notes: Only detected compounds are shown.

ppm - indicates parts per million
ppb - indicates parts per billion
GA GWPC - Groundwater Protection Criteria for a GA groundwater area.
SWPC - Surface Water Protection Area
RVC - Residential Volatilization Criteria
IVC - Industrial/Commercial Volatilization Criteria
--- - indicates no applicable CTDEP-established criterion for compound(s)
Shading/Bolding indicates that the analyte concentration exceeds CTDEP-established criterion.

Volatile Organic Compounds

Only one VOC was detected (dichlorodifluoromethane) in groundwater collected from the Guilford (at GW-1) Railroad Station. No exceedances of established CTDEP criteria were noted for groundwater. No other detections of VOCs were noted above laboratory detection limits.

Semivolatile Organic Compounds

SVOCs were not detected above the laboratory detection limits at the Guilford Railroad Station.

RCRA-8 Metals

One detection of metals (barium at 10 ppb) at the Guilford Railroad Station was noted. No other concentrations of metals above laboratory detection limits were noted in groundwater sample from the Guilford Railroad Station. The detected analyte was not present above established CTDEP criteria.

The presence of metals (barium) at the Guilford Railroad Station is possibly attributable to natural sources or to the nature of the material. The presence of dichlorodifluoromethane in groundwater collected from the Guildford Railroad Station is speculated to be due to possible laboratory contamination. This will be discussed in subsection 7.2.3, Quality Assurance/Quality Control (QA/QC).

7.2.3 Quality Assurance/Quality Control

QA/QC samples included one duplicate surface-soil sample, two duplicate subsurface-soil samples, one equipment rinsate blank, and two trip blanks. The duplicate samples were analyzed for all of the same parameters as the parent samples, the rinsate samples were analyzed for the same parameters as the samples which were collected with the equipment prior to the collection of the rinsate, and the trip blanks were analyzed for VOCs.

7.2.3.1 Duplicate Sample Results

For subsurface soils, the parent soil sample and duplicate soil sample was collected, logged and sampled according to GEI/Atlantic soil sampling protocol, and placed directly into pre-cleaned soil jars with a Teflon™-lined cap. Soil was collected from the entire length of the Geoprobe™ acetate sleeve and placed directly into the parent soil jar. Soil was then collected from along the length of the same interval and placed into a separate duplicate soil sample jar. This process was repeated until both the parent and duplicate soil sample jar were filled. The parent soil sample was marked with a sample identification number, time, date and

project number, and the duplicate soil sample was given a fictitious sample identification number and time. The sample was then sealed and placed into an ice-filled cooler and delivered to the laboratory for analysis. The parent subsurface-soil sample and its duplicate is indicated as follows: GP-1 (0-4) is the parent sample with a duplicate sample of GP-12/8/99B with a fictitious time of 8:30 a.m.

The duplicate sample analytical results are summarized on Tables 4.

Table 4
Duplicate Sample Summary
GP-12/8/99B

Analyte	Parent Sample Results GP-1 (0-4)	Duplicate Sample Results GP-12/8/99B	RPD
Volatile Organic Compounds (VOCs) (ppm)			
Chloroform	0.0012	ND	NC
Dichlorodifluoromethane	0.013	0.007	60 %
Methylene Chloride	0.014	0.020	35 %
Styrene	ND	1.8	NC
Semivolatile Organic Compounds (SVOCs) (ppm)			
Acenaphthylene	ND	0.340	NC
Anthracene	ND	0.180	NC
Benz(a)anthracene	ND	0.780	NC
Benzo(b)fluoranthene	ND	1.2	NC
Benzo(k)fluoranthene	0.2	1.4	150 %
Benzo(g,h,i)perylene	ND	0.620	NC
Benzo(a)pyrene	ND	0.360	NC
Chrysene	0.2	1.2	143 %
Dibenz(a,h)anthracene	ND	0.170	NC
Fluoranthene	0.3	1.8	143 %
Indeno(1,2,3-cd)pyrene	ND	0.570	NC
Phenanthrene	ND	0.640	NC
Pyrene	0.31	2.0	147 %
RCRA-8 Metals (ppm)			
Lead	75.0	48.0	44 %
Barium	37.4	37.4	0 %
Cadmium	0.593	0.547	8 %
Chromium	13.2	14.9	12 %
Arsenic	2.64	2.52	5%
SPLP RCRA-8 Metals (mg/L)			
Barium	0.05	0.01	133 %
Lead	0.03	0.02	40%

Notes: Those analytes detected in either sample are shown.
ND indicates not detected.
NC indicates that the relative percent difference (RPD) was not able to be calculated because a non-detected analyte was present in the parent sample or duplicate.
RPD means Relative Percent Difference = difference/mean times 100.

Generally, the relative percent difference between the parent sample GP-1 (0-4) and the duplicate soil sample GP-12/8/99B did not fall within the acceptable relative percent difference of 30 percent. These differences are likely to be explained by the inherit heterogeneity of the soil. The VOC variability in the relative percent difference between the GP-1 (0-4) and GP-12/8/99B samples is likely attributable to laboratory contamination from methylene chloride and dichlorodifluoromethane, which were also found in the trip blank. The trip blank results are discussed in detail in subsection 7.2.3.3.

7.2.3.2 Rinsate Sample Results

A rinsate sample, FB-12/8/99, was collected at the GP-3 location at the Guilford Railroad Station. The rinsate sample was collected with laboratory-provided organic-free water which was poured over a soil spatula which was decontaminated (as specified in GEI/Atlantic Task 210 work plan) and an unused nitrile sampling glove into the appropriate laboratory-provided sampling container for analysis. The rinsate sample is completed to ensure that sampling equipment has been decontaminated between samples and the disposable equipment is not contaminated. The following laboratory tests were completed on FB-12/8/99: VOCs, SVOCs, RCRA-8 metals, PCB, pesticides, herbicides. A summary of results is presented in Table 7.

Table 5
Rinsate Sample Summary
FB-12/8/99

Analyte	Results
Volatile Organic Compounds (VOCs) (ppb)	
Dichlorodifluoromethane	2.2
Semivolatile Organic Compounds (SVOCs) (ppb)	
SVOCs	ND
RCRA-8 Metals (ppm)	
RCRA-8 metals	ND
Total Petroleum Hydrocarbons (TPH) (ppm)	
TPH	ND
Polychlorinated Biphenyls (PCBs) (ppb)	
PCB	ND
Pesticides	
Pesticides	ND
Herbicides	
Herbicides	ND

Notes: Those analytes detected in either sample are shown.

Only one detection (dichlorodifluoromethane at a concentration of 2.2 ppb) was noted in FB-12/8/99. This detection is interpreted to be laboratory contamination because dichlorodifluoromethane was also found within the trip blank. This detection is discussed in subsection 7.2.3.3 of this report. No other concentrations above laboratory detection limits were noted for FB-12/8/99.

7.2.3.3 Trip Blank Results

The trip blank consisted of two sample jars prepared and sealed at the laboratory which accompanied soil and groundwater samples in the field. The trip blanks (TB-12/8/99 and TB-12/8/99A) were submitted to the laboratory for VOC analysis as part of this investigation. Results indicate that dichlorodifluoromethane was present in TB-12/8/99 at a concentration of 2.2 μg/L (ppb) and methylene chloride (a common laboratory instrument cleaning solution) was present at a concentration of 1.0 μg/L (ppb). Similar results were detected in TB-12/8/99A with dichlorodifluoromethane detected at a concentration of 2.2 μg/L (ppb) and methylene chloride was detected at a concentration of 1.0 μg/L (ppb). The presence of VOCs (dichlorodifluoromethane and methylene chloride) in the TB-12/8/99 and TB-12/8/99 is interpreted as laboratory contamination because the trip blanks were prepared and sealed at the laboratory. The detections of these VOCs in the majority of the soil samples and the field blank are also speculated to be potential laboratory contamination.

7.2.3.4 Laboratory QA/QC Review

In addition, a cursory review of the laboratory-provided data packet indicates methylene chloride was detected in the laboratory method blanks at concentrations of 1.4 μg/L (ppb), 1.6 ug/L (ppb), and 1.8 ug/L (ppb), and dichlorodifluoromethane was detected at a concentration of 2 ug/L (ppb) and 4 ug/L (ppb) in laboratory project number 9912000141. This packet contained the following samples: FB-12/8/99, TB-12/8/99, GW-1, GP-4 (0-4), GP-3 (0-4), GP-1 (0-4), GP-1 (4-8), GP-12/8/99B, and GP-2 (0-4). In laboratory project number 9912000142, methylene chloride was detected in the method blank at 1.6 ug/L, 1.8 ug/L , and 1.7 ug/L, and dichlorodifluoromethane was detected in the method blank at 2.4 ug/L (ppb) and 2.5 ug/L (ppb). This packet contained the following samples: GP-2 (4-8), TB-12/8/99A, and SS-1 (0.0-0.5). In laboratory project number 9912000143, methylene chloride was detected in the method blank at a concentration of 1.7 ug/L (ppb) and dichlorodifluoromethane was detected in the method blank at a concentration of 2.5 ug/L (ppb). This packet contained the following samples GP-9 (0-1), GP-10 (0-4), GP-11 (0-1), GP-12 (0-4), and SS-3 (0.0-0.5). The detections of methylene chloride and dichlorodifluoromethane in the laboratory method blanks infer that the detection of these analytes in the soil and groundwater samples is possibly laboratory contamination.

As part of the QA/QC of the laboratory data packs, it was discovered that the laboratory mean detection limits for SVOCs in groundwater did not attain CTDEP criteria for some of the analytes. A laboratory representative was contacted regarding the problem. He indicated that this is attributable to the imprecision of laboratory instrumentation.

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8.0 RECEPTORS

The following is a summary of affected environmental media and associated potential receptors.

8.1 Groundwater and Soils

Receptors of contaminated soils could include construction workers via direct exposure and area residents via exposure to windblown particles from the construction activities. Contaminated soil that is excavated could also migrate to nearby surface waters through overland flow or other pathways.

One residential well is located adjacent to the Guilford Railroad Station and two public water supply wells are located 650± meters [2,115± feet] northwest of the Clinton Railroad Station. The potential for exposure of these groundwater sources to contamination is interpreted as low because of the limited proposed on-site excavation activities.

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9.0 SUMMARY AND CONCLUSIONS

A Task 210 field investigation was completed for ConnDOT at the Guilford and Clinton Railroad Stations. ConnDOT has proposed the construction of elevated platform and pedestrian track crossings (including elevators and ramps) at the Guilford Railroad Station and elevated platforms at the Clinton Railroad Station (ConnDOT Project No. 0310-0007). The field investigation was performed to assess potential on-site contamination from past spills and historic applications of waste oils, and the unknown characteristics of fill materials and possible impacts from potential off-site sources of contamination that could possibly impact the proposed construction areas.

Based on the review of analytical results obtained from the field investigation, several detections of VOCs, SVOCs, RCRA-8 metals, SPLP RCRA-8 metals, and TPH were detected in soils from both of the railroad stations and VOCs and the RCRA-8 metal barium were detected in groundwater at the Guilford Station only. Of the detected constituents in soils at the Guilford Railroad Station, detectable levels of either SVOCs, arsenic, or SPLP lead exceeded the RDEC, IDEC and/or GA PMC criteria in soils collected from GP-1 (0-4), GP-2 (0-4), GP-3 (0-4), GP-4 (0-4), and SS-1 (0.0-0.5). Detectable levels of SVOCs and SPLP lead exceeded the established CTDEP levels for either RDEC, IDEC, or the GA PMC in GP-9 (0-1) and GP-11 (0-1) at the Clinton Railroad Station. All other detections in soils at the railroad stations were found at levels below applicable CTDEP criteria.

Given the results of the field investigation, the potential exists that construction workers involved with the disturbance of the upper 1.22± meters [4± feet] of the ROW fill material at the Guilford and Clinton Railroad Stations may be exposed to SVOCs and arsenic above the applicable CTDEP RDEC values based upon proposed construction plans. Other soils within the proposed construction areas had detectable levels of VOCs, RCRA-8 metals, SPLP RCRA-8 metals, and TPH, which may require special disposal, handling or re-use considerations. This study was based upon proposed construction depths of 3.05 meters [10 feet] bgs at the Guilford Railroad Station and 1.22 meters [4 feet] bgs at the Clinton Railroad Station. If construction activities should extend below the screened depths at the Guilford and Clinton Railroad Stations, or if groundwater is encountered at the Clinton Railroad Station, then soil or groundwater samples should be screened to characterize the materials. Given the presence of contaminants identified within the proposed construction areas, a Task 310, Materials Management Plan, should be developed to manage potentially impacted soils during construction activities.

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10.0 LIMITATIONS

The investigation described in this report and this report were conducted and prepared on behalf of and for the exclusive use of ConnDOT and its counsel. No other entity may rely upon the results of the investigation or contents of this report for any reason or purpose whatsoever.

The conclusions summarized herein were based on the limited observations and investigations described within this submittal at the time the investigation was conducted. Future events at the site or the surrounding properties may alter these findings.

In preparing this report, GEI relied on direction and certain information provided by state and local officials, and information and representations made available to GEI at the time of the assessment. To the extent that such information is incomplete or inaccurate, GEI is not responsible. To the extent that specific subsurface conditions have not been characterized or identified, GEI is not responsible.

GEI has performed this study in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. The conclusions provided by GEI are based solely on the scope of work conducted, and on observations and limited explorations described within this submittal at the time these services were conducted. No other warranty, expressed or implied, is made as to the professional opinions included by GEI in this report.

REFERENCES

1. *Community Water Systems in Connecticut*: A 1984 Inventory. CTDEP, Natural Resources Center.

2. *Water Quality Classifications Connecticut River and South-Central Coastal River Basins. (Sheet 3 of 3).* Connecticut Department of Environmental Protection: Bureau of Water Management, Planning and Standards Division. Adopted February 1993.

3. *Atlas of the Public Water Supply Sources and Drainage Basins of Connecticut.* June 1982, D.E.P. Bulletin No. 4, CTDEP and Natural Resources Center.

APPENDIX A

METRIC EQUIVALENT UNITS

METRIC EQUIVALENTS

Metric Lengths

1 millimeter (mm)			=	0.03937 in.		
10 millimeters	=	1 centimeter (cm)	=	0.3937 in.		
10 centimeters	=	1 decimeter	=	3.937 in.		
10 decimeters	=	1 meter (m)	=	3.28 feet	=	1.093611 yd.
10 meters	=	1 dekameter	=	10.93611 yd.		
100 meters	=	1 hectometer	=	109.3611 yd.		
1000 meters	=	1 kilometer	=	0.62137 miles		
1 inch	=	2.54 centimeters				
1 foot	=	0.3048 meters				
1 yard	=	0.914401 meters				
1 mile	=	1.609347 kilometers				

Metric Volumes and U.S. Equivalents

1000 cu. millimeters	=	1 cu. centimeter	=	0.06102 cu. in.
1000 cu. centimeters	=	1 cu. decimeter		
1000 cu. decimeter	=	1 cu. meter (stere)	=	1.3097 cu. yds or 35.314 cu. ft.
1 cu. inch	=	16.387 cu. centimeters		
1 cu. foot	=	0.028317 cu. meters		
1 cu. yard	=	0.7646 cu. meters		

Metric Areas and U.S. Equivalents

100 sq. millimeters	=	1 sq. centimeter (sq. cm.)		
100 sq. centimeters	=	1 sq. decimeter	=	15.5 sq. in.
100 sq. decimeters	=	1 sq. meter (centare)	=	1.196 sq. yds.
100 sq. meters	=	1 are	=	119.6 sq. yds.
10,000 sq. meters	=	1 hectare	=	2.47103 acres
100 hectares	=	1 sq. kilometer	=	0.38610 sq. mi.
1 sq. inch	=	6.45165 sq. centimeters		
1 sq. foot	=	9.290034 sq. decimeters		
1 sq. yard	=	0.836131 sq. meters		
1 acre	=	0.40469 hectares		
1 sq. mile	=	2.59 sq. kilometers	=	259 hectares

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SOIL BORING LOG GP-1

Boring/Well ID:	**GP-1**	**Client:**	**Connecticut Department of Transportation**
Project Number:	**99459**	**Project Name:**	**Guilford, Madison, Clinton Railroad Stations**
Logged By:	**Lynn Willey**	**Site Address:**	**Guilford Railroad Station**
Date:	**12/8/99**	**Contractor:**	**Earth Technologies Incorporated**
Total Depth:	**10 feet**	**Driller:**	**Geoff Parker**

Depth (feet)	Blow Counts	Recovery (Feet)	PID (ppm)	Soil Description
0.0-4.0	NA	3.2	0.4	0.0-2.0: Black, fine SAND, little silt, trace fine gravel and coal dust/ fragments and ash, non-cohesive, loose, moist. No odors noted. Black color (staining) noted. 2.0-4.0: Brown to tan-brown, fine to medium SAND, trace silt, well-sorted, non-cohesive, moist. No odors or visual contamination noted. Approximate groundwater table at 4.0' below ground surface. SAMPLE: GP-1 (0-4) and duplicate GP-12/8/99B
4.0-8.0	NA	4.0	3.9	4.0-7.0: Brown, very fine to medium SAND, non-cohesive, well-sorted, saturated. No odors or visual contamination noted. (SW) 7.0-8.0: Brown, very fine SAND, non-cohesive, well-sorted, saturated. No odors or visual contamination noted. (SW) SAMPLE: GP-1 (4-8)
8.0-10.0	NA	2.0	0.7	8.0-10.0: Brown, very fine to fine SAND, some mica flakes, non-cohesive saturated. No odor or visual contamination noted. (SW) End of Boring 10.0 feet.

NA-Indicates not applicable because no blow counts are able to be recorded with Geoprobe™ drilling technique.
PID (ppm)-PID readings are based upon headspace PID readings
(SW)-Indicates Unified Soil Classification of sampled soils

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SOIL BORING LOG GP-2

Boring/Well ID:	**GP-2**	**Client:**	**Connecticut Department of Transportation**
Project Number:	**99459**	**Project Name:**	**Guilford, Madison, Clinton Railroad Stations**
Logged By:	**Lynn Willey**	**Site Address:**	**Guilford Railroad Station**
Date:	**12/8/99**	**Contractor:**	**Earth Technologies Incorporated**
Total Depth:	**10 feet**	**Driller:**	**Geoff Parker**

Depth (feet)	Blow Counts	Recovery (Feet)	PID (ppm)	Soil Description
0.0-4.0	NA	3.2	0.2	Bituminous pavement. 0.0-1.5: Brown to tan, fine SAND, some silt and angular gravel, non-cohesive, medium dense, dry. No odor or visual contamination. (SM) 1.5-3.0: Black, fine SAND, trace silt, non-cohesive loose, dry to slightly moist. No odor noted. Black-colored (staining) soils. (SP) 3.0-4.0: Dark brown, fine SAND, trace silt, non-cohesive, loose, moist. No odor or visual contamination noted. (SP) SAMPLE: GP-2 (0-4) Approximate groundwater table at 4.0' below ground surface.
4.0-8.0	NA	4.0	0.0	4.0-7.0: Brown, fine to medium SAND, trace coarse SAND in layers, non-cohesive, moderately dense, saturated. No odors or visual contamination noted. (SW) 7.0-8.0: Brown, very fine SAND, trace silt, saturated. No odor or visual contamination noted. (SW) SAMPLE: GP-2 (4-8)
8.0-10.0	NA	2.0	0.0	8.0-10.0: Same as above, saturated. No odors or visual contamination noted. (SW) End of boring 10.0 feet below ground surface.

NA-Indicates not applicable because no blow counts are able to be recorded with Geoprobe™ drilling technique.
PID (ppm)-PID readings are based upon headspace PID readings
(SW)-Indicates Unified Soil Classification of sampled soils

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SOIL BORING LOG GP-3

Boring/Well ID:	GP-3	**Client:**	**Connecticut Department of Transportation**
Project Number:	99459	**Project Name:**	**Guilford, Madison, Clinton Railroad Stations**
Logged By:	Lynn Willey	**Site Address:**	**Guilford Railroad Station**
Date:	12/8/99	**Contractor:**	**Earth Technologies Incorporated**
Total Depth:	4 feet	**Driller:**	**Geoff Parker**

Depth (feet)	Blow Counts	Recovery (Feet)	PID (ppm)	Soil Description
0.0-4.0	NA	3.8	0.4	0.0-2.0: Black, silty-SAND, trace fine gravel and coal fragments, non-cohesive, loose, slightly moist. No odors noted. Black color (staining) noted. (SM) 2.0-4.0: Brown, fine to medium SAND, trace silt, little coarse sand, non-cohesive, loose, dry. No odors or visual contamination noted. (SP) SAMPLE: GP-3 (0-4) End of boring at 4.0 feet below ground surface. NA-Indicates not applicable because no blow counts are able to be recorded with Geoprobe™ drilling technique. PID (ppm)-PID readings are based upon headspace PID readings (SW)-Indicates Unified Soil Classification of sampled soils

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SOIL BORING LOG GP-4

Boring/Well ID:	**GP-4**	**Client:**	**Connecticut Department of Transportation**
Project Number:	**99459**	**Project Name:**	**Guilford, Madison, Clinton Railroad Stations**
Logged By:	**Lynn Willey**	**Site Address:**	**Guilford Railroad Station**
Date:	**12/8/99**	**Contractor:**	**Earth Technologies Incorporated**
Total Depth:	**4 feet**	**Driller:**	**Geoff Parker**

Depth (feet)	Blow Counts	Recovery (Feet)	PID (ppm)	Soil Description
0.0-4.0	NA	3.2	0.0	Bituminous pavement. 0.0-1.0: Brown to tan, SILT and SAND, some angular gravel, non-cohesive, dry. No odor or visual contamination noted. (SM) 1.0-2.75: Black, fine SAND, trace coal fragments and gravel, non-cohesive, loose. No odors noted. Black color (staining) noted. (SP) 2.75-4.0: Medium brown, fine to medium SAND, non-cohesive, dry to slightly moist. No odor or visual contamination noted. (SW) SAMPLE: GP-4 (0-4) End of boring at 4.0 feet below ground surface. NA-Indicates not applicable because no blow counts are able to be recorded with Geoprobe™ drilling technique. PID (ppm)-PID readings are based upon headspace PID readings (SW)-Indicates Unified Soil Classification of sampled soils

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SOIL BORING LOG GP-5

Boring/Well ID:	**GP-5**	**Client:**	**Connecticut Department of Transportation**
Project Number:	**99459**	**Project Name:**	**Guilford, Madison, Clinton Railroad Stations**
Logged By:	**Lynn Willey**	**Site Address:**	**Madison Railroad Station**
Date:	**12/8/99**	**Contractor:**	**Earth Technologies Incorporated**
Total Depth:	**10 feet**	**Driller:**	**Geoff Parker**

Depth (feet)	Blow Counts	Recovery (Feet)	PID (ppm)	Soil Description
0.0-4.0	NA	2.8	0.0	0.0-1.5: Black to dark brown, fine to medium SAND (FILL), some coarse slag, non-cohesive, dry. No odors noted. Black color (staining) noted. (SP) 1.5-4.0: Brown, fine to medium SAND, trace coarse SAND, non-cohesive, loose, dry. No odor or visual contamination noted. (SW) SAMPLE: GP-5 (0-4)
4.0-8.0	NA	0.5	0.0	Brown to light brown, fine to medium SAND, non-cohesive, loose, dry. No odor or visual contamination noted. (SW) Note: Acetate sleeve bound up inside the macro core resulting in low sample recovery.
8.0-10.0	NA	2.0	0.0	Brown to light brown, fine to medium SAND, some coarse sand, well sorted, distinct layers throughout sample, moderately dense, wet. No odor or visual contamination noted. (SW) SAMPLE: GP-5 (8-10) Note: Approximate depth to groundwater is 9.0 feet below ground surface. End of boring 10 feet below ground surface.

NA-Indicates not applicable because no blow counts are able to be recorded with Geoprobe™ drilling technique.
PID (ppm)-PID readings are based upon headspace PID readings
(SW)-Indicates Unified Soil Classification of sampled soils

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SOIL BORING LOG GP-6

Boring/Well ID:	GP-6	**Client:**	Connecticut Department of Transportation
Project Number:	99459	**Project Name:**	Guilford, Madison, Clinton Railroad Stations
Logged By:	Lynn Willey	**Site Address:**	Madison Railroad Station
Date:	12/8/99	**Contractor:**	Earth Technologies Incorporated
Total Depth:	8 feet	**Driller:**	Geoff Parker

Depth (feet)	Blow Counts	Recovery (Feet)	PID (ppm)	Soil Description
0.0-2.0	NA	1.0	NM	0.0-2.0: Brown, fine SAND, some silt, non-cohesive, non-plastic, loose, moist. No odor or visual contamination noted. (SM) SAMPLE: GP-6 (0-2)
2.0-4.0	NA	2.0	NM	2.0-4.0: Brown to orange-brown, fine to medium SAND, well-sorted, non-cohesive, loose, dry. No odors or visual contamination noted. (SW) SAMPLE: GP-6 (2-4)
4.0-6.0	NA	1.7	NM	4.0-6.0: Brown to orange-brown to light brown, fine to medium SAND, trace coarse sand, well-sorted, trace silt, non-cohesive, loose, dry. (SW)
6.0-8.0	NA	1.7	NM	6.0-8.0: Orange-brown to light brown, fine to medium SAND, some layers of light tan fine sand, non-cohesive, loose, dry. No odors or visual contamination noted. (SW) SAMPLE: GP-6 (6-8) Note: GP-6 (6-8) was the last sample at GP-6 location because drillers did not have enough rods for hand driven Geoprobe™ to complete the boring to 10'.
				End of boring 8.0 feet below ground surface.
				NA-Indicates not applicable because no blow counts are able to be recorded with Geoprobe™ drilling technique. NM-Indicates PID readings were not taken because of insufficient sample volume. PID (ppm)-PID readings are based upon headspace PID readings (SW)-Indicates Unified Soil Classification of sampled soils

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SOIL BORING LOG GP-7

Boring/Well ID:	**GP-7**	**Client:**	**Connecticut Department of Transportation**
Project Number:	**99459**	**Project Name:**	**Guilford, Madison, Clinton Railroad Stations**
Logged By:	**Lynn Willey**	**Site Address:**	**Madison Railroad Station**
Date:	**12/8/99**	**Contractor:**	**Earth Technologies Incorporated**
Total Depth:	**4 feet**	**Driller:**	**Geoff Parker**

Depth (feet)	Blow Counts	Recovery (Feet)	PID (ppm)	Soil Description
0.0-4.0	NA	3.3	0.0	0.0-0.33: Bituminous pavement and roadbase. 0.33-4.0: Dark brown to brown, fine SAND, some silt, trace fine gravel, non-cohesive, dry. No odor or visual contamination noted. (SM) SAMPLE: GP-7 (0-4) and duplicate GP-12/8/99 End of boring at 4.0 feet below ground surface. NA-Indicates not applicable because no blow counts are able to be recorded with Geoprobe™ drilling technique. PID (ppm)-PID readings are based upon headspace PID readings (SW)-Indicates Unified Soil Classification of sampled soils

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SOIL BORING LOG GP-8

Boring/Well ID:	**GP-8**	**Client:**	**Connecticut Department of Transportation**
Project Number:	**99459**	**Project Name:**	**Guilford, Madison, Clinton Railroad Stations**
Logged By:	**Lynn Willey**	**Site Address:**	**Madison Railroad Station**
Date:	**12/8/99**	**Contractor:**	**Earth Technologies Incorporated**
Total Depth:	**4 feet**	**Driller:**	**Geoff Parker**

Depth (feet)	Blow Counts	Recovery (Feet)	PID (ppm)	Soil Description
0.0-4.0	NA	1.9	0.0	0.0-4.0: Black to dark brown, fine to medium SAND, trace brick fragments and slag, slightly moist, non-cohesive, loose, slightly moist. No odors noted. Black color noted. (SP) SAMPLE: GP-8 (0-4) End of boring was approximately 4.0 feet below ground surface. NA-Indicates not applicable because no blow counts are able to be recorded with Geoprobe™ drilling technique. PID (ppm)-PID readings are based upon headspace PID readings (SW)-Indicates Unified Soil Classification of sampled soils

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SOIL BORING LOG GP-9

Boring/Well ID:	**GP-9**	**Client:**	**Connecticut Department of Transportation**
Project Number:	**99459**	**Project Name:**	**Guilford, Madison, Clinton Railroad Stations**
Logged By:	**Lynn Willey**	**Site Address:**	**Clinton Railroad Station**
Date:	**12/7/99**	**Contractor:**	**Earth Technologies Incorporated**
Total Depth:	**1 feet**	**Driller:**	**Geoff Parker**

Depth (feet)	Blow Counts	Recovery (Feet)	PID (ppm)	Soil Description
0.0-1.0	NA	1.0	NM	0.0-1.0: Dark brown to black, fine SAND, trace coarse gravel and slag, non-cohesive, loose, moist. No odor noted. Black color (staining) noted. SAMPLE: GP-9 (0-1) Note: Because of the limited space available. GP-9 was hand augered to a depth of 1.0 feet below ground surface. End of boring at 1.0 feet below ground surface. NA-Indicates not applicable because sample was hand augered due to limited. NM-Indicates PID readings were not taken because of insufficient sample volume. PID (ppm)-PID readings are based upon headspace PID readings (SW)-Indicates Unified Soil Classification of sampled soils

GEI Consultants, Inc.

ATLANTIC
ENVIRONMENTAL DIVISION

SOIL BORING LOG GP-10

Boring/Well ID:	**GP-10**	**Client:**	**Connecticut Department of Transportation**
Project Number:	**99459**	**Project Name:**	**Guilford, Madison, Clinton Railroad Stations**
Logged By:	**Lynn Willey**	**Site Address:**	**Clinton Railroad Station**
Date:	**12/7/99**	**Contractor:**	**Earth Technologies Incorporated**
Total Depth:	**4 feet**	**Driller:**	**Geoff Parker**

Depth (feet)	Blow Counts	Recovery (Feet)	PID (ppm)	Soil Description
0.0-4.0	NA	2.7	0.0	0.0-1.5: Black, fine to medium SAND, trace fine gravel, non-cohesive loose, dry to slightly moist. No odors noted. Black color (staining) noted. (SP) 1.5-4.0: Brown to tan, fine to medium SAND, non-cohesive, loose, dry. No odors or visual contamination noted. (SW) SAMPLE: GP-10 (0-4) End of boring at 4.0 feet below ground surface. NA-Indicates not applicable because no blow counts are able to be recorded with Geoprobe™ drilling technique. NM-Indicates PID readings were not taken because of insufficient sample volume. PID (ppm)-PID readings are based upon headspace PID readings (SW)-Indicates Unified Soil Classification of sampled soils

GEI Consultants, Inc.

ATLANTIC
ENVIRONMENTAL DIVISION

SOIL BORING LOG GP-11

Boring/Well ID:	**GP-11**	**Client:**	**Connecticut Department of Transportation**
Project Number:	**99459**	**Project Name:**	**Guilford, Madison, Clinton Railroad Stations**
Logged By:	**Lynn Willey**	**Site Address:**	**Clinton Railroad Station**
Date:	**12/8/99**	**Contractor:**	**Earth Technologies Incorporated**
Total Depth:	**1 feet**	**Driller:**	**Geoff Parker**

Depth (feet)	Blow Counts	Recovery (Feet)	PID (ppm)	Soil Description
0.0-1.0	NA	1.0	NM	0.0-1.0: Dark brown to black, fine SAND, trace coarse gravel and slag, non-cohesive, loose, moist. No odor noted. Black color (staining) noted. SAMPLE: GP-11(0-1) Note: Because of the limited space available. GP-11 was hand augered to a depth of 1.0 feet below ground surface. End of boring at 1.0 feet below ground surface. NA-Indicates not applicable because sample was hand augered due to limited space. NM-Indicates PID readings were not taken because of insufficient sample volume. PID (ppm)-PID readings are based upon headspace PID readings (SW)-Indicates Unified Soil Classification of sampled soils

GEI Consultants, Inc.

ATLANTIC
ENVIRONMENTAL DIVISION

SOIL BORING LOG GP-12

Boring/Well ID:	**GP-12**	**Client:**	**Connecticut Department of Transportation**
Project Number:	**99459**	**Project Name:**	**Guilford, Madison, Clinton Railroad Stations**
Logged By:	**Lynn Willey**	**Site Address:**	**Clinton Railroad Station**
Date:	**12/7/99**	**Contractor:**	**Earth Technologies Incorporated**
Total Depth:	**4 feet**	**Driller:**	**Geoff Parker**

Depth (feet)	Blow Counts	Recovery (Feet)	PID (ppm)	Soil Description
0.0-4.0	NA	3.1	0.0	0.0-1.0: Bituminous pavement and roadbase (Dark brown to grey, fine SAND, some silt, trace gravel, non-cohesive, dry. (SM) 1.0-2.0: Black, fine to medium SAND, non-cohesive, loose, moist. 2.0-4.0: Brown-tan, fine to medium SAND, trace gravel, dry. No odors noted from 0-4 feet. Black color (staining) noted from 1.0 to 2.0 feet below ground surface. SAMPLE: GP-12 (0-4) End of boring at 4.0 feet below ground surface. NA-Indicates not applicable because no blow counts are able to be recorded with Geoprobe™ drilling technique. PID (ppm)-PID readings are based upon headspace PID readings (SW)-Indicates Unified Soil Classification of sampled soils

Φ

APPENDIX C

LABORATORY ANALYTICAL RESULTS

ENVIRONMENTAL SCIENCE CORPORATION
Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Project Name: **Guilford/Madison/Clinton RR Stations**

Project Number: **99459**

Lab Report Number: **9912000143**

Purchase Order #: **N/A**

Date Received: **12/09/99**

Contract Number: **N/A**

Sample Prep Information

Prep	Client Sample ID	ESC Sample ID	Date Sampled	Matrix	Date/Time Prepped	Analyst	Hold Time
Herbicides (S)	GP-8 (0-4)	81818	12/08/99	Soil	12/17/99 18:00	BR	14 DAY
	GP-9 (0-1)	81821	12/08/99	Soil	12/17/99 18:00	BR	14 DAY
	GP-12 (0-4)	81824	12/08/99	Soil	12/17/99 18:00	BR	14 DAY
	SS-3 (0.0-0.5)	81825	12/08/99	Soil	12/17/99 18:00	BR	14 DAY
Pesticides/PCB (S)	GP-8 (0-4)	81818	12/08/99	Soil	12/15/99 10:00	BR	14 DAY
	GP-9 (0-1)	81821	12/08/99	Soil	12/15/99 10:00	BR	14 DAY
	GP-12 (0-4)	81824	12/08/99	Soil	12/15/99 10:00	BR	14 DAY
	SS-3 (0.0-0.5)	81825	12/08/99	Soil	12/15/99 10:00	BR	14 DAY
Semivolatile (S)	GP-8 (0-4)	81818	12/08/99	Soil	12/16/99 13:00	BR	14 DAY
	GP-5 (0-4)	81819	12/08/99	Soil	12/16/99 13:00	BR	14 DAY
	GP-9 (0-1)	81821	12/08/99	Soil	12/16/99 13:00	BR	14 DAY
	GP-10 (0-4)	81822	12/08/99	Soil	12/16/99 13:00	BR	14 DAY
	GP-11 (0-1)	81823	12/08/99	Soil	12/16/99 13:00	BR	14 DAY
	GP-12 (0-4)	81824	12/08/99	Soil	12/16/99 13:00	BR	14 DAY
	SS-3 (0.0-0.5)	81825	12/08/99	Soil	12/16/99 13:00	BR	14 DAY

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Lab Report Number: 9912000143

Purchase Order #: N/A

Date Received: 12/09/99

Contract Number: N/A

Client Sample ID:	GP-8 (0-4)	GP-5 (0-4)
ESC Sample ID:	81818	81819
Location:	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil
Date Sampled:	12/08/99	12/08/99

** TEST **

Total Solids	86.2	%	12/14/99	10:30	JS	85.8	%	12/14/99	10:30	JS
Silver	< 0.57	mg/Kg	12/16/99	10:37	ML	< 0.53	mg/Kg	12/16/99	10:37	ML
Lead	212	mg/Kg	12/16/99	10:37	ML	20.6	mg/Kg	12/16/99	10:37	ML
Mercury	1.08	mg/Kg	12/18/99	14:20	JT	< 0.27	mg/Kg	12/18/99	14:20	JT
Barium	65.4	mg/Kg	12/16/99	10:37	ML	44.6	mg/Kg	12/16/99	10:37	ML
Cadmium	0.726	mg/Kg	12/16/99	10:37	ML	0.334	mg/Kg	12/16/99	10:37	ML
Chromium	11.1	mg/Kg	12/16/99	10:37	ML	11.8	mg/Kg	12/16/99	10:37	ML
Selenium	< 0.287	mg/Kg	12/16/99	10:37	ML	< 0.268	mg/Kg	12/16/99	10:37	ML
Total Petroleum Hydrocarbons	5	mg/Kg	12/19/99	14:00	JS	< 5.0	mg/Kg	12/19/99	14:00	JS
Barium - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Cadmium - SPLP	< 0.005	mg/L	12/16/99	10:23	LZS	< 0.005	mg/L	12/16/99	10:23	LZS
Chromium - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Lead - SPLP	0.02	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Silver - SPLP	< 0.01	mg/L	12/17/99	17:35	KFG	< 0.01	mg/L	12/17/99	17:35	KFG
Mercury - SPLP	< 0.001	mg/L	12/18/99	14:20	JT	< 0.001	mg/L	12/18/99	14:20	JT
Arsenic	4.57	mg/Kg	12/16/99	10:37	ML	2.38	mg/Kg	12/16/99	10:37	ML
Arsenic - SPLP	< 0.003	mg/L	12/16/99	10:23	LZS	< 0.003	mg/L	12/16/99	10:23	LZS
Selenium - SPLP	< 0.005	mg/L	12/17/99	17:35	KFG	< 0.005	mg/L	12/17/99	17:35	KFG

<- Below Practical Quantitation Limit
NA - Not Analyzed

Low MDLS- GA + SWPC criteria

Soils analyzed on dry weight basis.

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Lab Report Number: 9912000143
Purchase Order #: N/A
Date Received: 12/09/99
Contract Number: N/A

** TEST **

Client Sample ID:	GP-5 (8-10)					GP-9 (0-1)					
ESC Sample ID:	81820					81821					
Location:	Guil/Mad/Clint					Guil/Mad/Clint					
Matrix:	Soil					Soil					
Date Sampled:	12/08/99					12/08/99					
Total Solids	67.6	%	12/14/99	10:30	JS	86.3	%	12/14/99	10:30	JS	
Silver	N/A					< 0.55	mg/Kg	12/16/99	10:37	ML	
Lead	N/A					103	mg/Kg	12/16/99	10:37	ML	
Mercury	N/A					< 0.25	mg/Kg	12/18/99	14:20	JT	
Barium	N/A					54.0	mg/Kg	12/16/99	10:37	ML	
Cadmium	N/A					0.939	mg/Kg	12/16/99	10:37	ML	
Chromium	N/A					15.6	mg/Kg	12/16/99	10:37	ML	
Selenium	N/A					< 0.274	mg/Kg	12/16/99	10:37	ML	
Total Petroleum Hydrocarbons	N/A					12	mg/Kg	12/19/99	14:00	JS	
Barium - SPLP	N/A					< 0.01	mg/L	12/16/99	10:23	LZS	
Cadmium - SPLP	N/A					< 0.005	mg/L	12/16/99	10:23	LZS	
Chromium - SPLP	N/A					< 0.01	mg/L	12/16/99	10:23	LZS	
Lead - SPLP	N/A					0.02	mg/L	12/16/99	10:23	LZS	
Silver - SPLP	N/A					< 0.01	mg/L	12/20/99	11:53	LZS	
Mercury - SPLP	N/A					< 0.001	mg/L	12/18/99	14:20	JT	
Arsenic	N/A					6.09	mg/Kg	12/16/99	10:37	ML	
Arsenic - SPLP	N/A					< 0.003	mg/L	12/16/99	10:23	LZS	
Selenium - SPLP	N/A					< 0.005	mg/L	12/20/99	11:44	LZS	

<- Below Practical Quantitation Limit
NA - Not Analyzed

Low MDLS- GA + SWPC criteria

Soils analyzed on dry weight basis.

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Lab Report Number: 9912000143

Purchase Order #: N/A

Date Received: 12/09/99

Contract Number: N/A

Client Sample ID:	GP-10 (0-4)	GP-11 (0-1)
ESC Sample ID:	81822	81823
Location:	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil
Date Sampled:	12/08/99	12/08/99

** TEST **

Total Solids	94.6	%	12/14/99	10:30	JS	89.7	%	12/14/99	10:30	JS
Silver	< 0.50	mg/Kg	12/16/99	10:37	ML	< .550	mg/Kg	12/16/99	10:37	ML
Lead	15.1	mg/Kg	12/16/99	10:37	ML	62.1	mg/Kg	12/16/99	10:37	ML
Mercury	< 0.22	mg/Kg	12/18/99	14:20	JT	< 0.23	mg/Kg	12/18/99	14:20	JT
Barium	23.0	mg/Kg	12/16/99	10:37	ML	58.0	mg/Kg	12/16/99	10:37	ML
Cadmium	< 0.250	mg/Kg	12/16/99	10:37	ML	0.810	mg/Kg	12/16/99	10:37	ML
Chromium	5.4	mg/Kg	12/16/99	10:37	ML	7.0	mg/Kg	12/16/99	10:37	ML
Selenium	< 0.250	mg/Kg	12/16/99	10:37	ML	< .273	mg/Kg	12/16/99	10:37	ML
Total Petroleum Hydrocarbons	< 5.0	mg/Kg	12/19/99	14:00	JS	39	mg/Kg	12/19/99	14:00	JS
Barium - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Cadmium - SPLP	< 0.005	mg/L	12/16/99	10:23	LZS	< 0.005	mg/L	12/16/99	10:23	LZS
Chromium - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Lead - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	0.01	mg/L	12/16/99	10:23	LZS
Silver - SPLP	< 0.01	mg/L	12/20/99	11:53	LZS	< 0.01	mg/L	12/20/99	11:53	LZS
Mercury - SPLP	< 0.001	mg/L	12/18/99	14:20	JT	< 0.001	mg/L	12/18/99	14:20	JT
Arsenic	0.855	mg/Kg	12/16/99	10:37	ML	2.99	mg/Kg	12/16/99	10:37	ML
Arsenic - SPLP	< 0.003	mg/L	12/16/99	10:23	LZS	< 0.003	mg/L	12/16/99	10:23	LZS
Selenium - SPLP	< 0.005	mg/L	12/20/99	11:44	LZS	< 0.005	mg/L	12/20/99	11:44	LZS

< - Below Practical Quantitation Limit
NA - Not Analyzed

Soils analyzed on dry weight basis.

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Lab Report Number: 9912000143
Purchase Order #: N/A
Date Received: 12/09/99
Contract Number: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

** TEST **

Client Sample ID:	GP-12 (0-4)					SS-3 (0.0-0.5)				
ESC Sample ID:	81824					81825				
Location:	Guil/Mad/Clint					Guil/Mad/Clint				
Matrix:	Soil					Soil				
Date Sampled:	12/08/99					12/08/99				
Total Solids	91.2	%	12/14/99	10:30	JS	91.9	%	12/14/99	10:30	JS
Silver	< 0.52	mg/Kg	12/16/99	10:37	ML	< 0.50	mg/Kg	12/16/99	10:37	ML
Lead	26.4	mg/Kg	12/16/99	10:37	ML	25.8	mg/Kg	12/16/99	10:37	ML
Mercury	< 0.24	mg/Kg	12/18/99	14:20	JT	< 0.19	mg/Kg	12/18/99	14:20	JT
Barium	27.4	mg/Kg	12/16/99	10:37	ML	25.7	mg/Kg	12/16/99	10:37	ML
Cadmium	< .260	mg/Kg	12/16/99	10:37	ML	< 0.251	mg/Kg	12/16/99	10:37	ML
Chromium	7.7	mg/Kg	12/16/99	10:37	ML	4.5	mg/Kg	12/16/99	10:37	ML
Selenium	< .260	mg/Kg	12/16/99	10:37	ML	< 0.251	mg/Kg	12/16/99	10:37	ML
Total Petroleum Hydrocarbons	5	mg/Kg	12/19/99	14:00	JS	< 5.0	mg/Kg	12/19/99	14:00	JS
Barium - SPLP	0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Cadmium - SPLP	< 0.005	mg/L	12/16/99	10:23	LZS	< 0.005	mg/L	12/16/99	10:23	LZS
Chromium - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Lead - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Silver - SPLP	< 0.01	mg/L	12/20/99	11:53	LZS	< 0.01	mg/L	12/20/99	11:53	LZS
Mercury - SPLP	< 0.001	mg/L	12/18/99	14:20	JT	< 0.001	mg/L	12/18/99	14:20	JT
Arsenic	1.42	mg/Kg	12/16/99	10:37	ML	1.29	mg/Kg	12/16/99	10:37	ML
Arsenic - SPLP	< 0.003	mg/L	12/16/99	10:23	LZS	< 0.003	mg/L	12/16/99	10:23	LZS
Selenium - SPLP	< 0.005	mg/L	12/20/99	11:44	LZS	< 0.005	mg/L	12/20/99	11:44	LZS

<- Below Practical Quantitation Limit
NA - Not Analyzed

Soils analyzed on dry weight basis.

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**
Purchase Order #: **N/A**
Date Received: **12/09/99**
Contract Number: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Project Number: **99459**

Client Sample ID:	GP-8 (0-4)	GP-5 (0-4)	GP-5 (8-10)	GP-9 (0-1)
ESC Sample ID:	81818	81819	81820	81821
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	mg/Kg	N/A	N/A	mg/Kg
Date Analyzed :	12/16/99			12/16/99
Time Analyzed :	21:17			21:47
Analyst:	JVK			JVK

8082 PCBs

## Dilution Factor ##	1.0	N/A	N/A	1.0
Aroclor-1016	< 0.10	N/A	N/A	< 0.10
Aroclor-1221	< 0.10	N/A	N/A	< 0.10
Aroclor-1232	< 0.10	N/A	N/A	< 0.10
Aroclor-1242	< 0.10	N/A	N/A	< 0.10
Aroclor-1248	< 0.10	N/A	N/A	< 0.10
Aroclor-1254	< 0.10	N/A	N/A	< 0.10
Aroclor-1260	< 0.10	N/A	N/A	< 0.10
** TCMX **	77%			84%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**
Purchase Order #: **N/A**
Date Received: **12/09/99**
Contract Number: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Project Number: **99459**

Client Sample ID:	GP-10 (0-4)	GP-11 (0-1)	GP-12 (0-4)	SS-3 (0.0-0.5)
ESC Sample ID:	81822	81823	81824	81825
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	N/A	N/A	mg/Kg	mg/Kg
Date Analyzed :			12/16/99	12/16/99
Time Analyzed :			22:18	22:48
Analyst:			JVK	JVK

8082 PCBs

## Dilution Factor ##	N/A	N/A	1.0	1.0
Aroclor-1016	N/A	N/A	< 0.10	< 0.10
Aroclor-1221	N/A	N/A	< 0.10	< 0.10
Aroclor-1232	N/A	N/A	< 0.10	< 0.10
Aroclor-1242	N/A	N/A	< 0.10	< 0.10
Aroclor-1248	N/A	N/A	< 0.10	< 0.10
Aroclor-1254	N/A	N/A	< 0.10	< 0.10
Aroclor-1260	N/A	N/A	< 0.10	< 0.10
** TCMX **			84%	91%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

CT Certification No. PH-0476, MA Certification No. M-CT013, NH Certification No. 222498/9, RI License No. 195, EPA Number CT013

ENVIRONMENTAL SCIENCE CORPORATION

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Client: Atlantic Environmental
Mr. Lynn Willey

Lab Report Number: 9912000143
Purchase Order #: N/A
Date Received: 12/09/99
Contract Number: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Client Sample ID:	GP-8 (0-4)	GP-5 (0-4)	GP-5 (8-10)	GP-9 (0-1)
ESC Sample ID:	81818	81819	81820	81821
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	mg/Kg	N/A	N/A	mg/Kg
Date Analyzed :	12/20/99			12/20/99
Time Analyzed :	22:44			23:16
Analyst:	JVK			JVK

8151A Chlorinated Herbicides

## Dilution Factor ##	1.0	N/A	N/A	1.0
2,4-D	< 0.010	N/A	N/A	< 0.010
2,4-DB	< 0.010	N/A	N/A	< 0.010
2,4,5-T	< 0.010	N/A	N/A	< 0.010
2,4,5-TP (Silvex)	< 0.010	N/A	N/A	< 0.010
Dalapon	< 0.010	N/A	N/A	< 0.010
Dicamba	< 0.010	N/A	N/A	< 0.010
Dichloroprop	< 0.010	N/A	N/A	< 0.010
Dinoseb	< 0.010	N/A	N/A	< 0.010
MCPA	< 1.0	N/A	N/A	< 1.0
MCPP	< 1.0	N/A	N/A	< 1.0
** DCAA **	34%			56%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**
Purchase Order #: **N/A**
Date Received: **12/09/99**
Contract Number: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Project Number: **99459**

Client Sample ID:	GP-10 (0-4)	GP-11 (0-1)	GP-12 (0-4)	SS-3 (0.0-0.5)
ESC Sample ID:	81822	81823	81824	81825
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	N/A	N/A	mg/Kg	mg/Kg
Date Analyzed :			12/20/99	12/21/99
Time Analyzed :			23:47	01:20
Analyst:			JVK	JVK

8151A Chlorinated Herbicides

## Dilution Factor ##	N/A	N/A	1.0	1.0
2,4-D	N/A	N/A	< 0.010	< 0.010
2,4-DB	N/A	N/A	< 0.010	< 0.010
2,4,5-T	N/A	N/A	< 0.010	< 0.010
2,4,5-TP (Silvex)	N/A	N/A	< 0.010	< 0.010
Dalapon	N/A	N/A	< 0.010	< 0.010
Dicamba	N/A	N/A	< 0.010	< 0.010
Dichloroprop	N/A	N/A	< 0.010	< 0.010
Dinoseb	N/A	N/A	< 0.010	< 0.010
MCPA	N/A	N/A	< 1.0	< 1.0
MCPP	N/A	N/A	< 1.0	< 1.0
** DCAA **			64%	44%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

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Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**
Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**
Date Received: **12/09/99**

Project Number: **99459**
Contract Number: **N/A**

Client Sample ID:	GP-8 (0-4)	GP-5 (0-4)	GP-5 (8-10)	GP-9 (0-1)
ESC Sample ID:	81818	81819	81820	81821
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	mg/Kg	N/A	N/A	mg/Kg
Date Analyzed :	12/20/99			12/20/99
Time Analyzed :	19:48			20:17
Analyst:	JVK			JVK

8081A Pesticides

## Dilution Factor ##	1.0	N/A	N/A	1.0
Aldrin	< 0.010	N/A	N/A	< 0.010
a-BHC	< 0.010	N/A	N/A	< 0.010
b-BHC	< 0.010	N/A	N/A	< 0.010
d-BHC	< 0.010	N/A	N/A	< 0.010
Lindane	< 0.010	N/A	N/A	< 0.010
Chlordane	< 0.010	N/A	N/A	< 0.010
4,4'-DDD	< 0.010	N/A	N/A	< 0.010
4,4'-DDE	< 0.010	N/A	N/A	< 0.010
4,4'-DDT	< 0.010	N/A	N/A	< 0.010
Dieldrin	< 0.010	N/A	N/A	< 0.010
Endosulfan I	< 0.010	N/A	N/A	< 0.010
Endosulfan II	< 0.010	N/A	N/A	< 0.010
Endosulfan sulfate	< 0.010	N/A	N/A	< 0.010
Endrin	< 0.010	N/A	N/A	< 0.010
Endrin aldehyde	< 0.010	N/A	N/A	< 0.010
Heptachlor	< 0.010	N/A	N/A	< 0.010
Heptachlor epoxide	< 0.010	N/A	N/A	< 0.010
Methoxychlor	< 0.010	N/A	N/A	< 0.010
Toxaphene	< 0.010	N/A	N/A	< 0.010
** TCMX **	80%			96%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

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FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-10 (0-4)	GP-11 (0-1)	GP-12 (0-4)	SS-3 (0.0-0.5)
ESC Sample ID:	81822	81823	81824	81825
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	N/A	N/A	mg/Kg	mg/Kg
Date Analyzed :			12/20/99	12/20/99
Time Analyzed :			20:47	21:16
Analyst:			JVK	JVK

8081A Pesticides

## Dilution Factor ##	N/A	N/A	1.0	1.0
Aldrin	N/A	N/A	< 0.010	< 0.010
a-BHC	N/A	N/A	< 0.010	< 0.010
b-BHC	N/A	N/A	< 0.010	< 0.010
d-BHC	N/A	N/A	< 0.010	< 0.010
Lindane	N/A	N/A	< 0.010	< 0.010
Chlordane	N/A	N/A	< 0.010	< 0.010
4,4'-DDD	N/A	N/A	< 0.010	< 0.010
4,4'-DDE	N/A	N/A	< 0.010	< 0.010
4,4'-DDT	N/A	N/A	< 0.010	< 0.010
Dieldrin	N/A	N/A	< 0.010	< 0.010
Endosulfan I	N/A	N/A	< 0.010	< 0.010
Endosulfan II	N/A	N/A	< 0.010	< 0.010
Endosulfan sulfate	N/A	N/A	< 0.010	< 0.010
Endrin	N/A	N/A	< 0.010	< 0.010
Endrin aldehyde	N/A	N/A	< 0.010	< 0.010
Heptachlor	N/A	N/A	< 0.010	< 0.010
Heptachlor epoxide	N/A	N/A	< 0.010	< 0.010
Methoxychlor	N/A	N/A	< 0.010	< 0.010
Toxaphene	N/A	N/A	< 0.010	< 0.010
** TCMX **			86%	100%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

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Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-8 (0-4)	GP-5 (0-4)	GP-5 (8-10)	GP-9 (0-1)
ESC Sample ID:	81818	81819	81820	81821
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	N/A	µg/Kg	µg/Kg
Date Analyzed :	12/20/99		12/20/99	12/20/99
Time Analyzed :	15:27		16:26	17:25
Analyst:	AP		AP	AP

8021B Aromatic and Halogenated Volatiles

## Dilution Factor ##	1		1	1
Benzene	< 1.0	N/A	< 1.0	< 1.0
Bromobenzene	< 1.0	N/A	< 1.0	< 1.0
Bromochloromethane	< 1.0	N/A	< 1.0	< 1.0
Bromodichloromethane	< 1.0	N/A	< 1.0	< 1.0
Bromoform	< 1.0	N/A	< 1.0	< 1.0
Bromomethane	< 1.0	N/A	< 1.0	< 1.0
n-Butylbenzene	< 1.0	N/A	< 1.0	< 1.0
sec-Butylbenzene	< 1.0	N/A	< 1.0	< 1.0
tert-Butylbenzene	< 1.0	N/A	< 1.0	< 1.0
Carbon tetrachloride	< 1.0	N/A	< 1.0	< 1.0
Chlorobenzene	< 1.0	N/A	< 1.0	< 1.0
Chloroethane	< 1.0	N/A	< 1.0	< 1.0
Chloroform	< 1.0	N/A	< 1.0	< 1.0
Chloromethane	< 1.0	N/A	< 1.0	< 1.0
2-Chlorotoluene	< 1.0	N/A	< 1.0	< 1.0
4-Chlorotoluene	< 1.0	N/A	< 1.0	< 1.0
2-Chloroethyl vinyl ether	< 5.0	N/A	< 5.0	< 5.0
Dibromochloromethane	< 1.0	N/A	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0	N/A	< 1.0	< 1.0
1,2-Dibromoethane (EDB)	< 1.0	N/A	< 1.0	< 1.0
Dibromomethane	< 1.0	N/A	< 1.0	< 1.0
1,2-Dichlorobenzene	< 1.0	N/A	< 1.0	< 1.0
1,3-Dichlorobenzene	< 1.0	N/A	< 1.0	< 1.0
1,4-Dichlorobenzene	< 1.0	N/A	< 1.0	< 1.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

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Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-8 (0-4)	GP-5 (0-4)	GP-5 (8-10)	GP-9 (0-1)
ESC Sample ID:	81818	81819	81820	81821
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	N/A	µg/Kg	µg/Kg
Date Analyzed :	12/20/99		12/20/99	12/20/99
Time Analyzed :	15:27		16:26	17:25
Analyst:	AP		AP	AP

8021B Aromatic and Halogenated Volatiles

Dichlorodifluoromethane	14	N/A	3.6	16
1,1-Dichloroethane	< 1.0	N/A	< 1.0	< 1.0
1,2-Dichloroethane	< 1.0	N/A	< 1.0	< 1.0
1,1-Dichloroethene	< 1.0	N/A	< 1.0	< 1.0
cis-1,2-Dichloroethene	< 1.0	N/A	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	N/A	< 1.0	< 1.0
1,2-Dichloropropane	< 1.0	N/A	< 1.0	< 1.0
1,3-Dichloropropane	< 1.0	N/A	< 1.0	< 1.0
2,2-Dichloropropane	< 1.0	N/A	< 1.0	< 1.0
1,1-Dichloropropene	< 1.0	N/A	< 1.0	< 1.0
cis-1,3-Dichloropropene	< 1.0	N/A	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	N/A	< 1.0	< 1.0
Ethylbenzene	< 1.0	N/A	< 1.0	< 1.0
Hexachlorobutadiene	< 1.0	N/A	< 1.0	< 1.0
Isopropylbenzene	< 1.0	N/A	< 1.0	< 1.0
4-Isopropyltoluene	< 1.0	N/A	< 1.0	< 1.0
Methylene chloride	45	N/A	4.9	21
Naphthalene	< 1.0	N/A	< 1.0	< 1.0
n-Propylbenzene	< 1.0	N/A	< 1.0	< 1.0
Styrene	< 1.0	N/A	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0	N/A	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	N/A	< 1.0	< 1.0
Tetrachloroethene	< 1.0	N/A	< 1.0	< 1.0
Toluene	< 1.0	N/A	< 1.0	< 1.0
1,2,3-Trichlorobenzene	< 1.0	N/A	< 1.0	< 1.0
1,1,1-Trichloroethane	< 1.0	N/A	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	N/A	< 1.0	< 1.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

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Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-8 (0-4)	GP-5 (0-4)	GP-5 (8-10)	GP-9 (0-1)
ESC Sample ID:	81818	81819	81820	81821
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	N/A	µg/Kg	µg/Kg
Date Analyzed :	12/20/99		12/20/99	12/20/99
Time Analyzed :	15:27		16:26	17:25
Analyst:	AP		AP	AP

8021B Aromatic and Halogenated Volatiles

Trichloroethene	< 1.0	N/A	< 1.0	< 1.0
Trichlorofluoromethane	< 1.0	N/A	< 1.0	< 1.0
1,2,3-Trichloropropane	< 1.0	N/A	< 1.0	< 1.0
1,2,4-Trimethylbenzene	< 1.0	N/A	< 1.0	< 1.0
1,2,4-Trichlorobenzene	< 1.0	N/A	< 1.0	< 1.0
1,3,5-Trimethylbenzene	< 1.0	N/A	< 1.0	< 1.0
Vinyl chloride	< 1.0	N/A	< 1.0	< 1.0
o-Xylene	< 1.0	N/A	< 1.0	< 1.0
m&p-Xylene	< 1.0	N/A	< 1.0	< 1.0
Methyl tert-butyl ether	< 1.0	N/A	< 1.0	< 1.0
** 1,4-Dichlorobutane **	173%		113%	165%
** Trifluorotoluene **	101%		102%	99%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

CT Certification No. PH-0476, MA Certification No. M-CT013, NH Certification No. 222498/9, RI License No. 195, EPA Number CT013

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Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-10 (0-4)	GP-11 (0-1)	GP-12 (0-4)	SS-3 (0.0-0.5)
ESC Sample ID:	81822	81823	81824	81825
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Date Analyzed :	12/20/99	12/21/99	12/21/99	12/21/99
Time Analyzed :	18:24	15:40	16:39	12:44
Analyst:	AP	AP	AP	AP

8021B Aromatic and Halogenated Volatiles

## Dilution Factor ##	1	5	5	1
Benzene	< 1.0	< 5.0	< 5.0	< 1.0
Bromobenzene	< 1.0	< 5.0	< 5.0	< 1.0
Bromochloromethane	< 1.0	< 5.0	< 5.0	< 1.0
Bromodichloromethane	< 1.0	< 5.0	< 5.0	< 1.0
Bromoform	< 1.0	< 5.0	< 5.0	< 1.0
Bromomethane	< 1.0	< 5.0	< 5.0	< 1.0
n-Butylbenzene	< 1.0	< 5.0	< 5.0	< 1.0
sec-Butylbenzene	< 1.0	< 5.0	< 5.0	< 1.0
tert-Butylbenzene	< 1.0	< 5.0	< 5.0	< 1.0
Carbon tetrachloride	< 1.0	< 5.0	< 5.0	< 1.0
Chlorobenzene	< 1.0	< 5.0	< 5.0	< 1.0
Chloroethane	< 1.0	< 5.0	< 5.0	< 1.0
Chloroform	< 1.0	< 5.0	< 5.0	< 1.0
Chloromethane	< 1.0	< 5.0	< 5.0	< 1.0
2-Chlorotoluene	< 1.0	< 5.0	< 5.0	< 1.0
4-Chlorotoluene	< 1.0	< 5.0	< 5.0	< 1.0
2-Chloroethyl vinyl ether	< 5.0	< 25	< 25	< 5.0
Dibromochloromethane	< 1.0	< 5.0	< 5.0	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0	< 5.0	< 5.0	< 1.0
1,2-Dibromoethane (EDB)	< 1.0	< 5.0	< 5.0	< 1.0
Dibromomethane	< 1.0	< 5.0	< 5.0	< 1.0
1,2-Dichlorobenzene	< 1.0	< 5.0	< 5.0	< 1.0
1,3-Dichlorobenzene	< 1.0	< 5.0	< 5.0	< 1.0
1,4-Dichlorobenzene	< 1.0	< 5.0	< 5.0	< 1.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

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FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-10 (0-4)	GP-11 (0-1)	GP-12 (0-4)	SS-3 (0.0-0.5)
ESC Sample ID:	81822	81823	81824	81825
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Date Analyzed :	12/20/99	12/21/99	12/21/99	12/21/99
Time Analyzed :	18:24	15:40	16:39	12:44
Analyst:	AP	AP	AP	AP

8021B Aromatic and Halogenated Volatiles

Dichlorodifluoromethane	4.5	24	72	7.8
1,1-Dichloroethane	< 1.0	< 5.0	< 5.0	< 1.0
1,2-Dichloroethane	< 1.0	< 5.0	< 5.0	< 1.0
1,1-Dichloroethene	< 1.0	< 5.0	< 5.0	< 1.0
cis-1,2-Dichloroethene	< 1.0	< 5.0	< 5.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 5.0	< 5.0	< 1.0
1,2-Dichloropropane	< 1.0	< 5.0	< 5.0	< 1.0
1,3-Dichloropropane	< 1.0	< 5.0	< 5.0	< 1.0
2,2-Dichloropropane	< 1.0	< 5.0	< 5.0	< 1.0
1,1-Dichloropropene	< 1.0	< 5.0	< 5.0	< 1.0
cis-1,3-Dichloropropene	< 1.0	< 5.0	< 5.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 5.0	< 5.0	< 1.0
Ethylbenzene	< 1.0	< 5.0	< 5.0	< 1.0
Hexachlorobutadiene	< 1.0	< 5.0	< 5.0	< 1.0
Isopropylbenzene	< 1.0	< 5.0	< 5.0	< 1.0
4-Isopropyltoluene	< 1.0	< 5.0	< 5.0	< 1.0
Methylene chloride	8.4	24	30	16
Naphthalene	< 1.0	< 5.0	< 5.0	< 1.0
n-Propylbenzene	< 1.0	< 5.0	< 5.0	< 1.0
Styrene	< 1.0	< 5.0	< 5.0	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0	< 5.0	< 5.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 5.0	< 5.0	< 1.0
Tetrachloroethene	1.2	< 5.0	< 5.0	< 1.0
Toluene	< 1.0	< 5.0	< 5.0	< 1.0
1,2,3-Trichlorobenzene	< 1.0	< 5.0	< 5.0	< 1.0
1,1,1-Trichloroethane	< 1.0	< 5.0	< 5.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 5.0	< 5.0	< 1.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-10 (0-4)	GP-11 (0-1)	GP-12 (0-4)	SS-3 (0.0-0.5)
ESC Sample ID:	81822	81823	81824	81825
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Date Analyzed :	12/20/99	12/21/99	12/21/99	12/21/99
Time Analyzed :	18:24	15:40	16:39	12:44
Analyst:	AP	AP	AP	AP
8021B Aromatic and Halogenated Volatiles				
Trichloroethene	< 1.0	< 5.0	< 5.0	< 1.0
Trichlorofluoromethane	< 1.0	< 5.0	< 5.0	< 1.0
1,2,3-Trichloropropane	< 1.0	< 5.0	< 5.0	< 1.0
1,2,4-Trimethylbenzene	< 1.0	< 5.0	< 5.0	< 1.0
1,2,4-Trichlorobenzene	< 1.0	< 5.0	< 5.0	< 1.0
1,3,5-Trimethylbenzene	< 1.0	< 5.0	< 5.0	< 1.0
Vinyl chloride	< 1.0	< 5.0	< 5.0	< 1.0
o-Xylene	< 1.0	< 5.0	< 5.0	< 1.0
m&p-Xylene	< 1.0	< 5.0	< 5.0	< 1.0
Methyl tert-butyl ether	< 1.0	< 5.0	< 5.0	< 1.0
** 1,4-Dichlorobutane **	135%	140%	129%	138%
** Trifluorotoluene **	99%	96%	98%	104%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

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Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-8 (0-4)	GP-5 (0-4)	GP-5 (8-10)	GP-9 (0-1)
ESC Sample ID:	81818	81819	81820	81821
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	N/A	µg/Kg
Date Analyzed :	12/17/99	12/17/99		12/20/99
Time Analyzed :	16:05	17:56		12:10
Analyst:	MAA	MAA		MAA

8270C Semivolatile Organics - TCL

## Dilution Factor ##	1.0	1.0	N/A	10
Acenaphthene	< 170	< 170	N/A	< 1700
Acenaphthylene	200	< 170	N/A	< 1700
Anthracene	< 170	< 170	N/A	< 1700
Benzo(a)anthracene	400	< 170	N/A	2000
Benzo(b)fluoranthene	580	< 170	N/A	2500
Benzo(k)fluoranthene	640	< 170	N/A	2900
Benzo(g,h,i)perylene	< 330	< 330	N/A	< 3300
Benzo(a)pyrene	< 170	< 170	N/A	< 1700
Bis(2-chloroethoxy)methane	< 170	< 170	N/A	< 1700
Bis(2-chloroethyl)ether	< 170	< 170	N/A	< 1700
2,2'-oxybis(1-Chloropropane)	< 500	< 500	N/A	< 5000
Bis(2-ethylhexyl)phthalate	< 170	< 170	N/A	< 1700
4-Bromophenyl phenyl ether	< 170	< 170	N/A	< 1700
Butyl benzyl phthalate	< 170	< 170	N/A	< 1700
Carbazole	< 170	< 170	N/A	< 1700
4-Chloroaniline	< 330	< 330	N/A	< 3300
2-Chloronaphthalene	< 170	< 170	N/A	< 1700
4-Chloro-3-methylphenol	< 330	< 330	N/A	< 3300
2-Chlorophenol	< 330	< 330	N/A	< 3300
4-Chlorophenyl phenyl ether	< 170	< 170	N/A	< 1700
Chrysene	610	< 170	N/A	2500
Dibenz(a,h)anthracene	< 170	< 170	N/A	< 1700
Dibenzofuran	< 170	< 170	N/A	< 1700
Di-n-butyl phthalate	< 170	< 170	N/A	< 1700

< - Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**
Purchase Order #: **N/A**
Date Received: **12/09/99**
Contract Number: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Project Number: **99459**

Client Sample ID:	GP-8 (0-4)	GP-5 (0-4)	GP-5 (8-10)	GP-9 (0-1)
ESC Sample ID:	81818	81819	81820	81821
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	N/A	µg/Kg
Date Analyzed :	12/17/99	12/17/99		12/20/99
Time Analyzed :	16:05	17:56		12:10
Analyst:	MAA	MAA		MAA

8270C Semivolatile Organics - TCL

1,3-Dichlorobenzene	< 170	< 170	N/A	< 1700
1,4-Dichlorobenzene	< 170	< 170	N/A	< 1700
1,2-Dichlorobenzene	< 170	< 170	N/A	< 1700
3,3'-Dichlorobenzidine	< 330	< 330	N/A	< 3300
2,4-Dichlorophenol	< 330	< 330	N/A	< 3300
Diethyl phthalate	< 170	< 170	N/A	< 1700
2,4-Dimethylphenol	< 330	< 330	N/A	< 3300
Dimethyl phthalate	< 170	< 170	N/A	< 1700
4,6-Dinitro-2-methylphenol	< 330	< 330	N/A	< 3300
2,4-Dinitrophenol	< 330	< 330	N/A	< 3300
2,4-Dinitrotoluene	< 170	< 170	N/A	< 1700
2,6-Dinitrotoluene	< 170	< 170	N/A	< 1700
Di-n-octyl phthalate	< 330	< 330	N/A	< 3300
Fluoranthene	890	180	N/A	3900
Fluorene	< 170	< 170	N/A	< 1700
Hexachlorobenzene	< 170	< 170	N/A	< 1700
Hexachlorobutadiene	< 170	< 170	N/A	< 1700
Hexachlorocyclopentadiene	< 170	< 170	N/A	< 1700
Hexachloroethane	< 170	< 170	N/A	< 1700
Indeno(1,2,3-cd)pyrene	260	< 170	N/A	< 1700
Isophorone	< 170	< 170	N/A	< 1700
2-Methylnaphthalene	< 170	< 170	N/A	< 1700
2-Methylphenol (o-cresol)	< 330	< 330	N/A	< 3300
4-Methylphenol (p-cresol)	< 330	< 330	N/A	< 3300
Naphthalene	< 170	< 170	N/A	< 1700
2-Nitroaniline	< 170	< 170	N/A	< 1700
3-Nitroaniline	< 170	< 170	N/A	< 1700

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Project Name: **Guilford/Madison/Clinton RR Stations**

Project Number: **99459**

Lab Report Number: **9912000143**

Purchase Order #: **N/A**

Date Received: **12/09/99**

Contract Number: **N/A**

Client Sample ID:	GP-8 (0-4)	GP-5 (0-4)	GP-5 (8-10)	GP-9 (0-1)
ESC Sample ID:	81818	81819	81820	81821
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	N/A	µg/Kg
Date Analyzed :	12/17/99	12/17/99		12/20/99
Time Analyzed :	16:05	17:56		12:10
Analyst:	MAA	MAA		MAA

8270C Semivolatile Organics - TCL

4-Nitroaniline	< 330	< 330	N/A	< 3300
Nitrobenzene	< 170	< 170	N/A	< 1700
2-Nitrophenol	< 330	< 330	N/A	< 3300
4-Nitrophenol	< 330	< 330	N/A	< 3300
N-Nitrosodiphenylamine	< 170	< 170	N/A	< 1700
N-Nitrosodi-n-propylamine	< 170	< 170	N/A	< 1700
Pentachlorophenol	< 330	< 330	N/A	< 3300
Phenanthrene	310	< 170	N/A	< 1700
Phenol	< 330	< 330	N/A	< 3300
Pyrene	840	200	N/A	3800
1,2,4-Trichlorobenzene	< 170	< 170	N/A	< 1700
2,4,5-Trichlorophenol	< 330	< 330	N/A	< 3300
2,4,6-Trichlorophenol	< 330	< 330	N/A	< 3300
** 2-Fluorophenol **	41%	40%		0%D
** Phenol-d5 **	52%	48%		33%
** Nitrobenzene-d5 **	52%	49%		40%
** 2-Fluorobiphenyl **	57%	49%		66%
** 2,4,6-Tribromophenol **	74%	46%		42%
** Terphenyl-d14 **	86%	55%		67%
** 1,2-Dichlorobenzene-d4 **	44%	44%		53%
** 2-Chlorophenol-d4 **	44%	42%		47%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Lab Report Number: **9912000143**

Client: **Atlantic Environmental**
Mr. Lynn Willey

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-10 (0-4)	GP-11 (0-1)	GP-12 (0-4)	SS-3 (0.0-0.5)
ESC Sample ID:	81822	81823	81824	81825
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Date Analyzed :	12/17/99	12/20/99	02/17/99	12/17/99
Time Analyzed :	19:22	12:55	20:10	17:56
Analyst:	MAA	MAA	MAA	MAA

8270C Semivolatile Organics - TCL

## Dilution Factor ##	1.0	10	1.0	1.0
Acenaphthene	< 170	< 1700	< 170	< 170
Acenaphthylene	< 170	< 1700	< 170	< 170
Anthracene	< 170	< 1700	< 170	< 170
Benzo(a)anthracene	< 170	< 1700	< 170	< 170
Benzo(b)fluoranthene	< 170	< 1700	< 170	< 170
Benzo(k)fluoranthene	< 170	1800	< 170	< 170
Benzo(g,h,i)perylene	< 330	< 3300	< 330	< 330
Benzo(a)pyrene	< 170	< 1700	< 170	< 170
Bis(2-chloroethoxy)methane	< 170	< 1700	< 170	< 170
Bis(2-chloroethyl)ether	< 170	< 1700	< 170	< 170
2,2'-oxybis(1-Chloropropane)	< 500	< 5000	< 500	< 500
Bis(2-ethylhexyl)phthalate	< 170	< 1700	< 170	< 170
4-Bromophenyl phenyl ether	< 170	< 1700	< 170	< 170
Butyl benzyl phthalate	< 170	< 1700	< 170	< 170
Carbazole	< 170	< 1700	< 170	< 170
4-Chloroaniline	< 330	< 3300	< 330	< 330
2-Chloronaphthalene	< 170	< 1700	< 170	< 170
4-Chloro-3-methylphenol	< 330	< 3300	< 330	< 330
2-Chlorophenol	< 330	< 3300	< 330	< 330
4-Chlorophenyl phenyl ether	< 170	< 1700	< 170	< 170
Chrysene	< 170	< 1700	< 170	< 170
Dibenz(a,h)anthracene	< 170	< 1700	< 170	< 170
Dibenzofuran	< 170	< 1700	< 170	< 170
Di-n-butyl phthalate	< 170	< 1700	< 170	< 170

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000143**
Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**
Date Received: **12/09/99**

Project Number: **99459**
Contract Number: **N/A**

Client Sample ID:	GP-10 (0-4)	GP-11 (0-1)	GP-12 (0-4)	SS-3 (0.0-0.5)
ESC Sample ID:	81822	81823	81824	81825
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Date Analyzed :	12/17/99	12/20/99	02/17/99	12/17/99
Time Analyzed :	19:22	12:55	20:10	17:56
Analyst:	MAA	MAA	MAA	MAA

8270C Semivolatile Organics - TCL

1,3-Dichlorobenzene	< 170	< 1700	< 170	< 170
1,4-Dichlorobenzene	< 170	< 1700	< 170	< 170
1,2-Dichlorobenzene	< 170	< 1700	< 170	< 170
3,3'-Dichlorobenzidine	< 330	< 3300	< 330	< 330
2,4-Dichlorophenol	< 330	< 3300	< 330	< 330
Diethyl phthalate	< 170	< 1700	< 170	< 170
2,4-Dimethylphenol	< 330	< 3300	< 330	< 330
Dimethyl phthalate	< 170	< 1700	< 170	< 170
4,6-Dinitro-2-methylphenol	< 330	< 3300	< 330	< 330
2,4-Dinitrophenol	< 330	< 3300	< 330	< 330
2,4-Dinitrotoluene	< 170	< 1700	< 170	< 170
2,6-Dinitrotoluene	< 170	< 1700	< 170	< 170
Di-n-octyl phthalate	< 330	< 3300	< 330	< 330
Fluoranthene	< 170	2000	170	180
Fluorene	< 170	< 1700	< 170	< 170
Hexachlorobenzene	< 170	< 1700	< 170	< 170
Hexachlorobutadiene	< 170	< 1700	< 170	< 170
Hexachlorocyclopentadiene	< 170	< 1700	< 170	< 170
Hexachloroethane	< 170	< 1700	< 170	< 170
Indeno(1,2,3-cd)pyrene	< 170	< 1700	< 170	< 170
Isophorone	< 170	< 1700	< 170	< 170
2-Methylnaphthalene	< 170	< 1700	< 170	< 170
2-Methylphenol (o-cresol)	< 330	< 3300	< 330	< 330
4-Methylphenol (p-cresol)	< 330	< 3300	< 330	< 330
Naphthalene	< 170	< 1700	< 170	< 170
2-Nitroaniline	< 170	< 1700	< 170	< 170
3-Nitroaniline	< 170	< 1700	< 170	< 170

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Lab Report Number: 9912000143
Purchase Order #: N/A
Date Received: 12/09/99
Contract Number: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Client Sample ID:	GP-10 (0-4)	GP-11 (0-1)	GP-12 (0-4)	SS-3 (0.0-0.5)
ESC Sample ID:	81822	81823	81824	81825
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Date Analyzed :	12/17/99	12/20/99	02/17/99	12/17/99
Time Analyzed :	19:22	12:55	20:10	17:56
Analyst:	MAA	MAA	MAA	MAA

8270C Semivolatile Organics - TCL

4-Nitroaniline	< 330	< 3300	< 330	< 330
Nitrobenzene	< 170	< 1700	< 170	< 170
2-Nitrophenol	< 330	< 3300	< 330	< 330
4-Nitrophenol	< 330	< 3300	< 330	< 330
N-Nitrosodiphenylamine	< 170	< 1700	< 170	< 170
N-Nitrosodi-n-propylamine	< 170	< 1700	< 170	< 170
Pentachlorophenol	< 330	< 3300	< 330	< 330
Phenanthrene	< 170	< 1700	< 170	< 170
Phenol	< 330	< 3300	< 330	< 330
Pyrene	< 170	1700	170	200
1,2,4-Trichlorobenzene	< 170	< 1700	< 170	< 170
2,4,5-Trichlorophenol	< 330	< 3300	< 330	< 330
2,4,6-Trichlorophenol	< 330	< 3300	< 330	< 330
** 2-Fluorophenol **	33%	13%D	30%	40%
** Phenol-d5 **	43%	24%	38%	48%
** Nitrobenzene-d5 **	41%	34%	39%	49%
** 2-Fluorobiphenyl **	46%	57%	44%	49%
** 2,4,6-Tribromophenol **	69%	38%	58%	46%
** Terphenyl-d14 **	89%	59%	74%	55%
** 1,2-Dichlorobenzene-d4 **	36%	45%	36%	44%
** 2-Chlorophenol-d4 **	36%	39%	34%	42%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION
502 INDUSTRIAL PARK ROAD
MIDDLETOWN, CT 06457
PHONE: (860) 632-0600
FAX #: (860) 632-7743

CHAIN OF CUSTODY

Analytical Laboratory Service

(Please Print) pg ____ of ____

PROJECT INFORMATION

PROJECT NAME/NUMBER: 99459 Guilford/Madison/Clinton RR Stations
PROJECT LOCATION: 99459 Guilford/Madison/Clinton RR Station
PROJECT MANAGER: Jay Curran
SAMPLER(S): Lynn Colley
LAB QUOTE #:
PO#:

CLIENT INFORMATION

SEND REPORTS TO: Lynn Colley
COMPANY: GET Consultants/Atlantic Environ
ADDRESS: 186 Norwich Ave Colchester, CT 06415
PHONE: 860-537-0751
FAX: 860-537-6347

DO YOU AUTHORIZE SAMPLES TO BE RETURNED TO YOUR FIRM? ☐ YES ☑ NO

TURNAROUND (TAT)
☑ Standard 10 business days
☐ Other (specify):
Note: Less than 10 days must be pre-approved

FINAL REPORT:
☑ Mail ☑ Fax
☐ E-mail
Diskette ☐ DBF ☐ XLS

ANALYSIS REQUIRED
IF SPECIAL OR NON-ROUTINE DETECTION LIMITS ARE REQUIRED PLEASE CALL THE LAB

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE TYPE	# OF CONTAINERS	VOC EPA METHOD 8021B	SVOC EPA METHOD 8270	TPH EPA METHOD 418.1	RCRA 8 METALS 6010	RCRA 8 METALS 7470 EPA METHOD	EPA Method 1312	PCB/Pesticides EPA METHOD 8080	Herbicides EPA METHOD 8150				✓ IF FIELD FILTERED	CONDITION UPON RECEIPT
1. GP-8 (0-4)	12/8/99	930	Soil	3	✓	✓	✓	✓	✓	✓	✓						
2. GP-5 (0-4)	12/8/99	830	Soil	2		✓	✓	✓	✓								
3. GP-5 (8-10)	12/8/99	850	Soil	1	✓												
4. GP-9 (0-1)	12/8/99	1420	Soil	3	✓	✓	✓	✓	✓	✓	✓						
5. GP-10 (0-4)	12/8/99	1340	Soil	3	✓	✓	✓	✓	✓								
6. GP-11 (0-1)	12/8/99	1405	Soil	3	✓	✓	✓	✓	✓								
7. GP-12 (0-4)	12/8/99	1330	Soil	3	✓	✓	✓	✓	✓	✓	✓						
8. SS-3 (0.0-0.5)	12/8/99	1445	Soil	3	✓	✓	✓	✓	✓	✓	✓						
9.																	
10.																	
					Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	

HAVE HOLDING TIMES BEEN MET- YES(Y) OR NO(N)

SAMPLE PRESERVED WITH:

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
[signature]	12/10/1550	[signature]	12/9/99 1150
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME

REMARKS/NOTES:
Standard Turnaround Time
Low MDLs (GA + SWRC criteria)
Call if any questions Thanks [signature]

NET TERMS: 30 Days: Costs of collection, including attorney's fees, will be added to accounts referred for collection.

The customer agrees that submission of a sample for testing to ESC shall be deemed to be consent to the terms and conditions of this agreement as shown on reverse.

CUSTOMER SIGNATURE - REQUIRED
X [signature]

DATE 12/9/99 1150

#011 (9/99)

99-12-142

ENVIRONMENTAL SCIENCE CORP.
WET CHEMISTRY
***** QC SUMMARY *****

CLIENT: **GEI/ATLANTIC DIV.** **DATE:** **12/19/99**
LOG #: **9912000143** **MATRIX:** **Aqueous**

Dates Analyzed: 12/19/99

ANALYSIS DESCRIPTION	TRUE VALUE	95% CI	RESULT	
Total Petroleum Hydrocarbon	200	NA	191	mg/kg

ENVIRONMENTAL SCIENCE CORP.
WET CHEMISTRY
***** METHOD BLANK SUMMARY *****

CLIENT: **GEI/ATLANTIC DIV.**
LOG #: **9912000143**

DATE: **12/19/99**
MATRIX: **Aqueous**

Dates Analyzed: 12/19/99

ANALYSIS DESCRIPTION	RESULT	
Total Petroleum Hydrocarbon	<5.0	mg/kg

ENVIRONMENTAL SCINECE CORP.
WET CHEMISTRY
***** DUPLICATES *****

CLIENT GEI/ATLANTIC DIV. **DATE: 12/19/99**
LOG #: 9912000143 **MATRIX: Aqueous**

Dates Analyzed: 12/19/99

ANALYSIS DESCRIPTION	SAMPLE RESULT		DUPLICATE AMOUNT	RELATIVE % DEVIATION
Total Petroleum Hydrocarbon	NA	mg/kg	NA	N/C

ENVIRONMENTAL SCIENCE CORP.
WET CHEMISTRY
*** MATRIX SPIKE - DUPLICATE RECOVERY ***

CLIENT: GEI/ATLANTIC DIV. **DATE:** 12/19/99

LOG #: 9912000143 **MATRIX:** Aqueous

Dates Analyzed: 12/19/99

ANALYSIS DESCRIPTION	Units	RESULT SPIKE 1	RESULT SPIKE 2	SAMPLE RESULT	SPIKE ADDED	%R SPIKE 1	%R SPIKE 2
Total Petroleum Hydrocarbon	mg/kg	224	231		221	101.0%	105.0%

ATLANTIC ENV.
9912000143

QC SUMMARY
Matrix: Soil / Solid

Compound	Units	True Value	Range	Result	Date Run
Mercury	mg/Kg	3.13	1.83 - 4.44	2.80	12/18/99

ATLANTIC ENV.
9912000143

METHOD BLANK
Matrix: Aqueous

Compound	Units		Result soil	Date Run
Mercury	mg/L	<	0.001	12/18/99

ATLANTIC ENV.
9912000143

DUPLICATES
Matrix: Soil

Compound	Units		Sample		Duplicate	RPD	Date Run
Mercury	mg/Kg	<	0.23	<	0.23	N/C	12/18/99

ATLANTIC ENV.
9912000143

MATRIX SPIKE RECOVERY
Matrix: Soil/Solid

Compound	Units	Spike Result		Sample Result	Spike Added	Percent Recovery	Date Run
Mercury	mg/Kg	2.12	<	1.0	2.27	93.4	12/18/99

ATLANTIC ENV.
9912000143

MATRIX SPIKE DUPLICATE RECOVERY
Matrix: Soil/Solid

Compound	Units	Spike Result		Sample Result	Spike Added	Percent Recovery	Date Run
Mercury	mg/Kg	2.11	<	1.0	2.19	96.3	12/18/99

ATLANTIC ENV.
9912000143

QC SUMMARY
Matrix: Soil / Solid

Compound	Units	True Value Lot # 243	Range	Result	Date Run
Arsenic	mg/Kg	53.2	38.3 - 68.2	50.5	12/17/99
Barium	mg/Kg	112	86.0 - 137	112	12/17/99
Cadmium	mg/Kg	151	116 - 185	141	12/17/99
Chromium	mg/Kg	99.4	76.6 - 122	87.9	12/17/99
Lead	mg/Kg	97.8	74.5 - 121	97.3	12/17/99
Selenium	mg/Kg	143	106 - 180	118	12/17/99
Silver	mg/Kg	107	80.0 - 135	104	12/17/99

ATLANTIC ENV.
9912000143

METHOD BLANK
Matrix: Aqueous

Compound	Units		Result	Date Run
Arsenic	mg/L	<	0.003	12/16/99
Barium	mg/L	<	0.01	12/16/99
Cadmium	mg/L	<	0.005	12/16/99
Chromium	mg/L	<	0.01	12/16/99
Lead	mg/L	<	0.01	12/16/99
Selenium	mg/L	<	0.005	12/16/99
Silver	mg/L	<	0.01	12/16/99

ATLANTIC ENV.
9912000143

DUPLICATES
Matrix: Soil

Compound	Units	Sample	Duplicate	RPD	Date Run
Arsenic	mg/Kg	57.5	40.6	34.5	12/16/99
Barium	mg/Kg	75.8	69.6	8.5	12/16/99
Cadmium	mg/Kg	0.797	0.861	7.7	12/16/99
Chromium	mg/Kg	17.3	17.6	1.7	12/16/99
Lead	mg/Kg	99.3	89.5	10.4	12/16/99
Selenium	mg/Kg	< 0.270	< 0.270	N/C	12/16/99
Silver	mg/Kg	< 0.54	< 0.54	N/C	12/16/99

ATLANTIC ENV.
9912000143

MATRIX SPIKE RECOVERY
Matrix: Soil/Solid

Compound	Units	Spike Result		Sample Result	Spike Added	Percent Recovery	Date Run
Arsenic	mg/Kg	79.4		57.5	55.3	39.6	12/16/99
Barium	mg/Kg	119		75.8	55.3	78.1	12/16/99
Cadmium	mg/Kg	46.6		0.797	55.3	82.8	12/16/99
Chromium	mg/Kg	64.5		17.3	55.3	85.4	12/16/99
Lead	mg/Kg	129		99.3	55.3	53.7	12/16/99
Selenium	mg/Kg	40.5	<	0.270	55.3	73.2	12/16/99
Silver	mg/Kg	47.6	<	0.54	55.3	86.1	12/16/99

ATLANTIC ENV.
9912000143

MATRIX SPIKE DUPLICATE RECOVERY
Matrix: Soil/Solid

Compound	Units	Spike Result		Sample Result	Spike Added	Percent Recovery	Date Run
Arsenic	mg/Kg	79.4		57.5	57.3	38.2	12/17/99
Barium	mg/Kg	119		75.8	57.3	75.4	12/17/99
Cadmium	mg/Kg	46.6		0.797	57.3	79.9	12/17/99
Chromium	mg/Kg	65.5		17.3	57.3	84.1	12/17/99
Lead	mg/Kg	129		99.3	57.3	51.8	12/17/99
Selenium	mg/Kg	40.5	<	0.270	57.3	70.7	12/17/99
Silver	mg/Kg	47.6	<	0.54	57.3	83.1	12/17/99

ATLANTIC ENV.
9912000143

QC SUMMARY
Matrix: Aqueous

Compound	Units	True Value	Range	Result	Date Run
Mercury	ug/L	5.00	4.50 - 5.50	5.19	12/18/99

ATLANTIC ENV.
9912000143

METHOD BLANK
Matrix: Aqueous

Compound	Units		Result	Date Run
Mercury	mg/L	<	0.001	12/18/99

ATLANTIC ENV.
9912000143

DUPLICATES
Matrix: Aqueous

Compound	Units	Sample		Duplicate	RPD	Date Run
Mercury	mg/L	0.001	<	0.001	N/C	12/18/99

ATLANTIC ENV.
9912000143

MATRIX SPIKE/MATRIX SPIKE DUPLICATES
Matrix: Aqueous

Compound	Units	Spike Sample Result	Spike Duplicate Result		Sample Result	Spike Added	% Recovery	% Recovery Duplicate	Date Run
Mercury	ug/L	9.76	8.98	<	1.0	10.0	97.6	89.8	12/18/99

ATLANTIC ENV.
9912000143

QC SUMMARY
Matrix: Aqueous

Compound	Units	True Value	Range	Result	Date Run
Arsenic	mg/L	1.00	0.85 - 1.15	0.886	12/18/99
Barium	mg/L	1.00	0.85 - 1.15	0.930	12/18/99
Cadmium	mg/L	1.00	0.85 - 1.15	0.924	12/18/99
Chromium	mg/L	1.00	0.85 - 1.15	0.922	12/18/99
Lead	mg/L	1.00	0.85 - 1.15	0.917	12/18/99

ATLANTIC ENV.
9912000143

METHOD BLANK
Matrix: Aqueous

Compound	Units		Result	Date Run
Arsenic	mg/L	<	0.003	12/16/99
Barium	mg/L	<	0.01	12/16/99
Cadmium	mg/L	<	0.005	12/16/99
Chromium	mg/L	<	0.01	12/16/99
Lead	mg/L	<	0.01	12/16/99

ATLANTIC ENV.
9912000143

DUPLICATES
Matrix: Aqueous

Compound	Units		Sample		Duplicate	RPD	Date Run
Arsenic	mg/L	<	0.003	<	0.003	N/C	12/16/99
Barium	mg/L	<	0.01	<	0.01	N/C	12/16/99
Cadmium	mg/L	<	0.005	<	0.005	N/C	12/16/99
Chromium	mg/L		0.02		0.02	N/C	12/16/99
Lead	mg/L	<	0.01	<	0.01	N/C	12/16/99

ATLANTIC ENV.
9912000143

MATRIX SPIKE/MATRIX SPIKE DUPLICATES
Matrix: Aqueous

Compound	Units	Spike Sample Result	Spike Duplicate Result		Sample Result	Spike Added	% Recovery	% Recovery Duplicate	Date Run
Arsenic	mg/L	0.862	0.915	<	0.003	1.00	86.2	91.5	12/16/99
Barium	mg/L	0.971	1.03		0.056	1.00	91.5	97.4	12/16/99
Cadmium	mg/L	0.898	0.952	<	0.01	1.00	89.8	95.2	12/16/99
Chromium	mg/L	0.900	0.954	<	0.01	1.00	90.0	95.4	12/16/99
Lead	mg/L	0.901	0.958	<	0.01	1.00	90.1	95.8	12/16/99

ATLANTIC ENVIRONMENTAL
9912000143

*** Environmental Science Corporation ***

*** QC Summary Report ***

METHOD
8082

DATE
12/16/99

LCS/LCSD SUMMARY

MATRIX : SOLID UNITS : mg/kg

COMPOUND NAME :	TRUE VALUE	LCS	LCS%REC
PCB AROCLOR (1260)	0.33	0.29	87.9

METHOD BLANK REPORT

MATRIX : SOLID UNITS : mg/kg

COMPOUND NAME :	RESULTS
AROCLOR 1016	< 0.1
AROCLOR 1221	< 0.1
AROCLOR 1232	< 0.1
AROCLOR 1242	< 0.1
AROCLOR 1248	< 0.1
AROCLOR 1254	< 0.1
AROCLOR 1260	< 0.1

MATRIX SPIKE SUMMARY

MATRIX : SOLID UNITS : mg/kg

COMPOUND NAME :	TRUE VALUE	RESULTS	DUPLICATE	Spike%REC	Dup%REC	RPD
PCB AROCLOR (1260)	0.33	0.55	0.39	167	118	34.0

ATLANTIC ENV.
9912000143

*** Environmental Science Corporation ***
*** METHOD 8151 ***

DATE: 12/20/99

*** LCS SUMMARY REPORT ***

COMPOUND	MATRIX	UNITS	TRUE VALUE	LCS	%REC1
2,4-D	SOIL	µg/kg	33.3	17	51.1
DALAPON	SOIL	µg/kg	33.3	4.89	14.7
2,4-DB	SOIL	µg/kg	33.3	37.3	112
DICAMBA	SOIL	µg/kg	33.3	25.0	75.1
DICHLOROPROP	SOIL	µg/kg	33.3	17.6	52.9
DINOSEB	SOIL	µg/kg	33.3	19.2	57.7
2,4,5-TP	SOIL	µg/kg	33.3	40.3	121
2,4,5-T	SOIL	µg/kg	33.3	20.9	62.8

*** METHOD BLANK SUMMARY ***

COMPOUND	MATRIX	UNITS	RESULT
2,4-D	SOIL	µg/kg	<10
DALAPON	SOIL	µg/kg	<10
2,4-DB	SOIL	µg/kg	<10
DICAMBA	SOIL	µg/kg	<10
DICHLOROPROP	SOIL	µg/kg	<10
DINOSEB	SOIL	µg/kg	<10
MCPP	SOIL	µg/kg	<1000
MCPA	SOIL	µg/kg	<1000
2,4,5-TP	SOIL	µg/kg	<10
2,4,5-T	SOIL	µg/kg	<10
PCP	SOIL	µg/kg	<10
PICLORAM	SOIL	µg/kg	<10

*** MS/MSD SUMMARY REPORT ***

COMPOUND	MATRIX	UNITS	TRUE VALUE	MS	MSD	%REC1	%REC2	RPD
2,4-D	SOIL	µg/kg	33.3	26.7	14.5	80.2	43.5	59.2
DALAPON	SOIL	µg/kg	33.3	4.26	3.2	12.8	9.61	28.4
2,4-DB	SOIL	µg/kg	33.3	6.73	3.9	20.2	11.7	53.2
DICAMBA	SOIL	µg/kg	33.3	23.6	17.8	70.9	53.5	28.0
DICHLOROPROP	SOIL	µg/kg	33.3	18.3	11.9	55.0	35.7	42.4
DINOSEB	SOIL	µg/kg	33.3	17.5	11.5	52.6	34.5	41.4
2,4,5-TP	SOIL	µg/kg	33.3	20.2	18.3	60.7	55.0	9.9
2,4,5-T	SOIL	µg/kg	33.3	15.1	11.2	45.3	33.6	29.6

ATLANTIC ENVIRONMENTAL
9912000143

*** Environmental Science Corporation ***
*** METHOD 8081 ***

DATE: 12/20/99

*** METHOD BLANK SUMMARY ***

COMPOUND	MATRIX	UNITS	TRUE VALUE
a-BHC	SOIL	mg/kg	< 0.01
g-BHC (LINDANE)	SOIL	mg/kg	< 0.01
b-BHC	SOIL	mg/kg	< 0.01
d-BHC	SOIL	mg/kg	< 0.01
HEPTACHLOR	SOIL	mg/kg	< 0.01
ALDRIN	SOIL	mg/kg	< 0.01
HEPTACHLOR EPOXIDE	SOIL	mg/kg	< 0.01
g-CHLORDANE	SOIL	mg/kg	< 0.01
a-CHLORDANE	SOIL	mg/kg	< 0.01
DDE	SOIL	mg/kg	< 0.01
ENDOSULFAN I	SOIL	mg/kg	< 0.01
DIELDRIN	SOIL	mg/kg	< 0.01
ENDRIN	SOIL	mg/kg	< 0.01
4,4-DDD	SOIL	mg/kg	< 0.01
ENDOSULFAN II	SOIL	mg/kg	< 0.01
4,4-DDT	SOIL	mg/kg	< 0.01
ENDRIN ALDEHYDE	SOIL	mg/kg	< 0.01
ENDOSULFAN SULFATE	SOIL	mg/kg	< 0.01
ENDRIN KETONE	SOIL	mg/kg	< 0.01
METHOXYCHLOR	SOIL	mg/kg	< 0.01
TOXAPHENE	SOIL	mg/kg	< 0.01
CHLORDANE	SOIL	mg/kg	< 0.01

ATLANTIC ENVIRONMENTAL
9912000143

*** Environmental Science Corporation ***
*** QC Summary Report ***
Method: 8021 - 601/602
Matrix: Aqueous/Solid

Date: 12/20/99 LCS Summary Units: µg/L

Compound Name:	True Value	Result	QC Limits
1,1 - Dichloroethane	10.0	9.7	5.0 - 15.0
Chloroform	10.0	10.1	5.9 - 14.1
1,1,1-Trichloroethane	10.0	10.8	4.9 - 15.1
Trichloroethene	10.0	10.3	5.6 - 14.4
Dibromochloromethane	10.0	9.1	6.8 - 13.2
Bromoform	10.0	9.2	6.4 - 13.6
Benzene	10.0	9.5	6.2 - 13.8
Toluene	10.0	9.7	6.8 - 13.2
1,2-Dichlorobenzene	10.0	9.9	7.5 - 12.5

Matrix Spike / Matrix Spike Duplicate Summary

Compound Name:	True Value	MS	MSD	%REC	%REC	RPD
1,1 - Dichloroethane	10.0	10.5	10.6	105	106	0.9
Chloroform	10.0	10.4	10.3	104	103	1.0
1,1,1-Trichloroethane	10.0	11.1	11.0	111	110	0.9
Trichloroethene	10.0	10.5	10.5	105	105	0.0
Dibromochloromethane	10.0	9.9	10.1	99	101	2.0
Bromoform	10.0	8.7	9.3	87	93	6.7
Benzene	10.0	9.5	9.6	95	96	1.0
Toluene	10.0	9.6	9.6	96	96	0.0
1,2-Dichlorobenzene	10.0	8.8	9.1	88	91	3.4

ATLANTIC ENVIRONMENTAL
9912000143

*** Environmental Science Corporation ***
*** Method Blank ***
Method: 8021 - 601/602

Date: 12/20/99 Matrix: Aqueous/Solid Units: µg/L

Compound Name	Result
Benzene	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 1.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorethane	< 1.0
2-Chloroethylvinylether	< 5.0
Chlorobenzene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
2-Chlorotoluene	< 1.0
4-Chlorotoluene	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0
1,2-Dibromoethane	< 1.0
Dibromomethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 1.0
Dichlorodifluoromethane	2.5
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 1.0
1,1-Dichloroethene	< 1.0
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0
1,1-Dichloropropene	< 1.0
cis 1,3-Dichloropropene	< 1.0
trans 1,3-Dichloropropene	< 1.0

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-2 (4-8)	TB-12/8/99A	SS-1 (0.0-0.5)	GP-7 (0-4)
ESC Sample ID:	81808	81809	81810	81811
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Aqueous	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	N/A	N/A	mg/Kg	mg/Kg
Date Analyzed :			12/14/99	12/14/99
Time Analyzed :			14:11	14:43
Analyst:			JVK	JVK

8151A Chlorinated Herbicides

## Dilution Factor ##	N/A	N/A	1.0	1.0
2,4-D	N/A	N/A	< 0.010	< 0.010
2,4-DB	N/A	N/A	< 0.010	< 0.010
2,4,5-T	N/A	N/A	< 0.010	< 0.010
2,4,5-TP (Silvex)	N/A	N/A	< 0.010	< 0.010
Dalapon	N/A	N/A	< 0.010	< 0.010
Dicamba	N/A	N/A	< 0.010	< 0.010
Dichloroprop	N/A	N/A	< 0.010	< 0.010
Dinoseb	N/A	N/A	< 0.010	< 0.010
MCPA	N/A	N/A	< 1.0	< 1.0
MCPP	N/A	N/A	< 1.0	< 1.0
** DCAA **			39%	60%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-12/8/99	SS-2 (0.0-0.5)	SS-12/8/99	GP-6 (6-8)
ESC Sample ID:	81812	81813	81814	81815
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	mg/Kg	mg/Kg	mg/Kg	N/A
Date Analyzed :	12/14/99	12/14/99	12/14/99	
Time Analyzed :	15:14	15:45	16:16	
Analyst:	JVK	JVK	JVK	

8151A Chlorinated Herbicides

## Dilution Factor ##	1.0	1.0	1.0	N/A
2,4-D	< 0.010	< 0.010	< 0.010	N/A
2,4-DB	< 0.010	< 0.010	< 0.010	N/A
2,4,5-T	< 0.010	< 0.010	< 0.010	N/A
2,4,5-TP (Silvex)	< 0.010	< 0.010	< 0.010	N/A
Dalapon	< 0.010	< 0.010	< 0.010	N/A
Dicamba	< 0.010	< 0.010	< 0.010	N/A
Dichloroprop	< 0.010	< 0.010	< 0.010	N/A
Dinoseb	< 0.010	< 0.010	< 0.010	N/A
MCPA	< 1.0	< 1.0	< 1.0	N/A
MCPP	< 1.0	< 1.0	< 1.0	N/A
** DCAA **	57%	53%	52%	

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle R. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-2 (4-8)	TB-12/8/99A	SS-1 (0.0-0.5)	GP-7 (0-4)
ESC Sample ID:	81808	81809	81810	81811
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Aqueous	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	N/A	N/A	mg/Kg	mg/Kg
Date Analyzed :			12/20/99	12/20/99
Time Analyzed :			17:21	17:50
Analyst:			JVK	JVK

8081A Pesticides

## Dilution Factor ##	N/A	N/A	1.0	1.0
Aldrin	N/A	N/A	< 0.010	< 0.010
a-BHC	N/A	N/A	< 0.010	< 0.010
b-BHC	N/A	N/A	< 0.010	< 0.010
d-BHC	N/A	N/A	< 0.010	< 0.010
Lindane	N/A	N/A	< 0.010	< 0.010
Chlordane	N/A	N/A	< 0.010	< 0.010
4,4'-DDD	N/A	N/A	< 0.010	< 0.010
4,4'-DDE	N/A	N/A	< 0.010	< 0.010
4,4'-DDT	N/A	N/A	< 0.010	< 0.010
Dieldrin	N/A	N/A	< 0.010	< 0.010
Endosulfan I	N/A	N/A	< 0.010	< 0.010
Endosulfan II	N/A	N/A	< 0.010	< 0.010
Endosulfan sulfate	N/A	N/A	< 0.010	< 0.010
Endrin	N/A	N/A	< 0.010	< 0.010
Endrin aldehyde	N/A	N/A	< 0.010	< 0.010
Heptachlor	N/A	N/A	< 0.010	< 0.010
Heptachlor epoxide	N/A	N/A	< 0.010	< 0.010
Methoxychlor	N/A	N/A	< 0.010	< 0.010
Toxaphene	N/A	N/A	< 0.010	< 0.010
** TCMX **			97%	94%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-12/8/99	SS-2 (0.0-0.5)	SS-12/8/99	GP-6 (6-8)
ESC Sample ID:	81812	81813	81814	81815
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	mg/Kg	mg/Kg	mg/Kg	N/A
Date Analyzed :	12/20/99	12/20/99	12/20/99	
Time Analyzed :	18:20	18:49	19:19	
Analyst:	JVK	JVK	JVK	

8081A Pesticides

## Dilution Factor ##	1.0	1.0	1.0	N/A
Aldrin	< 0.010	< 0.010	< 0.010	N/A
a-BHC	< 0.010	< 0.010	< 0.010	N/A
b-BHC	< 0.010	< 0.010	< 0.010	N/A
d-BHC	< 0.010	< 0.010	< 0.010	N/A
Lindane	< 0.010	< 0.010	< 0.010	N/A
Chlordane	< 0.010	< 0.010	< 0.010	N/A
4,4'-DDD	< 0.010	< 0.010	< 0.010	N/A
4,4'-DDE	< 0.010	< 0.010	< 0.010	N/A
4,4'-DDT	< 0.010	< 0.010	< 0.010	N/A
Dieldrin	< 0.010	< 0.010	< 0.010	N/A
Endosulfan I	< 0.010	< 0.010	< 0.010	N/A
Endosulfan II	< 0.010	< 0.010	< 0.010	N/A
Endosulfan sulfate	< 0.010	< 0.010	< 0.010	N/A
Endrin	< 0.010	< 0.010	< 0.010	N/A
Endrin aldehyde	< 0.010	< 0.010	< 0.010	N/A
Heptachlor	< 0.010	< 0.010	< 0.010	N/A
Heptachlor epoxide	< 0.010	< 0.010	< 0.010	N/A
Methoxychlor	< 0.010	< 0.010	< 0.010	N/A
Toxaphene	< 0.010	< 0.010	< 0.010	N/A
** TCMX **	97%	71%	80%	

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-2 (4-8)	TB-12/8/99A	SS-1 (0.0-0.5)	GP-7 (0-4)
ESC Sample ID:	81808	81809	81810	81811
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Aqueous	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	N/A	N/A	µg/Kg	µg/Kg
Date Analyzed :			12/17/99	12/15/99
Time Analyzed :			20:58	17:49
Analyst:			MAA	MAA

8270C Semivolatile Organics - TCL

## Dilution Factor ##	N/A	N/A	50	10
Acenaphthene	N/A	N/A	< 8500	< 1700
Acenaphthylene	N/A	N/A	< 8500	< 1700
Anthracene	N/A	N/A	< 8500	< 1700
Benzo(a)anthracene	N/A	N/A	< 8500	< 1700
Benzo(b)fluoranthene	N/A	N/A	< 8500	< 1700
Benzo(k)fluoranthene	N/A	N/A	< 8500	2000
Benzo(g,h,i)perylene	N/A	N/A	< 16500	< 3300
Benzo(a)pyrene	N/A	N/A	< 8500	< 1700
Bis(2-chloroethoxy)methane	N/A	N/A	< 8500	< 1700
Bis(2-chloroethyl)ether	N/A	N/A	< 8500	< 1700
2,2'-oxybis(1-Chloropropane)	N/A	N/A	< 25000	< 5000
Bis(2-ethylhexyl)phthalate	N/A	N/A	< 8500	< 1700
4-Bromophenyl phenyl ether	N/A	N/A	< 8500	< 1700
Butyl benzyl phthalate	N/A	N/A	< 8500	< 1700
Carbazole	N/A	N/A	< 8500	< 1700
4-Chloroaniline	N/A	N/A	< 16500	< 3300
2-Chloronaphthalene	N/A	N/A	< 8500	< 1700
4-Chloro-3-methylphenol	N/A	N/A	< 16500	< 3300
2-Chlorophenol	N/A	N/A	< 16500	< 3300
4-Chlorophenyl phenyl ether	N/A	N/A	< 8500	< 1700
Chrysene	N/A	N/A	< 8500	1800
Dibenz(a,h)anthracene	N/A	N/A	< 8500	< 1700
Dibenzofuran	N/A	N/A	< 8500	< 1700
Di-n-butyl phthalate	N/A	N/A	< 8500	< 1700

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

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FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-2 (4-8)	TB-12/8/99A	SS-1 (0.0-0.5)	GP-7 (0-4)
ESC Sample ID:	81808	81809	81810	81811
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Aqueous	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	N/A	N/A	µg/Kg	µg/Kg
Date Analyzed :			12/17/99	12/15/99
Time Analyzed :			20:58	17:49
Analyst:			MAA	MAA

8270C Semivolatile Organics - TCL

1,3-Dichlorobenzene	N/A	N/A	< 8500	< 1700
1,4-Dichlorobenzene	N/A	N/A	< 8500	< 1700
1,2-Dichlorobenzene	N/A	N/A	< 8500	< 1700
3,3'-Dichlorobenzidine	N/A	N/A	< 16500	< 3300
2,4-Dichlorophenol	N/A	N/A	< 16500	< 3300
Diethyl phthalate	N/A	N/A	< 8500	< 1700
2,4-Dimethylphenol	N/A	N/A	< 16500	< 3300
Dimethyl phthalate	N/A	N/A	< 8500	< 1700
4,6-Dinitro-2-methylphenol	N/A	N/A	< 16500	< 3300
2,4-Dinitrophenol	N/A	N/A	< 16500	< 3300
2,4-Dinitrotoluene	N/A	N/A	< 8500	< 1700
2,6-Dinitrotoluene	N/A	N/A	< 8500	< 1700
Di-n-octyl phthalate	N/A	N/A	< 16500	< 3300
Fluoranthene	N/A	N/A	< 8500	2200
Fluorene	N/A	N/A	< 8500	< 1700
Hexachlorobenzene	N/A	N/A	< 8500	< 1700
Hexachlorobutadiene	N/A	N/A	< 8500	< 1700
Hexachlorocyclopentadiene	N/A	N/A	< 8500	< 1700
Hexachloroethane	N/A	N/A	< 8500	< 1700
Indeno(1,2,3-cd)pyrene	N/A	N/A	< 8500	< 1700
Isophorone	N/A	N/A	< 8500	< 1700
2-Methylnaphthalene	N/A	N/A	< 8500	< 1700
2-Methylphenol (o-cresol)	N/A	N/A	< 16500	< 3300
4-Methylphenol (p-cresol)	N/A	N/A	< 16500	< 3300
Naphthalene	N/A	N/A	< 8500	< 1700
2-Nitroaniline	N/A	N/A	< 8500	< 1700
3-Nitroaniline	N/A	N/A	< 8500	< 1700

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-2 (4-8)	TB-12/8/99A	SS-1 (0.0-0.5)	GP-7 (0-4)
ESC Sample ID:	81808	81809	81810	81811
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Aqueous	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	N/A	N/A	µg/Kg	µg/Kg
Date Analyzed :			12/17/99	12/15/99
Time Analyzed :			20:58	17:49
Analyst:			MAA	MAA

8270C Semivolatile Organics - TCL

4-Nitroaniline	N/A	N/A	< 16500	< 3300
Nitrobenzene	N/A	N/A	< 8500	< 1700
2-Nitrophenol	N/A	N/A	< 16500	< 3300
4-Nitrophenol	N/A	N/A	< 16500	< 3300
N-Nitrosodiphenylamine	N/A	N/A	< 8500	< 1700
N-Nitrosodi-n-propylamine	N/A	N/A	< 8500	< 1700
Pentachlorophenol	N/A	N/A	< 16500	< 3300
Phenanthrene	N/A	N/A	< 8500	< 1700
Phenol	N/A	N/A	< 16500	< 3300
Pyrene	N/A	N/A	< 8500	2600
1,2,4-Trichlorobenzene	N/A	N/A	< 8500	< 1700
2,4,5-Trichlorophenol	N/A	N/A	< 16500	< 3300
2,4,6-Trichlorophenol	N/A	N/A	< 16500	< 3300
** 2-Fluorophenol **			0%D	20%D
** Phenol-d5 **			0%D	31%
** Nitrobenzene-d5 **			0%D	8%D
** 2-Fluorobiphenyl **			54%	74%
** 2,4,6-Tribromophenol **			49%	63%
** Terphenyl-d14 **			102%	89%
** 1,2-Dichlorobenzene-d4 **			76%	53%
** 2-Chlorophenol-d4 **			0%D	49%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

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Lab Report Number: **9912000142**

Client: **Atlantic Environmental**
Mr. Lynn Willey

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-12/8/99	SS-2 (0.0-0.5)	SS-12/8/99	GP-6 (6-8)
ESC Sample ID:	81812	81813	81814	81815
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	N/A
Date Analyzed :	12/15/99	12/15/99	12/15/99	
Time Analyzed :	18:37	19:27	20:15	
Analyst:	MAA	MAA	MAA	

8270C Semivolatile Organics - TCL

## Dilution Factor ##	10	1.0	10	N/A
Acenaphthene	< 1700	< 170	< 1700	N/A
Acenaphthylene	< 1700	< 170	< 1700	N/A
Anthracene	< 1700	< 170	2100	N/A
Benzo(a)anthracene	< 1700	340	5100	N/A
Benzo(b)fluoranthene	< 1700	410	3500	N/A
Benzo(k)fluoranthene	1700	480	4900	N/A
Benzo(g,h,i)perylene	< 3300	< 330	< 3300	N/A
Benzo(a)pyrene	< 1700	< 170	< 1700	N/A
Bis(2-chloroethoxy)methane	< 1700	< 170	< 1700	N/A
Bis(2-chloroethyl)ether	< 1700	< 170	< 1700	N/A
2,2'-oxybis(1-Chloropropane)	< 5000	< 500	< 5000	N/A
Bis(2-ethylhexyl)phthalate	< 1700	< 170	< 1700	N/A
4-Bromophenyl phenyl ether	< 1700	< 170	< 1700	N/A
Butyl benzyl phthalate	< 1700	< 170	< 1700	N/A
Carbazole	< 1700	< 170	< 1700	N/A
4-Chloroaniline	< 3300	< 330	< 3300	N/A
2-Chloronaphthalene	< 1700	< 170	< 1700	N/A
4-Chloro-3-methylphenol	< 3300	< 330	< 3300	N/A
2-Chlorophenol	< 3300	< 330	< 3300	N/A
4-Chlorophenyl phenyl ether	< 1700	< 170	< 1700	N/A
Chrysene	< 1700	470	5400	N/A
Dibenz(a,h)anthracene	< 1700	< 170	< 1700	N/A
Dibenzofuran	< 1700	< 170	< 1700	N/A
Di-n-butyl phthalate	< 1700	< 170	< 1700	N/A

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

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Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-12/8/99	SS-2 (0.0-0.5)	SS-12/8/99	GP-6 (6-8)
ESC Sample ID:	81812	81813	81814	81815
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	N/A
Date Analyzed :	12/15/99	12/15/99	12/15/99	
Time Analyzed :	18:37	19:27	20:15	
Analyst:	MAA	MAA	MAA	

8270C Semivolatile Organics - TCL

1,3-Dichlorobenzene	< 1700	< 170	< 1700	N/A
1,4-Dichlorobenzene	< 1700	< 170	< 1700	N/A
1,2-Dichlorobenzene	< 1700	< 170	< 1700	N/A
3,3'-Dichlorobenzidine	< 3300	< 330	< 3300	N/A
2,4-Dichlorophenol	< 3300	< 330	< 3300	N/A
Diethyl phthalate	< 1700	< 170	< 1700	N/A
2,4-Dimethylphenol	< 3300	< 330	< 3300	N/A
Dimethyl phthalate	< 1700	< 170	< 1700	N/A
4,6-Dinitro-2-methylphenol	< 3300	< 330	< 3300	N/A
2,4-Dinitrophenol	< 3300	< 330	< 3300	N/A
2,4-Dinitrotoluene	< 1700	< 170	< 1700	N/A
2,6-Dinitrotoluene	< 1700	< 170	< 1700	N/A
Di-n-octyl phthalate	< 3300	< 330	< 3300	N/A
Fluoranthene	1900	680	10000	N/A
Fluorene	< 1700	< 170	< 1700	N/A
Hexachlorobenzene	< 1700	< 170	< 1700	N/A
Hexachlorobutadiene	< 1700	< 170	< 1700	N/A
Hexachlorocyclopentadiene	< 1700	< 170	< 1700	N/A
Hexachloroethane	< 1700	< 170	< 1700	N/A
Indeno(1,2,3-cd)pyrene	< 1700	< 170	< 1700	N/A
Isophorone	< 1700	< 170	< 1700	N/A
2-Methylnaphthalene	< 1700	< 170	< 1700	N/A
2-Methylphenol (o-cresol)	< 3300	< 330	< 3300	N/A
4-Methylphenol (p-cresol)	< 3300	< 330	< 3300	N/A
Naphthalene	< 1700	< 170	< 1700	N/A
2-Nitroaniline	< 1700	< 170	< 1700	N/A
3-Nitroaniline	< 1700	< 170	< 1700	N/A

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

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Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-12/8/99	SS-2 (0.0-0.5)	SS-12/8/99	GP-6 (6-8)
ESC Sample ID:	81812	81813	81814	81815
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	N/A
Date Analyzed :	12/15/99	12/15/99	12/15/99	
Time Analyzed :	18:37	19:27	20:15	
Analyst:	MAA	MAA	MAA	

8270C Semivolatile Organics - TCL

4-Nitroaniline	< 3300	< 330	< 3300	N/A
Nitrobenzene	< 1700	< 170	< 1700	N/A
2-Nitrophenol	< 3300	< 330	< 3300	N/A
4-Nitrophenol	< 3300	< 330	< 3300	N/A
N-Nitrosodiphenylamine	< 1700	< 170	< 1700	N/A
N-Nitrosodi-n-propylamine	< 1700	< 170	< 1700	N/A
Pentachlorophenol	< 3300	< 330	< 3300	N/A
Phenanthrene	< 1700	280	7700	N/A
Phenol	< 3300	< 330	< 3300	N/A
Pyrene	2400	740	12000	N/A
1,2,4-Trichlorobenzene	< 1700	< 170	< 1700	N/A
2,4,5-Trichlorophenol	< 3300	< 330	< 3300	N/A
2,4,6-Trichlorophenol	< 3300	< 330	< 3300	N/A
** 2-Fluorophenol **	12%D	31%	14%D	
** Phenol-d5 **	21%D	40%	35%	
** Nitrobenzene-d5 **	25%	41%	41%	
** 2-Fluorobiphenyl **	56%	47%	86%	
** 2,4,6-Tribromophenol **	50%	68%	71%	
** Terphenyl-d14 **	75%	88%	97%	
** 1,2-Dichlorobenzene-d4 **	41%	37%	53%	
** 2-Chlorophenol-d4 **	13%	35%	51%	

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**
Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**
Date Received: **12/09/99**

Project Number: **99459**
Contract Number: **N/A**

Client Sample ID:	**GP-6 (0-2)**	**GP-6 (2-4)**
ESC Sample ID:	**81816**	**81817**
Location:	**Guil/Mad/Clint**	**Guil/Mad/Clint**
Matrix:	**Soil**	**Soil**
Date Sampled:	**12/08/99**	**12/08/99**
** TEST ** **Units:**	**µg/Kg**	**N/A**

Date Analyzed : 12/17/99
Time Analyzed : 15:16
Analyst: MAA

8270C Semivolatile Organics - TCL

## Dilution Factor ##		1.0	N/A
Acenaphthene	<	170	N/A
Acenaphthylene	<	170	N/A
Anthracene	<	170	N/A
Benzo(a)anthracene	<	170	N/A
Benzo(b)fluoranthene	<	170	N/A
Benzo(k)fluoranthene	<	170	N/A
Benzo(g,h,i)perylene	<	330	N/A
Benzo(a)pyrene	<	170	N/A
Bis(2-chloroethoxy)methane	<	170	N/A
Bis(2-chloroethyl)ether	<	170	N/A
2,2'-oxybis(1-Chloropropane)	<	500	N/A
Bis(2-ethylhexyl)phthalate	<	170	N/A
4-Bromophenyl phenyl ether	<	170	N/A
Butyl benzyl phthalate	<	170	N/A
Carbazole	<	170	N/A
4-Chloroaniline	<	330	N/A
2-Chloronaphthalene	<	170	N/A
4-Chloro-3-methylphenol	<	330	N/A
2-Chlorophenol	<	330	N/A
4-Chlorophenyl phenyl ether	<	170	N/A
Chrysene	<	170	N/A
Dibenz(a,h)anthracene	<	170	N/A
Dibenzofuran	<	170	N/A
Di-n-butyl phthalate	<	170	N/A

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

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12/22/99
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Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	**GP-6 (0-2)**	**GP-6 (2-4)**
ESC Sample ID:	**81816**	**81817**
Location:	**Guil/Mad/Clint**	**Guil/Mad/Clint**
Matrix:	**Soil**	**Soil**
Date Sampled:	**12/08/99**	**12/08/99**
** TEST ** **Units:**	**µg/Kg**	**N/A**

Date Analyzed :	12/17/99
Time Analyzed :	15:16
Analyst:	MAA

8270C Semivolatile Organics - TCL

1,3-Dichlorobenzene	<	170	N/A
1,4-Dichlorobenzene	<	170	N/A
1,2-Dichlorobenzene	<	170	N/A
3,3'-Dichlorobenzidine	<	330	N/A
2,4-Dichlorophenol	<	330	N/A
Diethyl phthalate	<	170	N/A
2,4-Dimethylphenol	<	330	N/A
Dimethyl phthalate	<	170	N/A
4,6-Dinitro-2-methylphenol	<	330	N/A
2,4-Dinitrophenol	<	330	N/A
2,4-Dinitrotoluene	<	170	N/A
2,6-Dinitrotoluene	<	170	N/A
Di-n-octyl phthalate	<	330	N/A
Fluoranthene	<	170	N/A
Fluorene	<	170	N/A
Hexachlorobenzene	<	170	N/A
Hexachlorobutadiene	<	170	N/A
Hexachlorocyclopentadiene	<	170	N/A
Hexachloroethane	<	170	N/A
Indeno(1,2,3-cd)pyrene	<	170	N/A
Isophorone	<	170	N/A
2-Methylnaphthalene	<	170	N/A
2-Methylphenol (o-cresol)	<	330	N/A
4-Methylphenol (p-cresol)	<	330	N/A
Naphthalene	<	170	N/A
2-Nitroaniline	<	170	N/A
3-Nitroaniline	<	170	N/A

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

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Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**
Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	**GP-6 (0-2)**	**GP-6 (2-4)**
ESC Sample ID:	**81816**	**81817**
Location:	**Guil/Mad/Clint**	**Guil/Mad/Clint**
Matrix:	**Soil**	**Soil**
Date Sampled:	**12/08/99**	**12/08/99**
**** TEST ** Units:**	**µg/Kg**	**N/A**

Date Analyzed : 12/17/99
Time Analyzed : 15:16
Analyst: MAA

8270C Semivolatile Organics - TCL

4-Nitroaniline	<	330	N/A
Nitrobenzene	<	170	N/A
2-Nitrophenol	<	330	N/A
4-Nitrophenol	<	330	N/A
N-Nitrosodiphenylamine	<	170	N/A
N-Nitrosodi-n-propylamine	<	170	N/A
Pentachlorophenol	<	330	N/A
Phenanthrene	<	170	N/A
Phenol	<	330	N/A
Pyrene	<	170	N/A
1,2,4-Trichlorobenzene	<	170	N/A
2,4,5-Trichlorophenol	<	330	N/A
2,4,6-Trichlorophenol	<	330	N/A

** 2-Fluorophenol **	50%
** Phenol-d5 **	61%
** Nitrobenzene-d5 **	68%
** 2-Fluorobiphenyl **	78%
** 2,4,6-Tribromophenol **	66%
** Terphenyl-d14 **	90%
** 1,2-Dichlorobenzene-d4 **	61%
** 2-Chlorophenol-d4 **	56%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

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Client: Atlantic Environmental
Mr. Lynn Willey

Lab Report Number: 9912000142
Purchase Order #: N/A
Date Received: 12/09/99
Contract Number: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Client Sample ID:	GP-2 (4-8)	TB-12/8/99A	SS-1 (0.0-0.5)	GP-7 (0-4)
ESC Sample ID:	81808	81809	81810	81811
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Aqueous	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/L	µg/Kg	µg/Kg
Date Analyzed :	12/19/99	12/18/99	12/19/99	12/19/99
Time Analyzed :	15:52	11:33	18:48	19:47
Analyst:	AP	AP	AP	AP

8021B Aromatic and Halogenated Volatiles

## Dilution Factor ##	1	1	1	1
Benzene	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	< 1.0	< 1.0	< 1.0	< 1.0
2-Chloroethyl vinyl ether	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane (EDB)	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

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Laboratory Director

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Client: Atlantic Environmental
Mr. Lynn Willey

Lab Report Number: 9912000142
Purchase Order #: N/A
Date Received: 12/09/99
Contract Number: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Client Sample ID:	GP-2 (4-8)	TB-12/8/99A	SS-1 (0.0-0.5)	GP-7 (0-4)
ESC Sample ID:	81808	81809	81810	81811
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Aqueous	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/L	µg/Kg	µg/Kg
Date Analyzed :	12/19/99	12/18/99	12/19/99	12/19/99
Time Analyzed :	15:52	11:33	18:48	19:47
Analyst:	AP	AP	AP	AP

8021B Aromatic and Halogenated Volatiles

Dichlorodifluoromethane	3.2	2.6	8.1	18
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	5.0	1.9	13	54
Naphthalene	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	< 1.0	< 1.0	< 1.0	1.4
Toluene	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
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Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-2 (4-8)	TB-12/8/99A	SS-1 (0.0-0.5)	GP-7 (0-4)
ESC Sample ID:	81808	81809	81810	81811
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Aqueous	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/L	µg/Kg	µg/Kg
Date Analyzed :	12/19/99	12/18/99	12/19/99	12/19/99
Time Analyzed :	15:52	11:33	18:48	19:47
Analyst:	AP	AP	AP	AP
8021B Aromatic and Halogenated Volatiles				
Trichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylene	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	< 1.0	< 1.0	< 1.0	< 1.0
** 1,4-Dichlorobutane **	110%	114%	134%	130%
** Trifluorotoluene **	99%	97%	94%	90%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

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Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**
Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**
Date Received: **12/09/99**

Project Number: **99459**
Contract Number: **N/A**

Client Sample ID:	GP-12/8/99	SS-2 (0.0-0.5)	SS-12/8/99	GP-6 (6-8)
ESC Sample ID:	81812	81813	81814	81815
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Date Analyzed :	12/20/99	12/20/99	12/20/99	12/20/99
Time Analyzed :	11:31	12:30	13:29	14:28
Analyst:	AP	AP	AP	AP

8021B Aromatic and Halogenated Volatiles

## Dilution Factor ##	1	1	1	1
Benzene	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	< 1.0	< 1.0	< 1.0	< 1.0
2-Chloroethyl vinyl ether	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane (EDB)	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

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Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-12/8/99	SS-2 (0.0-0.5)	SS-12/8/99	GP-6 (6-8)
ESC Sample ID:	81812	81813	81814	81815
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Date Analyzed :	12/20/99	12/20/99	12/20/99	12/20/99
Time Analyzed :	11:31	12:30	13:29	14:28
Analyst:	AP	AP	AP	AP

8021B Aromatic and Halogenated Volatiles

Dichlorodifluoromethane	6.8	5.0	5.9	2.6
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	25	12	7.7	2.4
Naphthalene	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	1.4	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-12/8/99	SS-2 (0.0-0.5)	SS-12/8/99	GP-6 (6-8)
ESC Sample ID:	81812	81813	81814	81815
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Date Analyzed :	12/20/99	12/20/99	12/20/99	12/20/99
Time Analyzed :	11:31	12:30	13:29	14:28
Analyst:	AP	AP	AP	AP
8021B Aromatic and Halogenated Volatiles				
Trichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylene	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	< 1.0	< 1.0	< 1.0	< 1.0
** 1,4-Dichlorobutane **	119%	121%	128%	115%
** Trifluorotoluene **	90%	97%	93%	100%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

SCIENCE CORPORATION
[illegible] INDUSTRIAL PARK ROAD
MIDDLETOWN, CT 06457
PHONE: (860) 632-0600
FAX #: (860) 632-7743

Analytical Laboratory Service

CHAIN OF CUSTODY

(Please Print) pg ____ of ____

PROJECT INFORMATION	CLIENT INFORMATION
PROJECT NAME/NUMBER: Guilford/Madison/Clinton RR Study 99459	SEND REPORTS TO: Lynn Willey
PROJECT LOCATION: Guilford, Madison, Clinton, CT	COMPANY: GET Consultants/ Atlantic Environ
PROJECT MANAGER: Sue Curran	ADDRESS: 188 Norwich Ave
SAMPLER(S): Lynn Willey	Colchester, CT 06415
LAB QUOTE #:	PHONE: 860-537-0751
PO#:	FAX: 860-537-6347

DO YOU AUTHORIZE SAMPLES TO BE RETURNED TO YOUR FIRM? ☐ YES ☑ NO

TURNAROUND (TAT)
☑ Standard 10 business days
☐ Other (specify):
Note: Less than 10 days must be pre-approved

FINAL REPORT:
☑ Mail ☑ Fax
☐ E-mail
Diskette ☐ DBF ☐ XLS

ANALYSIS REQUIRED
IF SPECIAL OR NON-ROUTINE DETECTION LIMITS ARE REQUIRED PLEASE CALL THE LAB

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE TYPE	# OF CONTAINERS	VOC EPA METHOD 8021B	SVOC EPA METHOD 8270	TPH EPA METHOD 418.1	RCRA - 8 metals SW846 6000	RCRA - 8 SPLP metals EPA METHOD 13	PCB / Pesticides EPA Method 8080	Herbicides EPA Method 8150				✓ IF FIELD FILTERED	CONDITION UPON RECEIPT
1. CoP-2 (4.5)	12/8/99	1430	Soil	1	✓											
2. TB- 12/8/99A	12/8/99	–	water	2	✓											
3. SS-1 (0.0-0.5)	12/8/99	1505	Soil	4 3	✓	✓	✓	✓	✓	✓	✓					
4. CoP-7 (0.4)	12/8/99	1056	Soil	3	✓	✓	✓	✓	✓	✓	✓					
5. CoP- 12/8/99	12/8/99	800	Soil	3	✓	✓	✓	✓	✓	✓	✓					
6. SS 2 (0.0 - 0.5)	12/8/99	1130	Soil	3	✓	✓	✓	✓	✓	✓	✓					
7. SS -10 12/8/99	12/8/99	801	Soil	3	✓	✓	✓	✓	✓	✓	✓					
8. CoP-6 (6.8)	12/8/99	1020	Soil	1	✓											
9. CoP-6 (0.2)	12/8/99	955	Soil	2		✓	✓									
10. CoP-6 (2.4)	12/8/99	1000	Soil	1				✓	✓							
HAVE HOLDING TIMES BEEN MET- YES(Y) OR NO(N)					Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	
SAMPLE PRESERVED WITH:					→	ICE	ICE	ICE	ICE	ICE	ICE					

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
[signature]	12/9/1150	[signature]	12/9/99 1150
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME

REMARKS/NOTES:
Standard Turnaround TIME
Low MDLS (GA - SWDC Criteria)
Call if any questions
Thanks [signature]

NET TERMS: 30 Days: Costs of collection, including attorney's fees, will be added to accounts referred for collection.

The customer agrees that submission of a sample for testing to ESC shall be deemed to be consent to the terms and conditions of this agreement as shown on reverse.

CUSTOMER SIGNATURE - REQUIRED
X [signature]

DATE 12/9/99 1150

#011 (9/99)

ENVIRONMENTAL SCIENCE CORP.
WET CHEMISTRY
***** QC SUMMARY *****

CLIENT: **GEI/ATLANTIC DIV.** **DATE:** **12/19/99**
LOG #: **9912000142** **MATRIX:** **Aqueous**

Dates Analyzed: 12/19/99

ANALYSIS DESCRIPTION	TRUE VALUE	95% CI	RESULT
Total Petroleum Hydrocarbon	200	NA	191 mg/kg

ENVIRONMENTAL SCIENCE CORP.
WET CHEMISTRY
***** METHOD BLANK SUMMARY *****

CLIENT: **GEI/ATLANTIC DIV.** **DATE:** **12/19/99**
LOG #: **9912000142** **MATRIX:** **Aqueous**

Dates Analyzed: 12/19/99

ANALYSIS DESCRIPTION	RESULT	
Total Petroleum Hydrocarbon	<5.0	mg/kg

ENVIRONMENTAL SCINECE CORP.
WET CHEMISTRY
***** DUPLICATES *****

CLIENT GEI/ATLANTIC DIV. **DATE: 12/19/99**
LOG #: 9912000142 **MATRIX: Aqueous**

Dates Analyzed: 12/19/99

ANALYSIS DESCRIPTION	SAMPLE RESULT		DUPLICATE AMOUNT	RELATIVE % DEVIATION
Total Petroleum Hydrocarbon	NA	mg/kg	NA	N/C

ENVIRONMENTAL SCIENCE CORP.
WET CHEMISTRY
***** MATRIX SPIKE - DUPLICATE RECOVERY *****

CLIENT: **GEI/ATLANTIC DIV.** **DATE:** **12/19/99**
LOG #: **9912000142** **MATRIX:** **Aqueous**

Dates Analyzed: 12/19/99

ANALYSIS DESCRIPTION	Units	RESULT SPIKE 1	RESULT SPIKE 2	SAMPLE RESULT	SPIKE ADDED	%R SPIKE 1	%R SPIKE 2
Total Petroleum Hydrocarbon	mg/kg	224	231		221	101.0%	105.0%

ATLANTIC ENV.
9912000142

QC SUMMARY
Matrix: Aqueous

Compound	Units	True Value	Range	Result	Date Run
Arsenic	mg/L	1.00	0.85 - 1.15	0.886	12/18/99
Barium	mg/L	1.00	0.85 - 1.15	0.930	12/18/99
Cadmium	mg/L	1.00	0.85 - 1.15	0.924	12/18/99
Chromium	mg/L	1.00	0.85 - 1.15	0.922	12/18/99
Lead	mg/L	1.00	0.85 - 1.15	0.917	12/18/99

ATLANTIC ENVIRONMENTAL
9912000142

*** Environmental Science Corporation ***
*** Method Blank ***
Method: 8021 - 601/602

Date: 12/18/99 Matrix: Aqueous/Solid Units: µg/L

Compound Name	Result
Benzene	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 1.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorethane	< 1.0
2-Chloroethylvinylether	< 5.0
Chlorobenzene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
2-Chlorotoluene	< 1.0
4-Chlorotoluene	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0
1,2-Dibromoethane	< 1.0
Dibromomethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 1.0
Dichlorodifluoromethane	2.4
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 1.0
1,1-Dichloroethene	< 1.0
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0
1,1-Dichloropropene	< 1.0
cis 1,3-Dichloropropene	< 1.0
trans 1,3-Dichloropropene	< 1.0

ATLANTIC ENVIRONMENTAL
9912000142

*** Environmental Science Corporation ***
*** Method Blank ***
Method: 8021 - 601/602

Date: 12/19/99 Matrix: Aqueous/Solid Units: µg/L

Compound Name	Result
Benzene	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 1.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorethane	< 1.0
2-Chloroethylvinylether	< 5.0
Chlorobenzene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
2-Chlorotoluene	< 1.0
4-Chlorotoluene	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0
1,2-Dibromoethane	< 1.0
Dibromomethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 1.0
Dichlorodifluoromethane	2.5
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 1.0
1,1-Dichloroethene	< 1.0
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0
1,1-Dichloropropene	< 1.0
cis 1,3-Dichloropropene	< 1.0
trans 1,3-Dichloropropene	< 1.0

*** Method Blank ***
Method 8021
(cont.)

Date: 12/19/99 Matrix: Aqueous/Solid Units: µg/L

Compound Name	Result
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 1.0
Isopropylbenzene	< 1.0
4-Isopropyltoluene	< 1.0
Methylene Chloride	1.8
Methyl tert-butyl ether	< 1.0
Naphthalene	< 1.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 1.0
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 1.0
1,2,4-Trichlorobenzene	< 1.0
1,1,1-Trichloroethane	< 1.0
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 1.0
Trichlorofluoromethane	< 1.0
1,2,3-Trichloropropane	< 1.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl Chloride	< 1.0
m&p-Xylene	< 1.0
o-Xylene	< 1.0

ATLANTIC ENVIRONMENTAL
9912000142

*** Environmental Science Corporation ***
*** METHOD 8081 ***

DATE: 12/20/99

*** METHOD BLANK SUMMARY ***

COMPOUND	MATRIX	UNITS	TRUE VALUE
a-BHC	SOIL	mg/kg	< 0.01
g-BHC (LINDANE)	SOIL	mg/kg	< 0.01
b-BHC	SOIL	mg/kg	< 0.01
d-BHC	SOIL	mg/kg	< 0.01
HEPTACHLOR	SOIL	mg/kg	< 0.01
ALDRIN	SOIL	mg/kg	< 0.01
HEPTACHLOR EPOXIDE	SOIL	mg/kg	< 0.01
g-CHLORDANE	SOIL	mg/kg	< 0.01
a-CHLORDANE	SOIL	mg/kg	< 0.01
DDE	SOIL	mg/kg	< 0.01
ENDOSULFAN I	SOIL	mg/kg	< 0.01
DIELDRIN	SOIL	mg/kg	< 0.01
ENDRIN	SOIL	mg/kg	< 0.01
4,4-DDD	SOIL	mg/kg	< 0.01
ENDOSULFAN II	SOIL	mg/kg	< 0.01
4,4-DDT	SOIL	mg/kg	< 0.01
ENDRIN ALDEHYDE	SOIL	mg/kg	< 0.01
ENDOSULFAN SULFATE	SOIL	mg/kg	< 0.01
ENDRIN KETONE	SOIL	mg/kg	< 0.01
METHOXYCHLOR	SOIL	mg/kg	< 0.01
TOXAPHENE	SOIL	mg/kg	< 0.01
CHLORDANE	SOIL	mg/kg	< 0.01

ATLANTIC ENVIRONMENTAL
9912000142

*** Environmental Science Corporation ***

*** QC Summary Report ***

METHOD
8082

DATE
12/16/99

LCS/LCSD SUMMARY

MATRIX : SOLID UNITS : mg/kg

COMPOUND NAME :	TRUE VALUE	LCS	LCS%REC
PCB AROCLOR (1260)	0.33	0.29	87.9

METHOD BLANK REPORT

MATRIX : SOLID UNITS : mg/kg

COMPOUND NAME :	RESULTS
AROCLOR 1016	< 0.1
AROCLOR 1221	< 0.1
AROCLOR 1232	< 0.1
AROCLOR 1242	< 0.1
AROCLOR 1248	< 0.1
AROCLOR 1254	< 0.1
AROCLOR 1260	< 0.1

MATRIX SPIKE SUMMARY

MATRIX : SOLID UNITS : mg/kg

COMPOUND NAME :	TRUE VALUE	RESULTS	DUPLICATE	Spike%REC	Dup%REC	RPD
PCB AROCLOR (1260)	0.33	0.55	0.39	167	118	34.0

ATLANTIC ENVIRONMENTAL
9912000142

*** Environmental Science Corporation ***
*** METHOD 8151 ***

DATE: 12/13/99

*** LCS/LCSD SUMMARY REPORT ***

COMPOUND	MATRIX	UNITS	TRUE VALUE	LCS	%REC1
2,4-D	SOIL	µg/kg	33.3	9.6	28.8
DALAPON	SOIL	µg/kg	33.3	13.3	39.9
2,4-DB	SOIL	µg/kg	33.3	23.3	70.0
DICAMBA	SOIL	µg/kg	33.3	23.2	69.7
DICHLOROPROP	SOIL	µg/kg	33.3	25.1	75.4
DINOSEB	SOIL	µg/kg	33.3	18.8	56.5
2,4,5-TP	SOIL	µg/kg	33.3	25.8	77.5
2,4,5-T	SOIL	µg/kg	33.3	6.1	18.3

*** METHOD BLANK SUMMARY ***

COMPOUND	MATRIX	UNITS	RESULT
2,4-D	SOIL	µg/kg	<10
DALAPON	SOIL	µg/kg	<10
2,4-DB	SOIL	µg/kg	<10
DICAMBA	SOIL	µg/kg	<10
DICHLOROPROP	SOIL	µg/kg	<10
DINOSEB	SOIL	µg/kg	<10
MCPP	SOIL	µg/kg	<1000
MCPA	SOIL	µg/kg	<1000
2,4,5-TP	SOIL	µg/kg	<10
2,4,5-T	SOIL	µg/kg	<10
PCP	SOIL	µg/kg	<10
PICLORAM	SOIL	µg/kg	<10

*** MS/MSD SUMMARY REPORT ***

COMPOUND	MATRIX	UNITS	TRUE VALUE	MS	MSD	%REC1	%REC2	RPD
2,4-D	SOIL	µg/kg	33.3	8.6	6.5	25.8	19.5	27.8
DALAPON	SOIL	µg/kg	33.3	18.6	16	55.9	48.0	15.0
2,4-DB	SOIL	µg/kg	33.3	18.1	20.1	54.4	60.4	10.5
DICAMBA	SOIL	µg/kg	33.3	25.8	23.6	77.5	70.9	8.9
DICHLOROPROP	SOIL	µg/kg	33.3	31.1	21.9	93.4	65.8	34.7
DINOSEB	SOIL	µg/kg	33.3	30.5	28.4	91.6	85.3	7.1
2,4,5-TP	SOIL	µg/kg	33.3	24.1	21.6	72.4	64.9	10.9
2,4,5-T	SOIL	µg/kg	33.3	2.6	1.9	7.81	5.71	31.1

Environmental Science

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: LCS 12/13 SOIL
Level: LOW
Data Type: MS DATA
SpikeList File: 625.spk
Client SDG: 991214e
Fraction: SV
Client Smp ID: LCS 12/13 SOIL
Operator: MAA
SampleType: LCS
Quant Type: ISTD
Method File: /chem/ern.i/991214e.b/8270.m
Misc Info: LCS 12/13 SOIL

SPIKE	COMPOUND	CONC ADDED ug/KG	CONC RECOVERED ug/KG	% RECOVERED	LIMITS
14	Phenol	3330	1550	46.62	10-112
15	Bis(2-chloroethyl)	3330	1410	42.34	12-158
16	2-Chlorophenol	3330	1410	42.39	23-134
17	1,3-Dichlorobenzen	3330	1480	44.45	10-172
19	1,4-Dichlorobenzen	3330	1480	44.47	20-124
21	1,2-Dichlorobenzen	3330	1500	44.87	32-129
27	N-Nitrosodinpropyl	3330	1660	49.80	10-230
29	Hexachloroethane	3330	1490	44.65	40-113
32	Nitrobenzene	3330	1670	50.09	35-180
34	Isophorone	3330	1760	52.71	21-196
35	2-Nitrophenol	3330	1440	43.34	29-182
36	2,4-Dimethylphenol	3330	1380	41.28	32-119
37	Bis(2-chloroethoxy	3330	1560	46.85	33-184
38	2,4-Dichlorophenol	3330	1460	43.81	39-135
39	1,2,4-Trichloroben	3330	1500	45.09	44-142
42	Naphthalene	3330	1550	46.57	21-133
48	Hexachlorobutadien	3330	1470	44.03	24-116
52	4-Chloro-3-Methylp	3330	1770	53.22	22-147
56	Hexachlorocyclopen	3330	1590	47.78	10-140
57	2,4,6-Trichlorophe	3330	1530	45.83	37-144
61	2-Chloronaphthalen	3330	1660	49.75*	60-180
64	Dimethylphthalate	3330	2420	72.46	10-112
65	Acenaphthylene	3330	1820	54.52	33-145
66	2,6-Dinitrotoluene	3330	2060	61.67	50-158
69	Acenaphthene	3330	1710	51.37	47-145
70	2,4-Dinitrophenol	3330	2390	71.67	10-191
74	2,4-Dinitrotoluene	3330	2730	81.82	39-139
78	Fluorene	3330	2040	61.24	59-121
79	Diethylphthalate	3330	2730	81.85	10-114
80	4-Chlorophenyl-phe	3330	1990	59.82	25-158
82	4-Nitrophenol	3330	2660	79.76	10-132
84	4,6-Dinitro-2-meth	3330	2720	81.63	10-181
86	N-Nitrosodiphenyla	3330	2040	61.34	30-140
91	4-Bromophenyl-phen	3330	2320	69.54	53-127
97	Hexachlorobenzene	3330	2440	73.36	10-152
100	Pentachlorophenol	3330	2620	78.50	14-176

SPIKE COMPOUND	CONC ADDED ug/KG	CONC RECOVERED ug/KG	% RECOVERED	LIMITS
103 Phenanthrene	3330	2540	76.33	54-120
104 Anthracene	3330	2600	78.01	27-133
114 Di-n-Butylphthalat	3330	2850	85.39	10-118
119 Fluoranthene	3330	2820	84.68	26-137
124 Pyrene	3330	2820	84.70	52-115
144 Butylbenzylphthala	3330	2920	87.73	10-150
147 Benzo(a)Anthracene	3330	2850	85.50	33-143
150 3,3'-Dichlorobenzi	3330	2650	79.57	10-262
151 Chrysene	3330	3000	89.93	17-168
153 bis(2-ethylhexyl)P	3330	2880	86.34	10-158
154 Di-n-octylphthalat	3330	2780	83.27	10-148
155 Benzo(b)fluoranthe	3330	2620	78.59	24-159
157 Benzo(k)fluoranthe	3330	3130	94.00	11-162
159 Benzo(a)pyrene	3330	2740	82.22	17-163
162 Indeno(1,2,3-cd)py	3330	2990	89.61	10-171
163 Dibenzo(a,h)anthra	3330	2860	85.66	10-227
164 Benzo(g,h,i)peryle	3330	3080	92.41	10-219

SURROGATE COMPOUND	CONC ADDED ug/KG	CONC RECOVERED ug/KG	% RECOVERED	LIMITS
$ 8 2-Fluorophenol	5000	1930	38.64	25-141
$ 13 Phenol-d5	5000	2370	47.43	24-113
$ 31 Nitrobenzene-d5	3330	1590	47.61	23-120
$ 59 2-Fluorobiphenyl	3330	1600	48.11	30-115
$ 88 2,4,6-Tribromophen	5000	3480	69.70	19-122
$ 128 Terphenyl-d14	3330	2730	81.83	18-137
$ 219 2-Chlorophenol-d4	5000	2010	40.15	10-140
$ 218 1,2-Dichlorobenzen	3330	1460	43.98	10-140

* Recovered out of limits. Not Detected in samples.

ATLANTIC ENV.
9912000142

METHOD BLANK
Matrix: Aqueous

Compound	Units		Result	Date Run
Arsenic	mg/L	<	0.003	12/16/99
Barium	mg/L	<	0.01	12/16/99
Cadmium	mg/L	<	0.005	12/16/99
Chromium	mg/L	<	0.01	12/16/99
Lead	mg/L	<	0.01	12/16/99

ATLANTIC ENV.
9912000142

DUPLICATES
Matrix: Aqueous

Compound	Units		Sample		Duplicate	RPD	Date Run
Arsenic	mg/L	<	0.003	<	0.003	N/C	12/16/99
Barium	mg/L	<	0.01	<	0.01	N/C	12/16/99
Cadmium	mg/L	<	0.005	<	0.005	N/C	12/16/99
Chromium	mg/L		0.02		0.02	N/C	12/16/99
Lead	mg/L	<	0.01	<	0.01	N/C	12/16/99

ATLANTIC ENV.
9912000142

MATRIX SPIKE/MATRIX SPIKE DUPLICATES
Matrix: Aqueous

Compound	Units	Spike Sample Result	Spike Duplicate Result		Sample Result	Spike Added	% Recovery	% Recovery Duplicate	Date Run
Arsenic	mg/L	0.862	0.915	<	0.003	1.00	86.2	91.5	12/16/99
Barium	mg/L	0.971	1.03		0.056	1.00	91.5	97.4	12/16/99
Cadmium	mg/L	0.898	0.952	<	0.01	1.00	89.8	95.2	12/16/99
Chromium	mg/L	0.900	0.954	<	0.01	1.00	90.0	95.4	12/16/99
Lead	mg/L	0.901	0.958	<	0.01	1.00	90.1	95.8	12/16/99

ATLANTIC ENV.
9912000142

QC SUMMARY
Matrix: Soil / Solid

Compound	Units	True Value Lot # 243	Range	Result	Date Run
Arsenic	mg/Kg	53.2	38.3 - 68.2	50.5	12/17/99
Barium	mg/Kg	112	86.0 - 137	112	12/17/99
Cadmium	mg/Kg	151	116 - 185	141	12/17/99
Chromium	mg/Kg	99.4	76.6 - 122	87.9	12/17/99
Lead	mg/Kg	97.8	74.5 - 121	97.3	12/17/99
Selenium	mg/Kg	143	106 - 180	118	12/17/99
Silver	mg/Kg	107	80.0 - 135	104	12/17/99

ATLANTIC ENV.
9912000142

METHOD BLANK
Matrix: Aqueous

Compound	Units		Result	Date Run
Arsenic	mg/L	<	0.003	12/16/99
Barium	mg/L	<	0.01	12/16/99
Cadmium	mg/L	<	0.005	12/16/99
Chromium	mg/L	<	0.01	12/16/99
Lead	mg/L	<	0.01	12/16/99
Selenium	mg/L	<	0.005	12/16/99
Silver	mg/L	<	0.01	12/16/99

ATLANTIC ENV.
9912000142

DUPLICATES
Matrix: Soil

Compound	Units		Sample		Duplicate	RPD	Date Run
Arsenic	mg/Kg		57.5		40.6	34.5	12/16/99
Barium	mg/Kg		75.8		69.6	8.5	12/16/99
Cadmium	mg/Kg		0.797		0.861	7.7	12/16/99
Chromium	mg/Kg		17.3		17.6	1.7	12/16/99
Lead	mg/Kg		99.3		89.5	10.4	12/16/99
Selenium	mg/Kg	<	0.270	<	0.270	N/C	12/16/99
Silver	mg/Kg	<	0.54	<	0.54	N/C	12/16/99

ATLANTIC ENV.
9912000142

MATRIX SPIKE RECOVERY
Matrix: Soil/Solid

Compound	Units	Spike Result		Sample Result	Spike Added	Percent Recovery	Date Run
Arsenic	mg/Kg	79.4		57.5	55.3	39.6	12/16/99
Barium	mg/Kg	119		75.8	55.3	78.1	12/16/99
Cadmium	mg/Kg	46.6		0.797	55.3	82.8	12/16/99
Chromium	mg/Kg	64.5		17.3	55.3	85.4	12/16/99
Lead	mg/Kg	129		99.3	55.3	53.7	12/16/99
Selenium	mg/Kg	40.5	<	0.270	55.3	73.2	12/16/99
Silver	mg/Kg	47.6	<	0.54	55.3	86.1	12/16/99

ATLANTIC ENVIRONMENTAL
9912000142

*** Environmental Science Corporation ***
*** Method Blank ***
Method: 8021 - 601/602

Date: 12/20/99 Matrix: Aqueous/Solid Units: µg/L

Compound Name	Result
Benzene	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 1.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorethane	< 1.0
2-Chloroethylvinylether	< 5.0
Chlorobenzene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
2-Chlorotoluene	< 1.0
4-Chlorotoluene	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0
1,2-Dibromoethane	< 1.0
Dibromomethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 1.0
Dichlorodifluoromethane	2.5
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 1.0
1,1-Dichloroethene	< 1.0
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0
1,1-Dichloropropene	< 1.0
cis 1,3-Dichloropropene	< 1.0
trans 1,3-Dichloropropene	< 1.0

*** Method Blank ***
Method 8021
(cont.)

Date: 12/20/99 Matrix: Aqueous/Solid Units: µg/L

Compound Name	Result
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 1.0
Isopropylbenzene	< 1.0
4-Isopropyltoluene	< 1.0
Methylene Chloride	1.7
Methyl tert-butyl ether	< 1.0
Naphthalene	< 1.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 1.0
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 1.0
1,2,4-Trichlorobenzene	< 1.0
1,1,1-Trichloroethane	< 1.0
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 1.0
Trichlorofluoromethane	< 1.0
1,2,3-Trichloropropane	< 1.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl Chloride	< 1.0
m&p-Xylene	< 1.0
o-Xylene	< 1.0

ATLANTIC ENVIRONMENTAL
9912000142

*** Environmental Science Corporation ***
*** QC Summary Report ***
Method: 8021 - 601/602
Matrix: Aqueous/Solid

Date: 12/18/99 LCS Summary Units: µg/L

Compound Name:	True Value	Result	QC Limits
1,1 - Dichloroethane	10.0	10.3	5.0 - 15.0
Chloroform	10.0	10.5	5.9 - 14.1
1,1,1-Trichloroethane	10.0	11.4	4.9 - 15.1
Trichloroethene	10.0	10.9	5.6 - 14.4
Dibromochloromethane	10.0	9.6	6.8 - 13.2
Bromoform	10.0	9.8	6.4 - 13.6
Benzene	10.0	9.7	6.2 - 13.8
Toluene	10.0	9.8	6.8 - 13.2
1,2-Dichlorobenzene	10.0	10.0	7.5 - 12.5

Matrix Spike / Matrix Spike Duplicate Summary

Compound Name:	True Value	MS	MSD	%REC	%REC	RPD
1,1 - Dichloroethane	10.0	10.6	10.4	106	104	1.9
Chloroform	10.0	10.6	10.4	106	104	1.9
1,1,1-Trichloroethane	10.0	11.5	11.3	115	113	1.8
Trichloroethene	10.0	11.0	10.8	110	108	1.8
Dibromochloromethane	10.0	10.4	10.6	104	106	1.9
Bromoform	10.0	9.7	9.6	97	96	1.0
Benzene	10.0	10.0	9.8	100	98	2.0
Toluene	10.0	10.1	10.0	101	100	1.0
1,2-Dichlorobenzene	10.0	9.8	9.6	98	96	2.1

*** Method Blank ***
Method 8021
(cont.)

Date: 12/18/99 Matrix: Aqueous/Solid Units: µg/L

Compound Name	Result
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 1.0
Isopropylbenzene	< 1.0
4-Isopropyltoluene	< 1.0
Methylene Chloride	1.6
Methyl tert-butyl ether	< 1.0
Naphthalene	< 1.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 1.0
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 1.0
1,2,4-Trichlorobenzene	< 1.0
1,1,1-Trichloroethane	< 1.0
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 1.0
Trichlorofluoromethane	< 1.0
1,2,3-Trichloropropane	< 1.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl Chloride	< 1.0
m&p-Xylene	< 1.0
o-Xylene	< 1.0

ATLANTIC ENVIRONMENTAL
9912000142

*** Environmental Science Corporation ***
*** QC Summary Report ***
Method: 8021 - 601/602
Matrix: Aqueous/Solid

Date: 12/19/99 LCS Summary Units: µg/L

Compound Name:	True Value	Result	QC Limits
1,1 - Dichloroethane	10.0	9.9	5.0 - 15.0
Chloroform	10.0	10.2	5.9 - 14.1
1,1,1-Trichloroethane	10.0	11.0	4.9 - 15.1
Trichloroethene	10.0	10.5	5.6 - 14.4
Dibromochloromethane	10.0	9.2	6.8 - 13.2
Bromoform	10.0	9.3	6.4 - 13.6
Benzene	10.0	9.6	6.2 - 13.8
Toluene	10.0	9.8	6.8 - 13.2
1,2-Dichlorobenzene	10.0	10.0	7.5 - 12.5

Matrix Spike / Matrix Spike Duplicate Summary

Compound Name:	True Value	MS	MSD	%REC	%REC	RPD
1,1 - Dichloroethane	10.0	10.5	10.6	105	106	0.9
Chloroform	10.0	10.4	10.3	104	103	1.0
1,1,1-Trichloroethane	10.0	11.1	11.0	111	110	0.9
Trichloroethene	10.0	10.5	10.5	105	105	0.0
Dibromochloromethane	10.0	9.9	10.1	99	101	2.0
Bromoform	10.0	8.7	9.3	87	93	6.7
Benzene	10.0	9.5	9.6	95	96	1.0
Toluene	10.0	9.6	9.6	96	96	0.0
1,2-Dichlorobenzene	10.0	8.8	9.1	88	91	3.4

ATLANTIC ENV.
9912000142

MATRIX SPIKE DUPLICATE RECOVERY
Matrix: Soil/Solid

Compound	Units	Spike Result		Sample Result	Spike Added	Percent Recovery	Date Run
Arsenic	mg/Kg	79.4		57.5	57.3	38.2	12/17/99
Barium	mg/Kg	119		75.8	57.3	75.4	12/17/99
Cadmium	mg/Kg	46.6		0.797	57.3	79.9	12/17/99
Chromium	mg/Kg	65.5		17.3	57.3	84.1	12/17/99
Lead	mg/Kg	129		99.3	57.3	51.8	12/17/99
Selenium	mg/Kg	40.5	<	0.270	57.3	70.7	12/17/99
Silver	mg/Kg	47.6	<	0.54	57.3	83.1	12/17/99

ATLANTIC ENVIRONMENTAL
9912000142

*** Environmental Science Corporation ***
*** QC Summary Report ***
Method: 8021 - 601/602
Matrix: Aqueous/Solid

Date: 12/20/99 LCS Summary Units: µg/L

Compound Name:	True Value	Result	QC Limits
1,1 - Dichloroethane	10.0	9.7	5.0 - 15.0
Chloroform	10.0	10.1	5.9 - 14.1
1,1,1-Trichloroethane	10.0	10.8	4.9 - 15.1
Trichloroethene	10.0	10.3	5.6 - 14.4
Dibromochloromethane	10.0	9.1	6.8 - 13.2
Bromoform	10.0	9.2	6.4 - 13.6
Benzene	10.0	9.5	6.2 - 13.8
Toluene	10.0	9.7	6.8 - 13.2
1,2-Dichlorobenzene	10.0	9.9	7.5 - 12.5

Matrix Spike / Matrix Spike Duplicate Summary

Compound Name:	True Value	MS	MSD	%REC	%REC	RPD
1,1 - Dichloroethane	10.0	10.5	10.6	105	106	0.9
Chloroform	10.0	10.4	10.3	104	103	1.0
1,1,1-Trichloroethane	10.0	11.1	11.0	111	110	0.9
Trichloroethene	10.0	10.5	10.5	105	105	0.0
Dibromochloromethane	10.0	9.9	10.1	99	101	2.0
Bromoform	10.0	8.7	9.3	87	93	6.7
Benzene	10.0	9.5	9.6	95	96	1.0
Toluene	10.0	9.6	9.6	96	96	0.0
1,2-Dichlorobenzene	10.0	8.8	9.1	88	91	3.4

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB 12/13 SOIL

Lab Name: ENVIRONMENTAL SCIENCE Contract:

Lab Code: Case No.: SAS No.: SDG No.: 991214E

Matrix: (soil/water) SOIL Lab Sample ID: MB 12/13 SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0301003

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/14/99

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-53-3	Aniline	333	U
108-95-2	Phenol	333	U
111-44-4	Bis(2-chloroethyl)ether	167	U
95-57-8	2-Chlorophenol	333	U
541-73-1	1,3-Dichlorobenzene	167	U
106-46-7	1,4-Dichlorobenzene	167	U
62-75-9	N-Nitrosodimethylamine	333	U
100-51-6	Benzyl Alcohol	167	U
95-50-1	1,2-Dichlorobenzene	167	U
95-48-7	2-Methylphenol	333	U
39638-32-9	bis(2-Chloroisopropyl)ether	167	U
621-64-7	N-Nitrosodinpropylamine	167	U
106-44-5	4-Methylphenol	333	U
67-72-1	Hexachloroethane	167	U
98-95-3	Nitrobenzene	167	U
78-59-1	Isophorone	167	U
88-75-5	2-Nitrophenol	333	U
105-67-9	2,4-Dimethylphenol	333	U
111-91-1	Bis(2-chloroethoxy)methane	167	U
65-85-0	Benzoic Acid	333	U
120-83-2	2,4-Dichlorophenol	333	U
120-82-1	1,2,4-Trichlorobenzene	167	U
91-20-3	Naphthalene	167	U
106-47-8	4-Chloroaniline	333	U
87-68-3	Hexachlorobutadiene	167	U
59-50-7	4-Chloro-3-Methylphenol	333	U
91-57-6	2-Methylnaphthalene	167	U
77-47-4	Hexachlorocyclopentadiene	167	U
88-06-2	2,4,6-Trichlorophenol	333	U
95-95-4	2,4,5-Trichlorophenol	333	U
91-58-7	2-Chloronaphthalene	167	U
88-74-4	2-Nitroaniline	167	U
208-96-8	Acenaphthylene	167	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB 12/13 SOIL

Lab Name: ENVIRONMENTAL SCIENCE Contract:

Lab Code: Case No.: SAS No.: SDG No.: 991214E

Matrix: (soil/water) SOIL Lab Sample ID: MB 12/13 SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0301003

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/14/99

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	167	U
99-09-2	3-Nitroaniline	167	U
83-32-9	Acenaphthene	167	U
51-28-5	2,4-Dinitrophenol	333	U
132-64-9	Dibenzofuran	167	U
100-02-7	4-Nitrophenol	167	U
121-14-2	2,4-Dinitrotoluene	167	U
86-73-7	Fluorene	167	U
131-11-3	Dimethylphthalate	167	U
84-66-2	Diethylphthalate	167	U
7005-72-3	4-Chlorophenyl-phenylether	167	U
100-01-6	4-Nitroaniline	167	U
534-52-1	4,6-Dinitro-2-methylphenol	167	U
86-30-6	N-Nitrosodiphenylamine (1)	333	U
101-55-3	4-Bromophenyl-phenylether	167	U
118-74-1	Hexachlorobenzene	167	U
87-86-5	Pentachlorophenol	333	U
85-01-8	Phenanthrene	167	U
120-12-7	Anthracene	167	U
84-74-2	Di-n-Butylphthalate	167	U
206-44-0	Fluoranthene	167	U
92-87-5	Benzidine	1000	U
129-00-0	Pyrene	167	U
85-68-7	Butylbenzylphthalate	167	U
56-55-3	Benzo(a)Anthracene	167	U
91-94-1	3,3'-Dichlorobenzidine	333	U
218-01-9	Chrysene	167	U
117-81-7	bis(2-ethylhexyl)Phthalate	167	U
117-84-0	Di-n-octylphthalate	167	U
205-99-2	Benzo(b)fluoranthene	167	U
207-08-9	Benzo(k)fluoranthene	167	U
50-32-8	Benzo(a)pyrene	167	U
193-39-5	Indeno(1,2,3-cd)pyrene	167	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB 12/13 SOIL

Lab Name: ENVIRONMENTAL SCIENCE Contract:

Lab Code: Case No.: SAS No.: SDG No.: 991214E

Matrix: (soil/water) SOIL Lab Sample ID: MB 12/13 SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0301003

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/14/99

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3	Dibenzo(a,h)anthracene	167	U
88-73-3	1-Chloro-2-nitrobenzene	333	U
191-24-2	Benzo(g,h,i)perylene	167	U
	DCNA	167	U
	Dichlone	167	U
110-86-1	Pyridine	333	U
119-93-7	3,3'-Dimethylbenzidine	333	U
98-86-2	Acetophenone	167	U
	3-Methylphenol	333	U
	Carbazole	167	U
	Azobenzene	167	U
91-51-2	2-Chloroaniline	333	U
	Benzaldehyde	167	U
	Caprolactum	167	U
	Biphenyl	167	U
	Atrazine	167	U

*** Environmental Science Corporation ***

Matrix Spike Lab Sample No.: 9912.130.81747

COMPOUND	SPIKE ADDED (ug/KG)	SAMPLE CONCENTRATION (ug/KG)	MS CONCENTRATION (ug/KG)	MS % REC #	QC. LIMITS REC.
Phenol	3840	18.5	2540	66	26- 90
2-Chlorophenol	3840	0.000	2360	61	25-102
1,4-Dichlorobenzene	3840	0.000	2440	64	28-104
N-Nitrosodinpropylamine	3840	0.000	2840	74	40-126
1,2,4-Trichlorobenzene	3840	0.000	2560	67	38-107
4-Chloro-3-Methylphenol	3840	0.000	3110	81	26-103
Acenaphthene	3840	0.000	3110	81	31-137
4-Nitrophenol	3840	0.000	3590	93	11-114
2,4-Dinitrotoluene	3840	0.000	3630	94*	28- 89
Pentachlorophenol	3840	0.000	3470	90	17-109
Pyrene	3840	0.000	3680	96	35-142

COMPOUND	SPIKE ADDED (ug/KG)	MSD CONCENTRATION (ug/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3840	2210	57	15	50	26- 90
2-Chlorophenol	3840	2010	52	16	50	25-102
1,4-Dichlorobenzene	3840	2070	54	17	50	28-104
N-Nitrosodinpropylamine	3840	2400	62	18	50	40-126
1,2,4-Trichlorobenzene	3840	2110	55	20	50	38-107
4-Chloro-3-Methylphenol	3840	2920	76	6	50	26-103
Acenaphthene	3840	2800	73	10	50	31-137
4-Nitrophenol	3840	3540	92	1	50	11-114
2,4-Dinitrotoluene	3840	3610	94*	0	50	28- 89
Pentachlorophenol	3840	3420	89	1	50	17-109
Pyrene	3840	3730	97	1	50	35-142

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 2 out of 22 outside limits

COMMENTS:
BATCH: 991214E

Environmental Science

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: LCS 12/16 SOIL
Level: LOW
Data Type: MS DATA
SpikeList File: 625.spk
Method File: /chem/ern.i/991217e.b/8270.m
Misc Info: LCS 12/16 SOIL

Client SDG: 991217e
Fraction: SV
Client Smp ID: LCS 12/16 SOIL
Operator: MAA
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/KG	CONC RECOVERED ug/KG	% RECOVERED	LIMITS
14	Phenol	3330	1870	56.20	10-112
15	Bis(2-chloroethyl)	3330	1720	51.49	12-158
16	2-Chlorophenol	3330	1690	50.75	23-134
17	1,3-Dichlorobenzen	3330	1740	52.32	10-172
19	1,4-Dichlorobenzen	3330	1740	52.24	20-124
21	1,2-Dichlorobenzen	3330	1770	53.10	32-129
27	N-Nitrosodinpropyl	3330	2180	65.33	10-230
29	Hexachloroethane	3330	1790	53.84	40-113
32	Nitrobenzene	3330	2010	60.34	35-180
34	Isophorone	3330	2330	69.94	21-196
35	2-Nitrophenol	3330	1880	56.45	29-182
36	2,4-Dimethylphenol	3330	1790	53.74	32-119
37	Bis(2-chloroethoxy	3330	2080	62.56	33-184
38	2,4-Dichlorophenol	3330	1910	57.20	39-135
39	1,2,4-Trichloroben	3330	1810	54.29	44-142
42	Naphthalene	3330	1880	56.40	21-133
48	Hexachlorobutadien	3330	1840	55.10	24-116
52	4-Chloro-3-Methylp	3330	2360	70.68	22-147
56	Hexachlorocyclopen	3330	2150	64.42	10-140
57	2,4,6-Trichlorophe	3330	2120	63.73	37-144
61	2-Chloronaphthalen	3330	2140	64.24	60-180
64	Dimethylphthalate	3330	2860	85.94	10-112
65	Acenaphthylene	3330	2360	70.95	33-145
66	2,6-Dinitrotoluene	3330	2510	75.42	50-158
69	Acenaphthene	3330	2310	69.36	47-145
70	2,4-Dinitrophenol	3330	2600	78.14	10-191
74	2,4-Dinitrotoluene	3330	2840	85.09	39-139
78	Fluorene	3330	2490	74.77	59-121
79	Diethylphthalate	3330	2920	87.67	10-114
80	4-Chlorophenyl-phe	3330	2520	75.51	25-158
82	4-Nitrophenol	3330	2730	81.92	10-132
84	4,6-Dinitro-2-meth	3330	2760	82.97	10-181
86	N-Nitrosodiphenyla	3330	2270	67.99	30-140
91	4-Bromophenyl-phen	3330	2660	79.96	53-127
97	Hexachlorobenzene	3330	2660	79.89	10-152
100	Pentachlorophenol	3330	2750	82.57	14-176

SPIKE COMPOUND	CONC ADDED ug/KG	CONC RECOVERED ug/KG	% RECOVERED	LIMITS
103 Phenanthrene	3330	2700	80.96	54-120
104 Anthracene	3330	2700	81.01	27-133
114 Di-n-Butylphthalat	3330	3000	89.91	10-118
119 Fluoranthene	3330	2840	85.36	26-137
124 Pyrene	3330	2840	85.05	52-115
125 Benzidine	3330	0.000	*	10-200
144 Butylbenzylphthala	3330	2990	89.60	10-150
147 Benzo(a)Anthracene	3330	2840	85.15	33-143
150 3,3'-Dichlorobenzi	3330	2630	78.98	10-262
151 Chrysene	3330	2910	87.27	17-168
153 bis(2-ethylhexyl)P	3330	2900	87.12	10-158
154 Di-n-octylphthalat	3330	2750	82.48	10-148
155 Benzo(b)fluoranthe	3330	2660	79.87	24-159
157 Benzo(k)fluoranthe	3330	2980	89.49	11-162
159 Benzo(a)pyrene	3330	2810	84.40	17-163
162 Indeno(1,2,3-cd)py	3330	3030	91.00	10-171
163 Dibenzo(a,h)anthra	3330	2860	85.96	10-227
164 Benzo(g,h,i)peryle	3330	2980	89.51	10-219

SURROGATE COMPOUND	CONC ADDED ug/KG	CONC RECOVERED ug/KG	% RECOVERED	LIMITS
$ 8 2-Fluorophenol	5000	2320	46.33	25-141
$ 13 Phenol-d5	5000	2860	57.14	24-113
$ 31 Nitrobenzene-d5	3330	2000	59.94	23-120
$ 59 2-Fluorobiphenyl	3330	2070	62.08	30-115
$ 88 2,4,6-Tribromophen	5000	4000	80.09	19-122
$ 128 Terphenyl-d14	3330	2840	85.38	18-137
$ 219 2-Chlorophenol-d4	5000	2340	46.76	10-140
$ 218 1,2-Dichlorobenzen	3330	1460	43.98	10-140

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB 12/16 SOIL

Lab Name: ENVIRONMENTAL SCIENCE Contract:

Lab Code: Case No.: SAS No.: SDG No.: 991217E

Matrix: (soil/water) SOIL Lab Sample ID: MB 12/16 SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0301003

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/17/99

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-53-3	Aniline	333	U
108-95-2	Phenol	333	U
111-44-4	Bis(2-chloroethyl)ether	167	U
95-57-8	2-Chlorophenol	333	U
541-73-1	1,3-Dichlorobenzene	167	U
106-46-7	1,4-Dichlorobenzene	167	U
62-75-9	N-Nitrosodimethylamine	333	U
100-51-6	Benzyl Alcohol	167	U
95-50-1	1,2-Dichlorobenzene	167	U
95-48-7	2-Methylphenol	333	U
39638-32-9	bis(2-Chloroisopropyl)ether	167	U
621-64-7	N-Nitrosodinpropylamine	167	U
106-44-5	4-Methylphenol	333	U
67-72-1	Hexachloroethane	167	U
98-95-3	Nitrobenzene	167	U
78-59-1	Isophorone	167	U
88-75-5	2-Nitrophenol	333	U
105-67-9	2,4-Dimethylphenol	333	U
111-91-1	Bis(2-chloroethoxy)methane	167	U
65-85-0	Benzoic Acid	333	U
120-83-2	2,4-Dichlorophenol	333	U
120-82-1	1,2,4-Trichlorobenzene	167	U
91-20-3	Naphthalene	167	U
106-47-8	4-Chloroaniline	333	U
87-68-3	Hexachlorobutadiene	167	U
59-50-7	4-Chloro-3-Methylphenol	333	U
91-57-6	2-Methylnaphthalene	167	U
77-47-4	Hexachlorocyclopentadiene	167	U
88-06-2	2,4,6-Trichlorophenol	333	U
95-95-4	2,4,5-Trichlorophenol	333	U
91-58-7	2-Chloronaphthalene	167	U
88-74-4	2-Nitroaniline	167	U
208-96-8	Acenaphthylene	167	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB 12/16 SOIL

Lab Name: ENVIRONMENTAL SCIENCE Contract:

Lab Code: Case No.: SAS No.: SDG No.: 991217E

Matrix: (soil/water) SOIL Lab Sample ID: MB 12/16 SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0301003

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/17/99

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	167	U
99-09-2	3-Nitroaniline	167	U
83-32-9	Acenaphthene	167	U
51-28-5	2,4-Dinitrophenol	333	U
132-64-9	Dibenzofuran	167	U
100-02-7	4-Nitrophenol	167	U
121-14-2	2,4-Dinitrotoluene	167	U
86-73-7	Fluorene	167	U
131-11-3	Dimethylphthalate	167	U
84-66-2	Diethylphthalate	167	U
7005-72-3	4-Chlorophenyl-phenylether	167	U
100-01-6	4-Nitroaniline	167	U
534-52-1	4,6-Dinitro-2-methylphenol	167	U
86-30-6	N-Nitrosodiphenylamine (1)	333	U
101-55-3	4-Bromophenyl-phenylether	167	U
118-74-1	Hexachlorobenzene	167	U
87-86-5	Pentachlorophenol	333	U
85-01-8	Phenanthrene	167	U
120-12-7	Anthracene	167	U
84-74-2	Di-n-Butylphthalate	167	U
206-44-0	Fluoranthene	167	U
92-87-5	Benzidine	1000	U
129-00-0	Pyrene	167	U
85-68-7	Butylbenzylphthalate	167	U
56-55-3	Benzo(a)Anthracene	167	U
91-94-1	3,3'-Dichlorobenzidine	333	U
218-01-9	Chrysene	167	U
117-81-7	bis(2-ethylhexyl)Phthalate	167	U
117-84-0	Di-n-octylphthalate	167	U
205-99-2	Benzo(b)fluoranthene	167	U
207-08-9	Benzo(k)fluoranthene	167	U
50-32-8	Benzo(a)pyrene	167	U
193-39-5	Indeno(1,2,3-cd)pyrene	167	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB 12/16 SOIL

Lab Name: ENVIRONMENTAL SCIENCE Contract:

Lab Code: Case No.: SAS No.: SDG No.: 991217E

Matrix: (soil/water) SOIL Lab Sample ID: MB 12/16 SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0301003

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/17/99

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3	Dibenzo(a,h)anthracene	167	U
88-73-3	1-Chloro-2-nitrobenzene	333	U
191-24-2	Benzo(g,h,i)perylene	167	U
	DCNA	167	U
	Dichlone	167	U
110-86-1	Pyridine	333	U
119-93-7	3,3'-Dimethylbenzidine	333	U
98-86-2	Acetophenone	167	U
	3-Methylphenol	333	U
	Carbazole	167	U
	Azobenzene	167	U
91-51-2	2-Chloroaniline	333	U
	Benzaldehyde	167	U
	Caprolactum	167	U
	Biphenyl	167	U
	Atrazine	167	U

ENVIRONMENTAL SCIENCE CORPORATION
Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

December 22, 1999

DEC 2 8 1999

Mr. Lynn Willey
Atlantic Environmental
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415

RE: ESC # 9912000141 **99459 Guilford/Madison/Clinton RR Stations**

Dear Mr. Willey:

Enclosed please find the results of analysis for 10 samples received at Environmental Science Corporation on December 9, 1999. The analyses associated with these samples include:

418.1	TPH - IR
8021B	Aromatic and Halogenated Volatiles
8081A	Pesticides
8082	PCBs
8151A	Chlorinated Herbicides
8270C	Semivolatile Organics - TCL
RCRA (8)	Metals - Aqueous
RCRA (8)	Metals - Soil
SM2540B	Total Solids
SPLP Method 1312 - RCRA 8 Metals (S)	

Should you have any questions regarding the enclosed material, or require additional information, please contact Client Services at (860) 632-0600.

Sincerely,

Kyle F. Gross
Laboratory Director

John M. Dzialo
Registrar

ENVIRONMENTAL SCIENCE CORPORATION
Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Project Narrative
ESC# 9912000141

The following samples have been reviewed for accuracy and completeness.
Any comments associated with your sample results are outlined below.

The 8021 method blanks contained 1.4, 1.6 & 1.8 µg/L of methylene chloride & 2,4 µg/L of dichlorodifluoromethane. For the continuing calibration 1,1-DCE was 15% low, dichlorodifluoromethane was 1% low.

FB-12/8/99

TB-12/8/99

GW-1

GW-5

GP-4 (0-4)

For the 8021 analysis, the sample was analyzed at a 1:5x dilution due to matrix interference with the surrogate recovery.

GP-3 (0-4)

GP-1 (0-4)

GP-1 (4-8)

GP-12/8/99B

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Project Narrative
ESC# 9912000141

The following samples have been reviewed for accuracy and completeness.
Any comments associated with your sample results are outlined below.

The 8021 method blanks contained 1.4, 1.6 & 1.8 µg/L of methylene chloride & 2,4 µg/L of dichlorodifluoromethane. For the continuing calibration 1,1-DCE was 15% low, dichlorodifluoromethane was 1% low.

GP-2 (0-4)

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Lab Report Number: **9912000141**

Client: **Atlantic Environmental**
Mr. Lynn Willey

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Sample Prep Information

Prep	Client Sample ID	ESC Sample ID	Date Sampled	Matrix	Date/Time Prepped	Analyst	Hold Time
Herbicides (A)	FB-12/8/99	81798	12/08/99	Aqueous	12/14/99 09:30	BR	7 DAY
Herbicides (S)	GP-4 (0-4)	81802	12/08/99	Soil	12/10/99 11:00	BR	14 DAY
	GP-3 (0-4)	81803	12/08/99	Soil	12/10/99 11:00	BR	14 DAY
Pesticides/PCB (A)	FB-12/8/99	81798	12/08/99	Aqueous	12/15/99 11:00	JS	7 DAY
Pesticides/PCB (S)	GP-4 (0-4)	81802	12/08/99	Soil	12/15/99 10:00	BR	14 DAY
	GP-3 (0-4)	81803	12/08/99	Soil	12/15/99 10:00	BR	14 DAY
Semivolatile (A)	FB-12/8/99	81798	12/08/99	Aqueous	12/14/99 14:00	BR	7 DAY
	GW-1	81800	12/08/99	Aqueous	12/14/99 14:00	BR	7 DAY
	GW-5	81801	12/08/99	Aqueous	12/14/99 14:00	BR	7 DAY
Semivolatile (S)	GP-4 (0-4)	81802	12/08/99	Soil	12/13/99 13:30	BR/	14 DAY
	GP-3 (0-4)	81803	12/08/99	Soil	12/13/99 13:30	BR/	14 DAY
	GP-1 (0-4)	81804	12/08/99	Soil	12/13/99 13:30	BR/	14 DAY
	GP-12/8/99B	81806	12/08/99	Soil	12/13/99 13:30	BR/	14 DAY
	GP-2 (0-4)	81807	12/08/99	Soil	12/13/99 13:30	BR/	14 DAY

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Lab Report Number: **9912000141**

Client: **Atlantic Environmental**
Mr. Lynn Willey

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	FB-12/8/99						TB-12/8/99
ESC Sample ID:	81798						81799
Location:	Guil/Mad/Clint						Guil/Mad/Clint
Matrix:	Aqueous						Aqueous
Date Sampled:	12/08/99						12/08/99
** TEST **							
Barium	< 0.01	mg/L	12/20/99	11:44	LZS		N/A
Cadmium	< 0.005	mg/L	12/20/99	11:44	LZS		N/A
Chromium	< 0.01	mg/L	12/20/99	11:44	LZS		N/A
Lead	< 0.01	mg/L	12/20/99	11:44	LZS		N/A
Mercury	< 0.001	mg/L	12/15/99	15:15	JT		N/A
Silver	< 0.01	mg/L	12/20/99	11:53	LZS		N/A
Total Petroleum Hydrocarbons	< 0.5	mg/L	12/16/99	20:00	JS		N/A
Arsenic	< 0.003	mg/L	12/20/99	11:44	LZS		N/A
Selenium	< 0.005	mg/L	12/20/99	11:44	LZS		N/A

<- Below Practical Quantitation Limit
NA - Not Analyzed

Soils analyzed on dry weight basis.

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Lab Report Number: 9912000141

Purchase Order #: N/A

Date Received: 12/09/99

Contract Number: N/A

Client Sample ID:	GW-1					GW-5					
ESC Sample ID:	81800					81801					
Location:	Guil/Mad/Clint					Guil/Mad/Clint					
Matrix:	Aqueous					Aqueous					
Date Sampled:	12/08/99					12/08/99					
** TEST **											
Barium	0.01	mg/L	12/20/99	11:44	LZS	< 0.01	mg/L	12/20/99	11:44	LZS
Cadmium	< 0.005	mg/L	12/20/99	11:44	LZS	< 0.005	mg/L	12/20/99	11:44	LZS
Chromium	< 0.01	mg/L	12/20/99	11:44	LZS	< 0.01	mg/L	12/20/99	11:44	LZS
Lead	< 0.01	mg/L	12/20/99	11:44	LZS	< 0.01	mg/L	12/20/99	11:44	LZS
Mercury	< 0.001	mg/L	12/15/99	15:15	JT	< 0.001	mg/L	12/15/99	15:15	JT
Silver	< 0.01	mg/L	12/20/99	11:53	LZS	< 0.01	mg/L	12/20/99	11:53	LZS
Arsenic	< 0.003	mg/L	12/20/99	11:44	LZS	< 0.003	mg/L	12/20/99	11:44	LZS
Selenium	< 0.005	mg/L	12/20/99	11:44	LZS	< 0.005	mg/L	12/20/99	11:44	LZS

<- Below Practical Quantitation Limit
NA - Not Analyzed

Low MDLS- GA + SWPC criteria

Soils analyzed on dry weight basis.

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

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Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Lab Report Number: 9912000141

Purchase Order #: N/A

Date Received: 12/09/99

Contract Number: N/A

Client Sample ID:	GP-4 (0-4)					GP-3 (0-4)					
ESC Sample ID:	81802					81803					
Location:	Guil/Mad/Clint					Guil/Mad/Clint					
Matrix:	Soil					Soil					
Date Sampled:	12/08/99					12/08/99					
** TEST **											
Total Solids	86.4	%	12/13/99	11:20	JS	93.2	%	12/13/99	11:20	JS	
Silver	< 0.54	mg/Kg	12/16/99	10:37	ML	< 0.53	mg/Kg	12/16/99	10:37	ML	
Lead	99.3	mg/Kg	12/16/99	10:37	ML	84.6	mg/Kg	12/16/99	10:37	ML	
Mercury	< 0.24	mg/Kg	12/15/99	15:15	JT	< 0.22	mg/Kg	12/15/99	15:15	JT	
Barium	75.8	mg/Kg	12/16/99	10:37	ML	82.2	mg/Kg	12/16/99	10:37	ML	
Cadmium	0.797	mg/Kg	12/16/99	10:37	ML	0.511	mg/Kg	12/16/99	10:37	ML	
Chromium	17.3	mg/Kg	12/16/99	10:37	ML	9.4	mg/Kg	12/16/99	10:37	ML	
Selenium	< 0.270	mg/Kg	12/16/99	10:37	ML	< 0.264	mg/Kg	12/16/99	10:37	ML	
Total Petroleum Hydrocarbons	38	mg/Kg	12/19/99	14:00	JS	< 5.0	mg/Kg	12/19/99	14:00	JS	
Barium - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	0.06	mg/L	12/16/99	10:23	LZS	
Cadmium - SPLP	< 0.005	mg/L	12/16/99	10:23	LZS	< 0.005	mg/L	12/16/99	10:23	LZS	
Chromium - SPLP	0.02	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS	
Lead - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS	
Silver - SPLP	< 0.01	mg/L	12/17/99	17:35	KFG	< 0.01	mg/L	12/17/99	17:35	KFG	
Mercury - SPLP	< 0.001	mg/L	12/20/99	20:00	JT	< 0.001	mg/L	12/20/99	20:00	JT	
Arsenic	57.5	mg/Kg	12/16/99	10:37	ML	4.51	mg/Kg	12/16/99	10:37	ML	
Arsenic - SPLP	< 0.003	mg/L	12/16/99	10:23	LZS	< 0.003	mg/L	12/16/99	10:23	LZS	
Selenium - SPLP	< 0.005	mg/L	12/17/99	17:35	KFG	< 0.005	mg/L	12/17/99	17:35	KFG	

<- Below Practical Quantitation Limit
NA - Not Analyzed

Soils analyzed on dry weight basis.

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

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Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Project Name: **Guilford/Madison/Clinton RR Stations**

Project Number: **99459**

Lab Report Number: **9912000141**

Purchase Order #: **N/A**

Date Received: **12/09/99**

Contract Number: **N/A**

Client Sample ID:	GP-1 (0-4)					GP-1 (4-8)					
ESC Sample ID:	81804					81805					
Location:	Guil/Mad/Clint					Guil/Mad/Clint					
Matrix:	Soil					Soil					
Date Sampled:	12/08/99					12/08/99					
*** TEST **											
Total Solids	89.5	%	12/13/99	11:20	JS	77.8	%	12/13/99	11:20	JS	
Silver	< 0.55	mg/Kg	12/16/99	10:37	ML	N/A					
Lead	75.0	mg/Kg	12/16/99	10:37	ML	N/A					
Mercury	< 0.23	mg/Kg	12/15/99	15:15	JT	N/A					
Barium	37.4	mg/Kg	12/16/99	10:37	ML	N/A					
Cadmium	0.593	mg/Kg	12/16/99	10:37	ML	N/A					
Chromium	13.2	mg/Kg	12/16/99	10:37	ML	N/A					
Selenium	< 0.276	mg/Kg	12/16/99	10:37	ML	N/A					
Total Petroleum Hydrocarbons	< 5.0	mg/Kg	12/19/99	14:00	JS	N/A					
Barium - SPLP	0.05	mg/L	12/16/99	10:23	LZS	N/A					
Cadmium - SPLP	< 0.005	mg/L	12/16/99	10:23	LZS	N/A					
Chromium - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	N/A					
Lead - SPLP	0.03	mg/L	12/16/99	10:23	LZS	N/A					
Silver - SPLP	< 0.01	mg/L	12/20/99	11:53	LZS	N/A					
Mercury - SPLP	< 0.001	mg/L	12/20/99	20:00	JT	N/A					
Arsenic	2.64	mg/Kg	12/16/99	10:37	ML	N/A					
Arsenic - SPLP	< 0.003	mg/L	12/16/99	10:23	LZS	N/A					
Selenium - SPLP	< 0.005	mg/L	12/20/99	11:44	LZS	N/A					

<- Below Practical Quantitation Limit
NA - Not Analyzed

Soils analyzed on dry weight basis.

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Lab Report Number: 9912000141
Purchase Order #: N/A
Date Received: 12/09/99
Contract Number: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

** TEST **

Client Sample ID:	GP-12/8/99B					GP-2 (0-4)				
ESC Sample ID:	81806					81807				
Location:	Guil/Mad/Clint					Guil/Mad/Clint				
Matrix:	Soil					Soil				
Date Sampled:	12/08/99					12/08/99				
Total Solids	90.7	%	12/13/99	11:20	JS	86.9	%	12/13/99	11:20	JS
Silver	< 0.56	mg/Kg	12/16/99	10:37	ML	< 0.57	mg/Kg	12/16/99	10:37	ML
Lead	48.0	mg/Kg	12/16/99	10:37	ML	62.1	mg/Kg	12/16/99	10:37	ML
Mercury	< 0.25	mg/Kg	12/15/99	15:15	JT	< 0.21	mg/Kg	12/15/99	15:15	JT
Barium	37.4	mg/Kg	12/16/99	10:37	ML	57.2	mg/Kg	12/16/99	10:37	ML
Cadmium	0.547	mg/Kg	12/16/99	10:37	ML	0.763	mg/Kg	12/16/99	10:37	ML
Chromium	14.9	mg/Kg	12/16/99	10:37	ML	13.2	mg/Kg	12/16/99	10:37	ML
Selenium	< 0.279	mg/Kg	12/16/99	10:37	ML	< 0.286	mg/Kg	12/16/99	10:37	ML
Total Petroleum Hydrocarbons	< 5.0	mg/Kg	12/19/99	14:00	JS	5	mg/Kg	12/19/99	14:00	JS
Barium - SPLP	0.01	mg/L	12/16/99	10:23	LZS	0.12	mg/L	12/16/99	10:23	LZS
Cadmium - SPLP	< 0.005	mg/L	12/16/99	10:23	LZS	< 0.005	mg/L	12/16/99	10:23	LZS
Chromium - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Lead - SPLP	0.02	mg/L	12/16/99	10:23	LZS	0.02	mg/L	12/16/99	10:23	LZS
Silver - SPLP	< 0.01	mg/L	12/20/99	11:53	LZS	< 0.01	mg/L	12/20/99	11:53	LZS
Mercury - SPLP	< 0.001	mg/L	12/20/99	20:00	JT	< 0.001	mg/L	12/20/99	20:00	JT
Arsenic	2.52	mg/Kg	12/16/99	10:37	ML	29.7	mg/Kg	12/16/99	10:37	ML
Arsenic - SPLP	< 0.003	mg/L	12/16/99	10:23	LZS	< 0.003	mg/L	12/16/99	10:23	LZS
Selenium - SPLP	< 0.005	mg/L	12/20/99	11:44	LZS	< 0.005	mg/L	12/21/99	08:15	KFG

<- Below Practical Quantitation Limit
NA - Not Analyzed

Soils analyzed on dry weight basis.

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

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Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Lab Report Number: 9912000141

Client: Atlantic Environmental
Mr. Lynn Willey

Purchase Order #: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Date Received: 12/09/99

Project Number: 99459

Contract Number: N/A

Client Sample ID:	FB-12/8/99	TB-12/8/99	GW-1	GW-5
ESC Sample ID:	81798	81799	81800	81801
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/L	N/A	N/A	N/A
Date Analyzed :	12/16/99			
Time Analyzed :	12:58			
Analyst:	JVK			
8082 PCBs				
## Dilution Factor ##	1.0	N/A	N/A	N/A
Aroclor-1016	< 0.5	N/A	N/A	N/A
Aroclor-1221	< 0.5	N/A	N/A	N/A
Aroclor-1232	< 0.5	N/A	N/A	N/A
Aroclor-1242	< 0.5	N/A	N/A	N/A
Aroclor-1248	< 0.5	N/A	N/A	N/A
Aroclor-1254	< 0.5	N/A	N/A	N/A
Aroclor-1260	< 0.5	N/A	N/A	N/A
** TCMX **	67%			

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

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Laboratory Director

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FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000141**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-4 (0-4)	GP-3 (0-4)	GP-1 (0-4)	GP-1 (4-8)
ESC Sample ID:	81802	81803	81804	81805
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	mg/Kg	mg/Kg	N/A	N/A
Date Analyzed :	12/16/99	12/16/99		
Time Analyzed :	15:43	16:13		
Analyst:	JVK	JVK		
8082 PCBs				
## Dilution Factor ##	1.0	1.0	N/A	N/A
Aroclor-1016	< 0.10	< 0.10	N/A	N/A
Aroclor-1221	< 0.10	< 0.10	N/A	N/A
Aroclor-1232	< 0.10	< 0.10	N/A	N/A
Aroclor-1242	< 0.10	< 0.10	N/A	N/A
Aroclor-1248	< 0.10	< 0.10	N/A	N/A
Aroclor-1254	< 0.10	< 0.10	N/A	N/A
Aroclor-1260	< 0.10	< 0.10	N/A	N/A
** TCMX **	88%	84%		

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

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Laboratory Director

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Lab Report Number: 9912000141

Client: Atlantic Environmental
Mr. Lynn Willey

Purchase Order #: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Date Received: 12/09/99

Project Number: 99459

Contract Number: N/A

Client Sample ID:	FB-12/8/99	TB-12/8/99	GW-1	GW-5
ESC Sample ID:	81798	81799	81800	81801
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/L	N/A	N/A	N/A

Date Analyzed : 12/20/99
Time Analyzed : 17:31
Analyst: JVK

8151A Chlorinated Herbicides

## Dilution Factor ##	1.0	N/A	N/A	N/A
2,4-D	< 0.5	N/A	N/A	N/A
2,4-DB	< 0.5	N/A	N/A	N/A
2,4,5-T	< 0.5	N/A	N/A	N/A
2,4,5-TP (Silvex)	< 0.5	N/A	N/A	N/A
Dalapon	< 0.5	N/A	N/A	N/A
Dicamba	< 0.5	N/A	N/A	N/A
Dichloroprop	< 0.5	N/A	N/A	N/A
Dinoseb	< 0.5	N/A	N/A	N/A
MCPA	< 50	N/A	N/A	N/A
MCPP	< 50	N/A	N/A	N/A
** DCAA **	46%			

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

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Laboratory Director

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FAX (860) 632-7743

Lab Report Number: 9912000141

Client: Atlantic Environmental
Mr. Lynn Willey

Purchase Order #: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Date Received: 12/09/99

Project Number: 99459

Contract Number: N/A

Client Sample ID:	GP-4 (0-4)	GP-3 (0-4)	GP-1 (0-4)	GP-1 (4-8)
ESC Sample ID:	81802	81803	81804	81805
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	mg/Kg	mg/Kg	N/A	N/A
Date Analyzed :	12/14/99	12/14/99		
Time Analyzed :	13:09	13:40		
Analyst:	JVK	JVK		

8151A Chlorinated Herbicides

## Dilution Factor ##	1.0	1.0	N/A	N/A
2,4-D	< 0.010	< 0.010	N/A	N/A
2,4-DB	< 0.010	< 0.010	N/A	N/A
2,4,5-T	< 0.010	< 0.010	N/A	N/A
2,4,5-TP (Silvex)	< 0.010	< 0.010	N/A	N/A
Dalapon	< 0.010	< 0.010	N/A	N/A
Dicamba	< 0.010	< 0.010	N/A	N/A
Dichloroprop	< 0.010	< 0.010	N/A	N/A
Dinoseb	< 0.010	< 0.010	N/A	N/A
MCPA	< 1.0	< 1.0	N/A	N/A
MCPP	< 1.0	< 1.0	N/A	N/A
** DCAA **	65%	60%		

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

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Laboratory Director

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Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Lab Report Number: 9912000141
Purchase Order #: N/A
Date Received: 12/09/99
Contract Number: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Client Sample ID:	FB-12/8/99	TB-12/8/99	GW-1	GW-5
ESC Sample ID:	81798	81799	81800	81801
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/L	N/A	N/A	N/A

Date Analyzed : 12/20/99
Time Analyzed : 15:23
Analyst: JVK

8081A Pesticides

## Dilution Factor ##	1.0	N/A	N/A	N/A
Aldrin	< 0.5	N/A	N/A	N/A
a-BHC	< 0.10	N/A	N/A	N/A
b-BHC	< 0.10	N/A	N/A	N/A
d-BHC	< 0.10	N/A	N/A	N/A
Lindane	< 0.10	N/A	N/A	N/A
Chlordane	< 1.0	N/A	N/A	N/A
4,4'-DDD	< 1.0	N/A	N/A	N/A
4,4'-DDE	< 1.0	N/A	N/A	N/A
4,4'-DDT	< 1.0	N/A	N/A	N/A
Dieldrin	< 1.0	N/A	N/A	N/A
Endosulfan I	< 1.0	N/A	N/A	N/A
Endosulfan II	< 1.0	N/A	N/A	N/A
Endosulfan sulfate	< 1.0	N/A	N/A	N/A
Endrin	< 0.2	N/A	N/A	N/A
Endrin aldehyde	< 1.0	N/A	N/A	N/A
Heptachlor	< 1.0	N/A	N/A	N/A
Heptachlor epoxide	< 1.0	N/A	N/A	N/A
Methoxychlor	< 5.0	N/A	N/A	N/A
Toxaphene	< 5.0	N/A	N/A	N/A
** TCMX **	64%			

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

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Laboratory Director

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Lab Report Number: **9912000141**

Client: **Atlantic Environmental**
Mr. Lynn Willey

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-4 (0-4)	GP-3 (0-4)	GP-1 (0-4)	GP-1 (4-8)
ESC Sample ID:	81802	81803	81804	81805
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	mg/Kg	mg/Kg	N/A	N/A
Date Analyzed :	12/20/99	12/20/99		
Time Analyzed :	16:22	16:51		
Analyst:	JVK	JVK		

8081A Pesticides

## Dilution Factor ##	1.0	1.0	N/A	N/A
Aldrin	< 0.010	< 0.010	N/A	N/A
a-BHC	< 0.010	< 0.010	N/A	N/A
b-BHC	< 0.010	< 0.010	N/A	N/A
d-BHC	< 0.010	< 0.010	N/A	N/A
Lindane	< 0.010	< 0.010	N/A	N/A
Chlordane	< 0.010	< 0.010	N/A	N/A
4,4'-DDD	< 0.010	< 0.010	N/A	N/A
4,4'-DDE	< 0.010	< 0.010	N/A	N/A
4,4'-DDT	< 0.010	< 0.010	N/A	N/A
Dieldrin	< 0.010	< 0.010	N/A	N/A
Endosulfan I	< 0.010	< 0.010	N/A	N/A
Endosulfan II	< 0.010	< 0.010	N/A	N/A
Endosulfan sulfate	< 0.010	< 0.010	N/A	N/A
Endrin	< 0.010	< 0.010	N/A	N/A
Endrin aldehyde	< 0.010	< 0.010	N/A	N/A
Heptachlor	< 0.010	< 0.010	N/A	N/A
Heptachlor epoxide	< 0.010	< 0.010	N/A	N/A
Methoxychlor	< 0.010	< 0.010	N/A	N/A
Toxaphene	< 0.010	< 0.010	N/A	N/A
** TCMX **	84%	91%		

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

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FAX (860) 632-7743

Lab Report Number: 9912000141

Client: Atlantic Environmental
Mr. Lynn Willey

Purchase Order #: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Date Received: 12/09/99

Project Number: 99459

Contract Number: N/A

Client Sample ID:	FB-12/8/99	TB-12/8/99	GW-1	GW-5
ESC Sample ID:	81798	81799	81800	81801
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed :	12/17/99	12/17/99	12/17/99	12/17/99
Time Analyzed :	10:57	11:56	12:55	13:54
Analyst:	AP	AP	AP	AP

8021B Aromatic and Halogenated Volatiles

## Dilution Factor ##	1	1	1	1
Benzene	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	< 1.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	< 1.0	< 1.0	< 1.0	< 1.0
2-Chloroethyl vinyl ether	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane (EDB)	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

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Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000141**
Purchase Order #: **N/A**
Date Received: **12/09/99**
Contract Number: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Project Number: **99459**

Client Sample ID:	FB-12/8/99	TB-12/8/99	GW-1	GW-5
ESC Sample ID:	81798	81799	81800	81801
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed :	12/17/99	12/17/99	12/17/99	12/17/99
Time Analyzed :	10:57	11:56	12:55	13:54
Analyst:	AP	AP	AP	AP

8021B Aromatic and Halogenated Volatiles

Dichlorodifluoromethane	2.2	2.2	2.3	2.2
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride	< 1.0	1.0	< 1.0	< 1.0
Naphthalene	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0	< 1.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Lab Report Number: 9912000141

Purchase Order #: N/A

Date Received: 12/09/99

Contract Number: N/A

Client Sample ID:	FB-12/8/99	TB-12/8/99	GW-1	GW-5
ESC Sample ID:	81798	81799	81800	81801
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/L	µg/L	µg/L	µg/L
Date Analyzed :	12/17/99	12/17/99	12/17/99	12/17/99
Time Analyzed :	10:57	11:56	12:55	13:54
Analyst:	AP	AP	AP	AP
8021B Aromatic and Halogenated Volatiles				
Trichloroethene	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	< 1.0	< 1.0	< 1.0	< 1.0
m&p-Xylene	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	< 1.0	< 1.0	< 1.0	< 1.0
** 1,4-Dichlorobutane **	109%	110%	113%	112%
** Trifluorotoluene **	96%	98%	95%	95%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

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Laboratory Director

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FAX (860) 632-7743

Lab Report Number: 9912000141

Client: Atlantic Environmental
Mr. Lynn Willey

Purchase Order #: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Date Received: 12/09/99

Project Number: 99459

Contract Number: N/A

Client Sample ID:	GP-4 (0-4)	GP-3 (0-4)	GP-1 (0-4)	GP-1 (4-8)
ESC Sample ID:	81802	81803	81804	81805
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Date Analyzed :	12/19/99	12/18/99	12/18/99	12/19/99
Time Analyzed :	20:46	13:31	14:30	13:55
Analyst:	AP	AP	AP	AP

8021B Aromatic and Halogenated Volatiles

## Dilution Factor ##	5	1	1	1
Benzene	< 5.0	< 1.0	< 1.0	< 1.0
Bromobenzene	< 5.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	< 5.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	< 5.0	< 1.0	< 1.0	< 1.0
Bromoform	< 5.0	< 1.0	< 1.0	< 1.0
Bromomethane	< 5.0	< 1.0	< 1.0	< 1.0
n-Butylbenzene	< 5.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	< 5.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	< 5.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride	< 5.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	< 5.0	< 1.0	< 1.0	< 1.0
Chloroethane	< 5.0	< 1.0	< 1.0	< 1.0
Chloroform	< 5.0	< 1.0	1.2	< 1.0
Chloromethane	< 5.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	< 5.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	< 5.0	< 1.0	< 1.0	< 1.0
2-Chloroethyl vinyl ether	< 25	< 5.0	< 5.0	< 5.0
Dibromochloromethane	< 5.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	< 5.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane (EDB)	< 5.0	< 1.0	< 1.0	< 1.0
Dibromomethane	< 5.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	< 5.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	< 5.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	< 5.0	< 1.0	< 1.0	< 1.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

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Laboratory Director

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FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000141**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-4 (0-4)	GP-3 (0-4)	GP-1 (0-4)	GP-1 (4-8)
ESC Sample ID:	81802	81803	81804	81805
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Date Analyzed :	12/19/99	12/18/99	12/18/99	12/19/99
Time Analyzed :	20:46	13:31	14:30	13:55
Analyst:	AP	AP	AP	AP

8021B Aromatic and Halogenated Volatiles

Dichlorodifluoromethane	23	10	13	3.1
1,1-Dichloroethane	< 5.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	< 5.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 5.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	< 5.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 5.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	< 5.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	< 5.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	< 5.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	< 5.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	< 5.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 5.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	< 5.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	< 5.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	< 5.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	< 5.0	< 1.0	< 1.0	< 1.0
Methylene chloride	34	22	14	3.3
Naphthalene	< 5.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	< 5.0	< 1.0	< 1.0	< 1.0
Styrene	< 5.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	< 5.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 5.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	< 5.0	< 1.0	< 1.0	< 1.0
Toluene	< 5.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	< 5.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	< 5.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	< 5.0	< 1.0	< 1.0	< 1.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

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Client: Atlantic Environmental
Mr. Lynn Willey

Lab Report Number: 9912000141
Purchase Order #: N/A
Date Received: 12/09/99
Contract Number: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Client Sample ID:	GP-4 (0-4)	GP-3 (0-4)	GP-1 (0-4)	GP-1 (4-8)
ESC Sample ID:	81802	81803	81804	81805
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Date Analyzed :	12/19/99	12/18/99	12/18/99	12/19/99
Time Analyzed :	20:46	13:31	14:30	13:55
Analyst:	AP	AP	AP	AP

8021B Aromatic and Halogenated Volatiles

Trichloroethene	< 5.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	< 5.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	< 5.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	< 5.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	< 5.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	< 5.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	< 5.0	< 1.0	< 1.0	< 1.0
o-Xylene	< 5.0	< 1.0	< 1.0	< 1.0
m&p-Xylene	< 5.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	< 5.0	< 1.0	< 1.0	< 1.0
** 1,4-Dichlorobutane **	132%	129%	137%	114%
** Trifluorotoluene **	98%	87%	80%	98%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

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Laboratory Director

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FAX (860) 632-7743

Lab Report Number: **9912000141**

Client: **Atlantic Environmental**
Mr. Lynn Willey

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number:**99459**

Contract Number: **N/A**

Client Sample ID:	**GP-12/8/99B**	**GP-2 (0-4)**
ESC Sample ID:	**81806**	**81807**
Location:	**Guil/Mad/Clint**	**Guil/Mad/Clint**
Matrix:	**Soil**	**Soil**
Date Sampled:	**12/08/99**	**12/08/99**
** TEST ** **Units:**	**µg/Kg**	**N/A**

Date Analyzed :	12/19/99
Time Analyzed :	14:53
Analyst:	AP

8021B Aromatic and Halogenated Volatiles

## Dilution Factor ##		1	
Benzene	<	1.0	N/A
Bromobenzene	<	1.0	N/A
Bromochloromethane	<	1.0	N/A
Bromodichloromethane	<	1.0	N/A
Bromoform	<	1.0	N/A
Bromomethane	<	1.0	N/A
n-Butylbenzene	<	1.0	N/A
sec-Butylbenzene	<	1.0	N/A
tert-Butylbenzene	<	1.0	N/A
Carbon tetrachloride	<	1.0	N/A
Chlorobenzene	<	1.0	N/A
Chloroethane	<	1.0	N/A
Chloroform	<	1.0	N/A
Chloromethane	<	1.0	N/A
2-Chlorotoluene	<	1.0	N/A
4-Chlorotoluene	<	1.0	N/A
2-Chloroethyl vinyl ether	<	5.0	N/A
Dibromochloromethane	<	1.0	N/A
1,2-Dibromo-3-chloropropane	<	1.0	N/A
1,2-Dibromoethane (EDB)	<	1.0	N/A
Dibromomethane	<	1.0	N/A
1,2-Dichlorobenzene	<	1.0	N/A
1,3-Dichlorobenzene	<	1.0	N/A
1,4-Dichlorobenzene	<	1.0	N/A

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

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Great River Center, 362 Industrial Park Road
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FAX (860) 632-7743

Lab Report Number: **9912000141**

Client: **Atlantic Environmental**
Mr. Lynn Willey

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	**GP-12/8/99B**	**GP-2 (0-4)**
ESC Sample ID:	**81806**	**81807**
Location:	**Guil/Mad/Clint**	**Guil/Mad/Clint**
Matrix:	**Soil**	**Soil**
Date Sampled:	**12/08/99**	**12/08/99**
** TEST ** **Units:**	**µg/Kg**	**N/A**

Date Analyzed :	12/19/99
Time Analyzed :	14:53
Analyst:	AP

8021B Aromatic and Halogenated Volatiles

Dichlorodifluoromethane		7.0	N/A
1,1-Dichloroethane	<	1.0	N/A
1,2-Dichloroethane	<	1.0	N/A
1,1-Dichloroethene	<	1.0	N/A
cis-1,2-Dichloroethene	<	1.0	N/A
trans-1,2-Dichloroethene	<	1.0	N/A
1,2-Dichloropropane	<	1.0	N/A
1,3-Dichloropropane	<	1.0	N/A
2,2-Dichloropropane	<	1.0	N/A
1,1-Dichloropropene	<	1.0	N/A
cis-1,3-Dichloropropene	<	1.0	N/A
trans-1,3-Dichloropropene	<	1.0	N/A
Ethylbenzene	<	1.0	N/A
Hexachlorobutadiene	<	1.0	N/A
Isopropylbenzene	<	1.0	N/A
4-Isopropyltoluene	<	1.0	N/A
Methylene chloride		20	N/A
Naphthalene	<	1.0	N/A
n-Propylbenzene	<	1.0	N/A
Styrene		1.8	N/A
1,1,1,2-Tetrachloroethane	<	1.0	N/A
1,1,2,2-Tetrachloroethane	<	1.0	N/A
Tetrachloroethene	<	1.0	N/A
Toluene	<	1.0	N/A
1,2,3-Trichlorobenzene	<	1.0	N/A
1,1,1-Trichloroethane	<	1.0	N/A
1,1,2-Trichloroethane	<	1.0	N/A

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Lab Report Number: 9912000141

Client: Atlantic Environmental
Mr. Lynn Willey

Purchase Order #: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Date Received: 12/09/99

Project Number: 99459

Contract Number: N/A

Client Sample ID:	GP-12/8/99B	GP-2 (0-4)
ESC Sample ID:	81806	81807
Location:	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil
Date Sampled:	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	N/A

Date Analyzed : 12/19/99
Time Analyzed : 14:53
Analyst: AP

8021B Aromatic and Halogenated Volatiles

Trichloroethene	<	1.0	N/A
Trichlorofluoromethane	<	1.0	N/A
1,2,3-Trichloropropane	<	1.0	N/A
1,2,4-Trimethylbenzene	<	1.0	N/A
1,2,4-Trichlorobenzene	<	1.0	N/A
1,3,5-Trimethylbenzene	<	1.0	N/A
Vinyl chloride	<	1.0	N/A
o-Xylene	<	1.0	N/A
m&p-Xylene	<	1.0	N/A
Methyl tert-butyl ether	<	1.0	N/A
** 1,4-Dichlorobutane **		132%	
** Trifluorotoluene **		86%	

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

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Client: Atlantic Environmental
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Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Lab Report Number: 9912000141

Purchase Order #: N/A

Date Received: 12/09/99

Contract Number: N/A

Client Sample ID:	FB-12/8/99	TB-12/8/99	GW-1	GW-5
ESC Sample ID:	81798	81799	81800	81801
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/L	N/A	µg/L	µg/L
Date Analyzed :	12/16/99		12/16/99	12/16/99
Time Analyzed :	17:04		17:52	18:39
Analyst:	MAA		MAA	MAA

8270C Semivolatile Organics - TCL

## Dilution Factor ##	1.0	N/A	1.0	1.0
Acenaphthene	< 5.0	N/A	< 5.0	< 5.0
Acenaphthylene	< 5.0	N/A	< 5.0	< 5.0
Anthracene	< 5.0	N/A	< 5.0	< 5.0
Benzo(a)anthracene	< 5.0	N/A	< 5.0	< 5.0
Benzo(b)fluoranthene	< 5.0	N/A	< 5.0	< 5.0
Benzo(k)fluoranthene	< 5.0	N/A	< 5.0	< 5.0
Benzo(g,h,i)perylene	< 10	N/A	< 10	< 10
Benzo(a)pyrene	< 5.0	N/A	< 5.0	< 5.0
Bis(2-chloroethoxy)methane	< 5.0	N/A	< 5.0	< 5.0
Bis(2-chloroethyl)ether	< 5.0	N/A	< 5.0	< 5.0
2,2'-oxybis(1-Chloropropane)	< 20	N/A	< 20	< 20
Bis(2-ethylhexyl)phthalate	< 5.0	N/A	< 5.0	< 5.0
4-Bromophenyl phenyl ether	< 5.0	N/A	< 5.0	< 5.0
Butyl benzyl phthalate	< 5.0	N/A	< 5.0	< 5.0
Carbazole	< 5.0	N/A	< 5.0	< 5.0
4-Chloroaniline	< 10	N/A	< 10	< 10
2-Chloronaphthalene	< 5.0	N/A	< 5.0	< 5.0
4-Chloro-3-methylphenol	< 10	N/A	< 10	< 10
2-Chlorophenol	< 10	N/A	< 10	< 10
4-Chlorophenyl phenyl ether	< 5.0	N/A	< 5.0	< 5.0
Chrysene	< 5.0	N/A	< 5.0	< 5.0
Dibenz(a,h)anthracene	< 5.0	N/A	< 5.0	< 5.0
Dibenzofuran	< 5.0	N/A	< 5.0	< 5.0
Di-n-butyl phthalate	< 5.0	N/A	< 5.0	< 5.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

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Lab Report Number: **9912000141**

Client: **Atlantic Environmental**
Mr. Lynn Willey

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	FB-12/8/99	TB-12/8/99	GW-1	GW-5
ESC Sample ID:	81798	81799	81800	81801
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/L	N/A	µg/L	µg/L
Date Analyzed :	12/16/99		12/16/99	12/16/99
Time Analyzed :	17:04		17:52	18:39
Analyst:	MAA		MAA	MAA

8270C Semivolatile Organics - TCL

1,3-Dichlorobenzene	< 5.0	N/A	< 5.0	< 5.0
1,4-Dichlorobenzene	< 5.0	N/A	< 5.0	< 5.0
1,2-Dichlorobenzene	< 5.0	N/A	< 5.0	< 5.0
3,3'-Dichlorobenzidine	< 10	N/A	< 10	< 10
2,4-Dichlorophenol	< 10	N/A	< 10	< 10
Diethyl phthalate	< 5.0	N/A	< 5.0	< 5.0
2,4-Dimethylphenol	< 10	N/A	< 10	< 10
Dimethyl phthalate	< 5.0	N/A	< 5.0	< 5.0
4,6-Dinitro-2-methylphenol	< 10	N/A	< 10	< 10
2,4-Dinitrophenol	< 10	N/A	< 10	< 10
2,4-Dinitrotoluene	< 5.0	N/A	< 5.0	< 5.0
2,6-Dinitrotoluene	< 5.0	N/A	< 5.0	< 5.0
Di-n-octyl phthalate	< 10	N/A	< 10	< 10
Fluoranthene	< 5.0	N/A	< 5.0	< 5.0
Fluorene	< 5.0	N/A	< 5.0	< 5.0
Hexachlorobenzene	< 5.0	N/A	< 5.0	< 5.0
Hexachlorobutadiene	< 5.0	N/A	< 5.0	< 5.0
Hexachlorocyclopentadiene	< 5.0	N/A	< 5.0	< 5.0
Hexachloroethane	< 5.0	N/A	< 5.0	< 5.0
Indeno(1,2,3-cd)pyrene	< 5.0	N/A	< 5.0	< 5.0
Isophorone	< 5.0	N/A	< 5.0	< 5.0
2-Methylnaphthalene	< 5.0	N/A	< 5.0	< 5.0
2-Methylphenol (o-cresol)	< 10	N/A	< 10	< 10
4-Methylphenol (p-cresol)	< 10	N/A	< 10	< 10
Naphthalene	< 5.0	N/A	< 5.0	< 5.0
2-Nitroaniline	< 5.0	N/A	< 5.0	< 5.0
3-Nitroaniline	< 5.0	N/A	< 5.0	< 5.0

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Project Name: **Guilford/Madison/Clinton RR Stations**

Project Number: **99459**

Lab Report Number: **9912000141**

Purchase Order #: **N/A**

Date Received: **12/09/99**

Contract Number: **N/A**

Client Sample ID:	FB-12/8/99	TB-12/8/99	GW-1	GW-5
ESC Sample ID:	81798	81799	81800	81801
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Aqueous	Aqueous	Aqueous	Aqueous
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/L	N/A	µg/L	µg/L
Date Analyzed :	12/16/99		12/16/99	12/16/99
Time Analyzed :	17:04		17:52	18:39
Analyst:	MAA		MAA	MAA

8270C Semivolatile Organics - TCL

4-Nitroaniline	< 10	N/A	< 10	< 10
Nitrobenzene	< 5.0	N/A	< 5.0	< 5.0
2-Nitrophenol	< 10	N/A	< 10	< 10
4-Nitrophenol	< 10	N/A	< 10	< 10
N-Nitrosodiphenylamine	< 5.0	N/A	< 5.0	< 5.0
N-Nitrosodi-n-propylamine	< 5.0	N/A	< 5.0	< 5.0
Pentachlorophenol	< 10	N/A	< 10	< 10
Phenanthrene	< 5.0	N/A	< 5.0	< 5.0
Phenol	< 10	N/A	< 10	< 10
Pyrene	< 5.0	N/A	< 5.0	< 5.0
1,2,4-Trichlorobenzene	< 5.0	N/A	< 5.0	< 5.0
2,4,5-Trichlorophenol	< 10	N/A	< 10	< 10
2,4,6-Trichlorophenol	< 10	N/A	< 10	< 10
** 2-Fluorophenol **	23%		29%	22%
** Phenol-d5 **	13%		17%	11%
** Nitrobenzene-d5 **	42%		55%	41%
** 2-Fluorobiphenyl **	47%		62%	45%
** 2,4,6-Tribromophenol **	46%		62%	49%
** Terphenyl-d14 **	82%		68%	84%
** 1,2-Dichlorobenzene-d4 **	44%		44%	44%
** 2-Chlorophenol-d4 **	31%		41%	32%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Project Name: **Guilford/Madison/Clinton RR Stations**

Project Number: **99459**

Lab Report Number: **9912000141**

Purchase Order #: **N/A**

Date Received: **12/09/99**

Contract Number: **N/A**

Client Sample ID:	GP-4 (0-4)	GP-3 (0-4)	GP-1 (0-4)	GP-1 (4-8)
ESC Sample ID:	81802	81803	81804	81805
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	N/A
Date Analyzed :	12/15/99	12/15/99	12/15/99	
Time Analyzed :	14:35	15:23	16:12	
Analyst:	MAA	MAA	MAA	

8270C Semivolatile Organics - TCL

## Dilution Factor ##	10	5.0	1.0	N/A
Acenaphthene	< 1700	< 850	< 170	N/A
Acenaphthylene	< 1700	< 850	< 170	N/A
Anthracene	< 1700	< 850	< 170	N/A
Benzo(a)anthracene	2500	1200	< 170	N/A
Benzo(b)fluoranthene	2800	1300	< 170	N/A
Benzo(k)fluoranthene	3300	1800	200	N/A
Benzo(g,h,i)perylene	< 3300	< 1650	< 330	N/A
Benzo(a)pyrene	< 1700	< 850	< 170	N/A
Bis(2-chloroethoxy)methane	< 1700	< 850	< 170	N/A
Bis(2-chloroethyl)ether	< 1700	< 850	< 170	N/A
2,2'-oxybis(1-Chloropropane)	< 5000	< 2500	< 500	N/A
Bis(2-ethylhexyl)phthalate	< 1700	< 850	< 170	N/A
4-Bromophenyl phenyl ether	< 1700	< 850	< 170	N/A
Butyl benzyl phthalate	< 1700	< 850	< 170	N/A
Carbazole	< 1700	< 850	< 170	N/A
4-Chloroaniline	< 3300	< 1650	< 330	N/A
2-Chloronaphthalene	< 1700	< 850	< 170	N/A
4-Chloro-3-methylphenol	< 3300	< 1650	< 330	N/A
2-Chlorophenol	< 3300	< 1650	< 330	N/A
4-Chlorophenyl phenyl ether	< 1700	< 850	< 170	N/A
Chrysene	3700	1600	200	N/A
Dibenz(a,h)anthracene	< 1700	< 850	< 170	N/A
Dibenzofuran	< 1700	< 850	< 170	N/A
Di-n-butyl phthalate	< 1700	< 850	< 170	N/A

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Lab Report Number: 9912000141

Purchase Order #: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Date Received: 12/09/99

Project Number: 99459

Contract Number: N/A

Client Sample ID:	GP-4 (0-4)	GP-3 (0-4)	GP-1 (0-4)	GP-1 (4-8)
ESC Sample ID:	81802	81803	81804	81805
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	N/A
Date Analyzed :	12/15/99	12/15/99	12/15/99	
Time Analyzed :	14:35	15:23	16:12	
Analyst:	MAA	MAA	MAA	

8270C Semivolatile Organics - TCL

1,3-Dichlorobenzene	< 1700	< 850	< 170	N/A
1,4-Dichlorobenzene	< 1700	< 850	< 170	N/A
1,2-Dichlorobenzene	< 1700	< 850	< 170	N/A
3,3'-Dichlorobenzidine	< 3300	< 1650	< 330	N/A
2,4-Dichlorophenol	< 3300	< 1650	< 330	N/A
Diethyl phthalate	< 1700	< 850	< 170	N/A
2,4-Dimethylphenol	< 3300	< 1650	< 330	N/A
Dimethyl phthalate	< 1700	< 850	< 170	N/A
4,6-Dinitro-2-methylphenol	< 3300	< 1650	< 330	N/A
2,4-Dinitrophenol	< 3300	< 1650	< 330	N/A
2,4-Dinitrotoluene	< 1700	< 850	< 170	N/A
2,6-Dinitrotoluene	< 1700	< 850	< 170	N/A
Di-n-octyl phthalate	< 3300	< 1650	< 330	N/A
Fluoranthene	7100	2100	300	N/A
Fluorene	< 1700	< 850	< 170	N/A
Hexachlorobenzene	< 1700	< 850	< 170	N/A
Hexachlorobutadiene	< 1700	< 850	< 170	N/A
Hexachlorocyclopentadiene	< 1700	< 850	< 170	N/A
Hexachloroethane	< 1700	< 850	< 170	N/A
Indeno(1,2,3-cd)pyrene	< 1700	< 850	< 170	N/A
Isophorone	< 1700	< 850	< 170	N/A
2-Methylnaphthalene	< 1700	< 850	< 170	N/A
2-Methylphenol (o-cresol)	< 3300	< 1650	< 330	N/A
4-Methylphenol (p-cresol)	< 3300	< 1650	< 330	N/A
Naphthalene	< 1700	< 850	< 170	N/A
2-Nitroaniline	< 1700	< 850	< 170	N/A
3-Nitroaniline	< 1700	< 850	< 170	N/A

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000141**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-4 (0-4)	GP-3 (0-4)	GP-1 (0-4)	GP-1 (4-8)
ESC Sample ID:	81802	81803	81804	81805
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg	µg/Kg	N/A
Date Analyzed :	12/15/99	12/15/99	12/15/99	
Time Analyzed :	14:35	15:23	16:12	
Analyst:	MAA	MAA	MAA	

8270C Semivolatile Organics - TCL

4-Nitroaniline	< 3300	< 1650	< 330	N/A
Nitrobenzene	< 1700	< 850	< 170	N/A
2-Nitrophenol	< 3300	< 1650	< 330	N/A
4-Nitrophenol	< 3300	< 1650	< 330	N/A
N-Nitrosodiphenylamine	< 1700	< 850	< 170	N/A
N-Nitrosodi-n-propylamine	< 1700	< 850	< 170	N/A
Pentachlorophenol	< 3300	< 1650	< 330	N/A
Phenanthrene	2700	1200	< 170	N/A
Phenol	< 3300	< 1650	< 330	N/A
Pyrene	6000	2200	310	N/A
1,2,4-Trichlorobenzene	< 1700	< 850	< 170	N/A
2,4,5-Trichlorophenol	< 3300	< 1650	< 330	N/A
2,4,6-Trichlorophenol	< 3300	< 1650	< 330	N/A
** 2-Fluorophenol **	0%D	16%D	29%	
** Phenol-d5 **	19%D	25%	38%	
** Nitrobenzene-d5 **	10%D	24%	37%	
** 2-Fluorobiphenyl **	51%	46%	44%	
** 2,4,6-Tribromophenol **	62%	61%	68%	
** Terphenyl-d14 **	82%	79%	84%	
** 1,2-Dichlorobenzene-d4 **	440%D	220%D	44%	
** 2-Chlorophenol-d4 **	30%	28%	31%	

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Lab Report Number: **9912000141**

Client: **Atlantic Environmental**
Mr. Lynn Willey

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	**GP-12/8/99B**	**GP-2 (0-4)**
ESC Sample ID:	**81806**	**81807**
Location:	**Guil/Mad/Clint**	**Guil/Mad/Clint**
Matrix:	**Soil**	**Soil**
Date Sampled:	**12/08/99**	**12/08/99**
** TEST ** **Units:**	**µg/Kg**	**µg/Kg**
Date Analyzed :	12/15/99	12/15/99
Time Analyzed :	21:03	21:53
Analyst:	MAA	MAA

8270C Semivolatile Organics - TCL

## Dilution Factor ##		1.0		1.0
Acenaphthene	<	170	<	170
Acenaphthylene		340		270
Anthracene		180	<	170
Benzo(a)anthracene		780		700
Benzo(b)fluoranthene		1200		780
Benzo(k)fluoranthene		1400		1100
Benzo(g,h,i)perylene		620	<	330
Benzo(a)pyrene		360		220
Bis(2-chloroethoxy)methane	<	170	<	170
Bis(2-chloroethyl)ether	<	170	<	170
2,2'-oxybis(1-Chloropropane)	<	500	<	500
Bis(2-ethylhexyl)phthalate	<	170	<	170
4-Bromophenyl phenyl ether	<	170	<	170
Butyl benzyl phthalate	<	170	<	170
Carbazole	<	170	<	170
4-Chloroaniline	<	330	<	330
2-Chloronaphthalene	<	170	<	170
4-Chloro-3-methylphenol	<	330	<	330
2-Chlorophenol	<	330	<	330
4-Chlorophenyl phenyl ether	<	170	<	170
Chrysene		1200		940
Dibenz(a,h)anthracene		170	<	170
Dibenzofuran	<	170	<	170
Di-n-butyl phthalate	<	170	<	170

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Lab Report Number: 9912000141

Client: Atlantic Environmental
Mr. Lynn Willey

Purchase Order #: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Date Received: 12/09/99

Project Number: 99459

Contract Number: N/A

Client Sample ID:	GP-12/8/99B	GP-2 (0-4)
ESC Sample ID:	81806	81807
Location:	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil
Date Sampled:	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg
Date Analyzed :	12/15/99	12/15/99
Time Analyzed :	21:03	21:53
Analyst:	MAA	MAA

8270C Semivolatile Organics - TCL

1,3-Dichlorobenzene	<	170	<	170
1,4-Dichlorobenzene	<	170	<	170
1,2-Dichlorobenzene	<	170	<	170
3,3'-Dichlorobenzidine	<	330	<	330
2,4-Dichlorophenol	<	330	<	330
Diethyl phthalate	<	170	<	170
2,4-Dimethylphenol	<	330	<	330
Dimethyl phthalate	<	170	<	170
4,6-Dinitro-2-methylphenol	<	330	<	330
2,4-Dinitrophenol	<	330	<	330
2,4-Dinitrotoluene	<	170	<	170
2,6-Dinitrotoluene	<	170	<	170
Di-n-octyl phthalate	<	330	<	330
Fluoranthene		1800		1400
Fluorene	<	170	<	170
Hexachlorobenzene	<	170	<	170
Hexachlorobutadiene	<	170	<	170
Hexachlorocyclopentadiene	<	170	<	170
Hexachloroethane	<	170	<	170
Indeno(1,2,3-cd)pyrene		570		290
Isophorone	<	170	<	170
2-Methylnaphthalene	<	170	<	170
2-Methylphenol (o-cresol)	<	330	<	330
4-Methylphenol (p-cresol)	<	330	<	330
Naphthalene	<	170	<	170
2-Nitroaniline	<	170	<	170
3-Nitroaniline	<	170	<	170

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Lab Report Number: 9912000141

Client: Atlantic Environmental
Mr. Lynn Willey

Purchase Order #: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Date Received: 12/09/99

Project Number: 99459

Contract Number: N/A

Client Sample ID:	GP-12/8/99B	GP-2 (0-4)
ESC Sample ID:	81806	81807
Location:	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil
Date Sampled:	12/08/99	12/08/99
** TEST ** Units:	µg/Kg	µg/Kg
Date Analyzed :	12/15/99	12/15/99
Time Analyzed :	21:03	21:53
Analyst:	MAA	MAA

8270C Semivolatile Organics - TCL

4-Nitroaniline	< 330	< 330
Nitrobenzene	< 170	< 170
2-Nitrophenol	< 330	< 330
4-Nitrophenol	< 330	< 330
N-Nitrosodiphenylamine	< 170	< 170
N-Nitrosodi-n-propylamine	< 170	< 170
Pentachlorophenol	< 330	< 330
Phenanthrene	640	420
Phenol	< 330	< 330
Pyrene	2000	1400
1,2,4-Trichlorobenzene	< 170	< 170
2,4,5-Trichlorophenol	< 330	< 330
2,4,6-Trichlorophenol	< 330	< 330
** 2-Fluorophenol **	34%	30%
** Phenol-d5 **	50%	41%
** Nitrobenzene-d5 **	46%	39%
** 2-Fluorobiphenyl **	60%	48%
** 2,4,6-Tribromophenol **	71%	71%
** Terphenyl-d14 **	85%	95%
** 1,2-Dichlorobenzene-d4 **	44%	44%
** 2-Chlorophenol-d4 **	39%	34%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION
502 INDUSTRIAL PARK ROAD
MIDDLETOWN, CT 06457
PHONE: (860) 632-0600
FAX #: (860) 632-7743

Analytical Laboratory Service

CHAIN OF CUSTODY

(Please Print) pg 1 of 2

PROJECT INFORMATION	CLIENT INFORMATION
PROJECT NAME/NUMBER: Guilford/Madison/Clinton RR Stations 99415G	SEND REPORTS TO: Lynn Willey
PROJECT LOCATION: Guilford/Madison/Clinton, CT	COMPANY: GET Consultants/Atlantic Environ Div
PROJECT MANAGER: Jay Curran	ADDRESS: 188 Norwich Ave Colchester, CT 06415
SAMPLER(S): Lynn Willey	PHONE: 860-537-0751
LAB QUOTE #:	FAX: 860-537-6347
PO#:	

DO YOU AUTHORIZE SAMPLES TO BE RETURNED TO YOUR FIRM? ☐ YES ☐ NO

TURNAROUND (TAT): ☑ Standard 10 business days ☐ Other (specify): *Note: Less than 10 days must be pre-approved*

FINAL REPORT: ☑ Mail ☑ Fax ☐ E-mail ☐ Diskette ☐ DBF ☐ XLS

ANALYSIS REQUIRED
IF SPECIAL OR NON-ROUTINE DETECTION LIMITS ARE REQUIRED PLEASE CALL THE LAB

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	SAMPLE TYPE	# OF CONTAINERS	VOC EPA METHODS 8021B	SVOC EPA METHOD 8270	TPH EPA METHOD 418.1	RCRA 8 metals EPA METHOD 6010	RCRA 8 metals SPLP EPA METHOD 1312	PCB / Pesticides EPA Method 8080	Herbicides EPA method 8150				✓ IF FIELD FILTERED	CONDITION UPON RECEIPT
1. FB-12/8/99	12/8/99	1540	water	7	✓	✓	✓	✓		✓	✓					
2. TB-12/8/99	12/8/99	—	water	2	✓											
3. GW-1	12/8/99	1305	water	5	✓	✓		✓								
4. GW-5	12/8/99	945	water	5	✓	✓		✓								
5. GP-4 (0-4)	12/8/99	1455	soil	3	✓	✓	✓	✓	✓	✓	✓					
6. GP-3 (0-4)	12/8/99	1345	soil	3	✓	✓	✓	✓	✓	✓	✓					
7. GP-1 (0-4)	12/8/99	1230	soil	2	✓	✓	✓	✓	✓							
8. GP-1 (4-8)	12/8/99	1240	soil	1	✓											
9. GP-12/8/99B	12/8/99	830	soil	2	✓	✓	✓	✓	✓							
10. GP-2 (0-4)	12/8/99	1430	soil	2		✓	✓	✓	✓							
HAVE HOLDING TIMES BEEN MET- YES(Y) OR NO(N)					Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	
SAMPLE PRESERVED WITH:					ICE	ICE	ICE	ICE	ICE	ICE	ICE					

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
[signature]	12/9 1150	[signature]	12/9/99 1150
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME

REMARKS/NOTES: Standard Turnaround Time
LOW MDLS GA - SWPC Criteria
Call if any questions. Thanks [signature]

NET TERMS: 30 Days: Costs of collection, including attorney's fees, will be added to accounts referred for collection.

The customer agrees that submission of a sample for testing to ESC shall be deemed to be consent to the terms and conditions of this agreement as shown on reverse.

CUSTOMER SIGNATURE - REQUIRED: X

DATE

#011 (9/99)

99-12-141

ENVIRONMENTAL SCIENCE CORP.
WET CHEMISTRY
***** QC SUMMARY *****

CLIENT: GEI/ATLANTIC DIV. **DATE: 12/16/99**
LOG #: 9912000141 **MATRIX: Aqueous**

Dates Analyzed: 12/16/99

ANALYSIS DESCRIPTION	TRUE VALUE	95% CI	RESULT	
Total Petroleum Hydrocarbons	100	NA	NA	mg/l
Total Petroleum Hydrocarbon	200	NA	191	mg/kg

ENVIRONMENTAL SCIENCE CORP.
WET CHEMISTRY
***** METHOD BLANK SUMMARY *****

CLIENT: **GEI/ATLANTIC DIV.** **DATE:** **12/16/99**
LOG #: **9912000141** **MATRIX: Aqueous**

Dates Analyzed: 12/16/99

ANALYSIS DESCRIPTION	RESULT	
Total Petroleum Hydrocarbons	<0.5	mg/l
Total Petroleum Hydrocarbon	<5.0	mg/kg

ENVIRONMENTAL SCINECE CORP.
WET CHEMISTRY
***** DUPLICATES *****

CLIENT **GEI/ATLANTIC DIV.** **DATE:** **12/16/99**
LOG #: **9912000141** **MATRIX:** **Aqueous**

Dates Analyzed: 12/16/99

ANALYSIS DESCRIPTION	SAMPLE RESULT		DUPLICATE AMOUNT	RELATIVE % DEVIATION
Total Petroleum Hydrocarbons	NA	mg/l	NA	NA
Total Petroleum Hydrocarbon	NA	mg/kg	NA	N/C

ENVIRONMENTAL SCIENCE CORP.
WET CHEMISTRY
*** MATRIX SPIKE - DUPLICATE RECOVERY ***

CLIENT: GEI/ATLANTIC DIV. **DATE:** 12/16/99

LOG #: 9912000141 **MATRIX:** Aqueous

Dates Analyzed: 12/16/99

ANALYSIS DESCRIPTION	Units	RESULT SPIKE 1	RESULT SPIKE 2	SAMPLE RESULT	SPIKE ADDED	%R SPIKE 1	%R SPIKE 2
Total Petroleum Hydrocarbons	mg/l	103	96	NA	100	103.0%	96.0%
Total Petroleum Hydrocarbon	mg/kg	224	231		221	101.0%	105.0%

ENVIRONMENTAL SCIENCE CORP.

ATLANTIC
9912000141

QC SUMMARY
Matrix: Aqueous

Compound	Units	True Value	Range	Result	Date Run
Mercury	ug/L	5.00	4.50 - 5.50	4.75	12/15/99

ENVIRONMENTAL SCIENCE CORP.

ATLANTIC
9912000141

METHOD BLANK
Matrix: Aqueous

Compound	Units		Result	Date Run
Mercury	mg/L	<	0.001	12/15/99

ENVIRONMENTAL SCIENCE CORP.

ATLANTIC
9912000141

DUPLICATES
Matrix: Aqueous

Compound	Units		Sample		Duplicate	RPD	Date Run
Mercury	mg/L	<	0.001	<	0.001	N/C	12/15/99

ATLANTIC
9912000141

MATRIX SPIKE/MATRIX SPIKE DUPLICATES
Matrix: Aqueous

Compound	Units	Spike Sample Result	Spike Duplicate Result		Sample Result	Spike Added	% Recovery	% Recovery Duplicate	Date Run
Mercury	ug/L	9.81	10.08	<	1.0	10.0	98.1	101	12/15/99

ATLANTIC ENV.
9912000141

QC SUMMARY
Matrix: Aqueous

Compound	Units	True Value	Range	Result	Date Run
Arsenic	mg/L	1.00	0.85 - 1.15	0.886	12/18/99
Barium	mg/L	1.00	0.85 - 1.15	0.930	12/18/99
Cadmium	mg/L	1.00	0.85 - 1.15	0.924	12/18/99
Chromium	mg/L	1.00	0.85 - 1.15	0.922	12/18/99
Lead	mg/L	1.00	0.85 - 1.15	0.917	12/18/99

ATLANTIC ENV.
9912000141

METHOD BLANK
Matrix: Aqueous

Compound	Units		Result	Date Run
Arsenic	mg/L	<	0.003	12/16/99
Barium	mg/L	<	0.01	12/16/99
Cadmium	mg/L	<	0.005	12/16/99
Chromium	mg/L	<	0.01	12/16/99
Lead	mg/L	<	0.01	12/16/99

ATLANTIC ENV.
9912000141

DUPLICATES
Matrix: Aqueous

Compound	Units		Sample		Duplicate	RPD	Date Run
Arsenic	mg/L	<	0.003	<	0.003	N/C	12/16/99
Barium	mg/L	<	0.01	<	0.01	N/C	12/16/99
Cadmium	mg/L	<	0.005	<	0.005	N/C	12/16/99
Chromium	mg/L		0.02		0.02	N/C	12/16/99
Lead	mg/L	<	0.01	<	0.01	N/C	12/16/99

ATLANTIC ENV.
9912000141

MATRIX SPIKE/MATRIX SPIKE DUPLICATES
Matrix: Aqueous

Compound	Units	Spike Sample Result	Spike Duplicate Result		Sample Result	Spike Added	% Recovery	% Recovery Duplicate	Date Run
Arsenic	mg/L	0.862	0.915	<	0.003	1.00	86.2	91.5	12/16/99
Barium	mg/L	0.971	1.03		0.056	1.00	91.5	97.4	12/16/99
Cadmium	mg/L	0.898	0.952	<	0.01	1.00	89.8	95.2	12/16/99
Chromium	mg/L	0.900	0.954	<	0.01	1.00	90.0	95.4	12/16/99
Lead	mg/L	0.901	0.958	<	0.01	1.00	90.1	95.8	12/16/99

ATLANTIC ENV.
9912000141

QC SUMMARY
Matrix: Aqueous

Compound	Units	True Value	Range	Result	Date Run
Selenium	mg/L	1.00	0.85 - 1.10	0.891	12/17/99
Silver	mg/L	1.00	0.85 - 1.10	0.919	12/17/99

ATLANTIC ENV.
9912000141

METHOD BLANK
Matrix: Aqueous

Compound	Units		Result	Date Run
Selenium	mg/L	<	0.005	12/17/99
Silver	mg/L	<	0.01	12/17/99

ATLANTIC ENV.
9912000141

DUPLICATES
Matrix: Aqueous

Compound	Units		Sample		Duplicate	RPD	Date Run
Selenium	mg/L	<	0.005	<	0.005	N/C	12/17/99
Silver	mg/L	<	0.01	<	0.01	N/C	12/17/99

ATLANTIC ENV.
9912000141

MATRIX SPIKE/MATRIX SPIKE DUPLICATES
Matrix: Aqueous

Compound	Units	Spike Sample Result	Spike Duplicate Result		Sample Result	Spike Added	% Recovery	% Recovery Duplicate	Date Run
Selenium	mg/L	0.867	0.868	<	0.005	1.00	86.7	86.8	12/17/99
Silver	mg/L	0.938	0.974	<	0.01	1.00	93.8	97.4	12/17/99

ATLANTIC ENV.
9912000141

QC SUMMARY
Matrix: Aqueous

Compound	Units	True Value	Range	Result	Date Run
Arsenic	mg/L	1.00	0.85 - 1.15	0.946	12/20/99
Barium	mg/L	1.00	0.85 - 1.15	0.976	12/20/99
Cadmium	mg/L	1.00	0.85 - 1.15	0.962	12/20/99
Chromium	mg/L	1.00	0.85 - 1.15	0.954	12/20/99
Copper	mg/L	1.00	0.85 - 1.15	1.04	12/20/99
Lead	mg/L	1.00	0.85 - 1.15	0.964	12/20/99
Nickel	mg/L	1.00	0.85 - 1.15	0.961	12/20/99
Selenium	mg/L	1.00	0.85 - 1.15	0.894	12/20/99
Zinc	mg/L	1.00	0.85 - 1.15	0.939	12/20/99

ATLANTIC ENV.
9912000141

METHOD BLANK
Matrix: Aqueous

Compound	Units		Result	Date Run
Arsenic	mg/L	<	0.003	12/20/99
Barium	mg/L	<	0.01	12/20/99
Cadmium	mg/L	<	0.005	12/20/99
Chromium	mg/L	<	0.01	12/20/99
Copper	mg/L	<	0.01	12/20/99
Lead	mg/L	<	0.01	12/20/99
Nickel	mg/L	<	0.01	12/20/99
Selenium	mg/L	<	0.005	12/20/99
Zinc	mg/L	<	0.01	12/20/99

ATLANTIC ENV.
9912000141

DUPLICATES
Matrix: Aqueous

Compound	Units		Sample		Duplicate	RPD	Date Run
Arsenic	mg/L	<	0.003	<	0.003	N/C	12/20/99
Barium	mg/L	<	0.01	<	0.01	N/C	12/20/99
Cadmium	mg/L	<	0.005	<	0.005	N/C	12/20/99
Chromium	mg/L	<	0.01	<	0.01	N/C	12/20/99
Copper	mg/L	<	0.01	<	0.01	N/C	12/20/99
Lead	mg/L	<	0.01	<	0.01	N/C	12/20/99
Nickel	mg/L	<	0.01	<	0.01	N/C	12/20/99
Selenium	mg/L	<	0.005	<	0.005	N/C	12/20/99
Zinc	mg/L		0.02	<	0.01	66.7	12/20/99

ATLANTIC ENV.
9912000141

MATRIX SPIKE/MATRIX SPIKE DUPLICATES
Matrix: Aqueous

Compound	Units	Spike Sample Result	Spike Duplicate Result		Sample Result	Spike Added	% Recovery	% Recovery Duplicate	Date Run
Arsenic	mg/L	0.969	0.938	<	0.003	1.00	96.9	93.8	12/20/99
Barium	mg/L	1.02	0.986		0.014	1.00	100.6	97.2	12/20/99
Cadmium	mg/L	0.978	0.946	<	0.005	1.00	97.8	94.6	12/20/99
Chromium	mg/L	0.973	0.94	<	0.01	1.00	97.3	94.0	12/20/99
Copper	mg/L	1.06	1.02	<	0.01	1.00	106	102	12/20/99
Lead	mg/L	0.975	0.946	<	0.01	1.00	97.5	94.6	12/20/99
Nickel	mg/L	0.987	0.956	<	0.01	1.00	98.7	95.6	12/20/99
Selenium	mg/L	0.916	0.887	<	0.005	1.00	91.6	88.7	12/20/99
Zinc	mg/L	0.949	0.919	<	0.01	1.00	94.9	91.9	12/20/99

ENVIRONMENTAL SCIENCE CORP.

ATLANTIC
9912000141

QC SUMMARY
Matrix: Soil / Solid

Compound	Units	True Value	Range	Result	Date Run
Mercury	mg/Kg	3.13	1.83 - 4.44	2.93	12/15/99

ENVIRONMENTAL SCIENCE CORP.

ATLANTIC
9912000141

METHOD BLANK
Matrix: Aqueous

Compound	Units		Result soil	Date Run
Mercury	mg/L	<	0.001	12/15/99

ENVIRONMENTAL SCIENCE CORP.

ATLANTIC
9912000141

DUPLICATES
Matrix: Soil

Compound	Units	Sample	Duplicate	RPD	Date Run
Mercury	mg/Kg	< 0.20	< 0.20	N/C	12/15/99

ENVIRONMENTAL SCIENCE CORP.

ATLANTIC
9912000141

MATRIX SPIKE RECOVERY
Matrix: Soil/Solid

Compound	Units	Spike Result		Sample Result	Spike Added	Percent Recovery	Date Run
Mercury	mg/Kg	1.80	<	0.20	2.14	84.1	12/15/99

ENVIRONMENTAL SCIENCE CORP.

ATLANTIC
9912000141

MATRIX SPIKE DUPLICATE RECOVERY
Matrix: Soil/Solid

Compound	Units	Spike Result		Sample Result	Spike Added	Percent Recovery	Date Run
Mercury	mg/Kg	1.64	<	0.20	2.05	80.0	12/15/99

ATLANTIC ENV.
9912000141

QC SUMMARY
Matrix: Soil / Solid

Compound	Units	True Value Lot # 243	Range	Result	Date Run
Arsenic	mg/Kg	53.2	38.3 - 68.2	50.5	12/17/99
Barium	mg/Kg	112	86.0 - 137	112	12/17/99
Cadmium	mg/Kg	151	116 - 185	141	12/17/99
Chromium	mg/Kg	99.4	76.6 - 122	87.9	12/17/99
Lead	mg/Kg	97.8	74.5 - 121	97.3	12/17/99
Selenium	mg/Kg	143	106 - 180	118	12/17/99
Silver	mg/Kg	107	80.0 - 135	104	12/17/99

ATLANTIC ENV.
9912000141

METHOD BLANK
Matrix: Aqueous

Compound	Units		Result	Date Run
Arsenic	mg/L	<	0.003	12/16/99
Barium	mg/L	<	0.01	12/16/99
Cadmium	mg/L	<	0.005	12/16/99
Chromium	mg/L	<	0.01	12/16/99
Lead	mg/L	<	0.01	12/16/99
Selenium	mg/L	<	0.005	12/16/99
Silver	mg/L	<	0.01	12/16/99

ATLANTIC ENV.
9912000141

DUPLICATES
Matrix: Soil

Compound	Units		Sample		Duplicate	RPD	Date Run
Arsenic	mg/Kg		57.5		40.6	34.5	12/16/99
Barium	mg/Kg		75.8		69.6	8.5	12/16/99
Cadmium	mg/Kg		0.797		0.861	7.7	12/16/99
Chromium	mg/Kg		17.3		17.6	1.7	12/16/99
Lead	mg/Kg		99.3		89.5	10.4	12/16/99
Selenium	mg/Kg	<	0.270	<	0.270	N/C	12/16/99
Silver	mg/Kg	<	0.54	<	0.54	N/C	12/16/99

ATLANTIC ENV.
9912000141

MATRIX SPIKE RECOVERY
Matrix: Soil/Solid

Compound	Units	Spike Result		Sample Result	Spike Added	Percent Recovery	Date Run
Arsenic	mg/Kg	79.4		57.5	55.3	39.6	12/16/99
Barium	mg/Kg	119		75.8	55.3	78.1	12/16/99
Cadmium	mg/Kg	46.6		0.797	55.3	82.8	12/16/99
Chromium	mg/Kg	64.5		17.3	55.3	85.4	12/16/99
Lead	mg/Kg	129		99.3	55.3	53.7	12/16/99
Selenium	mg/Kg	40.5	<	0.270	55.3	73.2	12/16/99
Silver	mg/Kg	47.6	<	0.54	55.3	86.1	12/16/99

ATLANTIC ENV.
9912000141

MATRIX SPIKE DUPLICATE RECOVERY
Matrix: Soil/Solid

Compound	Units	Spike Result		Sample Result	Spike Added	Percent Recovery	Date Run
Arsenic	mg/Kg	79.4		57.5	57.3	38.2	12/17/99
Barium	mg/Kg	119		75.8	57.3	75.4	12/17/99
Cadmium	mg/Kg	46.6		0.797	57.3	79.9	12/17/99
Chromium	mg/Kg	65.5		17.3	57.3	84.1	12/17/99
Lead	mg/Kg	129		99.3	57.3	51.8	12/17/99
Selenium	mg/Kg	40.5	<	0.270	57.3	70.7	12/17/99
Silver	mg/Kg	47.6	<	0.54	57.3	83.1	12/17/99

ATLANTIC ENVIRONMENTAL
9912000141

*** Environmental Science Corporation ***

*** QC Summary Report ***

METHOD
8082/608

DATE
12/16/99

LCS/LCSD SUMMARY

MATRIX : AQUEOUS UNITS : µg/L

COMPOUND NAME :	TRUE VALUE	LCS	LCSD	LCS%REC	LCSD%REC	RPD
PCB AROCLOR (1260)	10	9.4	9.5	93.8	95	1.3

METHOD BLANK REPORT

MATRIX : AQUEOUS UNITS : ug/L

COMPOUND NAME :	RESULTS
AROCLOR 1016	< 0.5
AROCLOR 1221	< 0.5
AROCLOR 1232	< 0.5
AROCLOR 1242	< 0.5
AROCLOR 1248	< 0.5
AROCLOR 1254	< 0.5
AROCLOR 1260	< 0.5

ATLANTIC ENVIRONMENTAL
9912000141

*** Environmental Science Corporation ***

*** QC Summary Report ***

METHOD
8082

DATE
12/16/99

LCS/LCSD SUMMARY

MATRIX : SOLID UNITS : mg/kg

COMPOUND NAME :	TRUE VALUE	LCS	LCS%REC
PCB AROCLOR (1260)	0.33	0.29	87.9

METHOD BLANK REPORT

MATRIX : SOLID UNITS : mg/kg

COMPOUND NAME :	RESULTS
AROCLOR 1016	< 0.1
AROCLOR 1221	< 0.1
AROCLOR 1232	< 0.1
AROCLOR 1242	< 0.1
AROCLOR 1248	< 0.1
AROCLOR 1254	< 0.1
AROCLOR 1260	< 0.1

MATRIX SPIKE SUMMARY

MATRIX : SOLID UNITS : mg/kg

COMPOUND NAME :	TRUE VALUE	RESULTS	DUPLICATE	Spike%REC	Dup%REC	RPD
PCB AROCLOR (1260)	0.33	0.55	0.39	167	118	34.0

ATLANTIC ENV.
9912000141

*** Environmental Science Corporation ***
*** QC Summary Report ***
Method: 8021 - 601/602
Matrix: Aqueous/Solid

Date: 12/17/99 LCS Summary Units: µg/L

Compound Name:	True Value	Result	QC Limits
1,1 - Dichloroethane	10.0	9.8	5.0 - 15.0
Chloroform	10.0	10.0	5.9 - 14.1
1,1,1-Trichloroethane	10.0	10.9	4.9 - 15.1
Trichloroethene	10.0	10.3	5.6 - 14.4
Dibromochloromethane	10.0	9.1	6.8 - 13.2
Bromoform	10.0	9.3	6.4 - 13.6
Benzene	10.0	9.4	6.2 - 13.8
Toluene	10.0	9.5	6.8 - 13.2
1,2-Dichlorobenzene	10.0	9.5	7.5 - 12.5

Matrix Spike / Matrix Spike Duplicate Summary

Compound Name:	True Value	MS	MSD	%REC	%REC	RPD
1,1 - Dichloroethane	10.0	10.6	10.4	106	104	1.9
Chloroform	10.0	10.6	10.4	106	104	1.9
1,1,1-Trichloroethane	10.0	11.5	11.3	115	113	1.8
Trichloroethene	10.0	11.0	10.8	110	108	1.8
Dibromochloromethane	10.0	10.4	10.6	104	106	1.9
Bromoform	10.0	9.7	9.6	97	96	1.0
Benzene	10.0	10.0	9.8	100	98	2.0
Toluene	10.0	10.1	10.0	101	100	1.0
1,2-Dichlorobenzene	10.0	9.8	9.6	98	96	2.1

*** Method Blank ***
Method 8021
(cont.)

Date: 12/17/99 Matrix: Aqueous/Solid Units: µg/L

Compound Name	Result
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 1.0
Isopropylbenzene	< 1.0
4-Isopropyltoluene	< 1.0
Methylene Chloride	1.4
Methyl tert-butyl ether	< 1.0
Naphthalene	< 1.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 1.0
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 1.0
1,2,4-Trichlorobenzene	< 1.0
1,1,1-Trichloroethane	< 1.0
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 1.0
Trichlorofluoromethane	< 1.0
1,2,3-Trichloropropane	< 1.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl Chloride	< 1.0
m&p-Xylene	< 1.0
o-Xylene	< 1.0

*** Method Blank ***
Method 8021
(cont.)

Date: 12/20/99 Matrix: Aqueous/Solid Units: µg/L

Compound Name	Result
Ethylbenzene	< 1.0
Hexachlorobutadiene	< 1.0
Isopropylbenzene	< 1.0
4-Isopropyltoluene	< 1.0
Methylene Chloride	1.7
Methyl tert-butyl ether	< 1.0
Naphthalene	< 1.0
n-Propylbenzene	< 1.0
Styrene	< 1.0
1,1,1,2-Tetrachloroethane	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0
Tetrachloroethene	< 1.0
Toluene	< 1.0
1,2,3-Trichlorobenzene	< 1.0
1,2,4-Trichlorobenzene	< 1.0
1,1,1-Trichloroethane	< 1.0
1,1,2-Trichloroethane	< 1.0
Trichloroethene	< 1.0
Trichlorofluoromethane	< 1.0
1,2,3-Trichloropropane	< 1.0
1,2,4-Trimethylbenzene	< 1.0
1,3,5-Trimethylbenzene	< 1.0
Vinyl Chloride	< 1.0
m&p-Xylene	< 1.0
o-Xylene	< 1.0

Environmental Science

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: LCS 12/16 SOIL
Level: LOW
Data Type: MS DATA
SpikeList File: 625.spk
Method File: /chem/ern.i/991217e.b/8270.m
Misc Info: LCS 12/16 SOIL

Client SDG: 991217e
Fraction: SV
Client Smp ID: LCS 12/16 SOIL
Operator: MAA
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/KG	CONC RECOVERED ug/KG	% RECOVERED	LIMITS
14 Phenol	3330	1870	56.20	10-112
15 Bis(2-chloroethyl)	3330	1720	51.49	12-158
16 2-Chlorophenol	3330	1690	50.75	23-134
17 1,3-Dichlorobenzen	3330	1740	52.32	10-172
19 1,4-Dichlorobenzen	3330	1740	52.24	20-124
21 1,2-Dichlorobenzen	3330	1770	53.10	32-129
27 N-Nitrosodinpropyl	3330	2180	65.33	10-230
29 Hexachloroethane	3330	1790	53.84	40-113
32 Nitrobenzene	3330	2010	60.34	35-180
34 Isophorone	3330	2330	69.94	21-196
35 2-Nitrophenol	3330	1880	56.45	29-182
36 2,4-Dimethylphenol	3330	1790	53.74	32-119
37 Bis(2-chloroethoxy	3330	2080	62.56	33-184
38 2,4-Dichlorophenol	3330	1910	57.20	39-135
39 1,2,4-Trichloroben	3330	1810	54.29	44-142
42 Naphthalene	3330	1880	56.40	21-133
48 Hexachlorobutadien	3330	1840	55.10	24-116
52 4-Chloro-3-Methylp	3330	2360	70.68	22-147
56 Hexachlorocyclopen	3330	2150	64.42	10-140
57 2,4,6-Trichlorophe	3330	2120	63.73	37-144
61 2-Chloronaphthalen	3330	2140	64.24	60-180
64 Dimethylphthalate	3330	2860	85.94	10-112
65 Acenaphthylene	3330	2360	70.95	33-145
66 2,6-Dinitrotoluene	3330	2510	75.42	50-158
69 Acenaphthene	3330	2310	69.36	47-145
70 2,4-Dinitrophenol	3330	2600	78.14	10-191
74 2,4-Dinitrotoluene	3330	2840	85.09	39-139
78 Fluorene	3330	2490	74.77	59-121
79 Diethylphthalate	3330	2920	87.67	10-114
80 4-Chlorophenyl-phe	3330	2520	75.51	25-158
82 4-Nitrophenol	3330	2730	81.92	10-132
84 4,6-Dinitro-2-meth	3330	2760	82.97	10-181
86 N-Nitrosodiphenyla	3330	2270	67.99	30-140
91 4-Bromophenyl-phen	3330	2660	79.96	53-127
97 Hexachlorobenzene	3330	2660	79.89	10-152
100 Pentachlorophenol	3330	2750	82.57	14-176

SPIKE COMPOUND	CONC ADDED ug/KG	CONC RECOVERED ug/KG	% RECOVERED	LIMITS
103 Phenanthrene	3330	2700	80.96	54-120
104 Anthracene	3330	2700	81.01	27-133
114 Di-n-Butylphthalat	3330	3000	89.91	10-118
119 Fluoranthene	3330	2840	85.36	26-137
124 Pyrene	3330	2840	85.05	52-115
125 Benzidine	3330	0.000	*	10-200
144 Butylbenzylphthala	3330	2990	89.60	10-150
147 Benzo(a)Anthracene	3330	2840	85.15	33-143
150 3,3'-Dichlorobenzi	3330	2630	78.98	10-262
151 Chrysene	3330	2910	87.27	17-168
153 bis(2-ethylhexyl)P	3330	2900	87.12	10-158
154 Di-n-octylphthalat	3330	2750	82.48	10-148
155 Benzo(b)fluoranthe	3330	2660	79.87	24-159
157 Benzo(k)fluoranthe	3330	2980	89.49	11-162
159 Benzo(a)pyrene	3330	2810	84.40	17-163
162 Indeno(1,2,3-cd)py	3330	3030	91.00	10-171
163 Dibenzo(a,h)anthra	3330	2860	85.96	10-227
164 Benzo(g,h,i)peryle	3330	2980	89.51	10-219

SURROGATE COMPOUND	CONC ADDED ug/KG	CONC RECOVERED ug/KG	% RECOVERED	LIMITS
$ 8 2-Fluorophenol	5000	2320	46.33	25-141
$ 13 Phenol-d5	5000	2860	57.14	24-113
$ 31 Nitrobenzene-d5	3330	2000	59.94	23-120
$ 59 2-Fluorobiphenyl	3330	2070	62.08	30-115
$ 88 2,4,6-Tribromophen	5000	4000	80.09	19-122
$ 128 Terphenyl-d14	3330	2840	85.38	18-137
$ 219 2-Chlorophenol-d4	5000	2340	46.76	10-140
$ 218 1,2-Dichlorobenzen	3330	1460	43.98	10-140

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB 12/16 SOIL

Lab Name: ENVIRONMENTAL SCIENCE Contract:

Lab Code: Case No.: SAS No.: SDG No.: 991217E

Matrix: (soil/water) SOIL Lab Sample ID: MB 12/16 SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0301003

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/17/99

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
62-53-3	Aniline	333	U
108-95-2	Phenol	333	U
111-44-4	Bis(2-chloroethyl)ether	167	U
95-57-8	2-Chlorophenol	333	U
541-73-1	1,3-Dichlorobenzene	167	U
106-46-7	1,4-Dichlorobenzene	167	U
62-75-9	N-Nitrosodimethylamine	333	U
100-51-6	Benzyl Alcohol	167	U
95-50-1	1,2-Dichlorobenzene	167	U
95-48-7	2-Methylphenol	333	U
39638-32-9	bis(2-Chloroisopropyl)ether	167	U
621-64-7	N-Nitrosodinpropylamine	167	U
106-44-5	4-Methylphenol	333	U
67-72-1	Hexachloroethane	167	U
98-95-3	Nitrobenzene	167	U
78-59-1	Isophorone	167	U
88-75-5	2-Nitrophenol	333	U
105-67-9	2,4-Dimethylphenol	333	U
111-91-1	Bis(2-chloroethoxy)methane	167	U
65-85-0	Benzoic Acid	333	U
120-83-2	2,4-Dichlorophenol	333	U
120-82-1	1,2,4-Trichlorobenzene	167	U
91-20-3	Naphthalene	167	U
106-47-8	4-Chloroaniline	333	U
87-68-3	Hexachlorobutadiene	167	U
59-50-7	4-Chloro-3-Methylphenol	333	U
91-57-6	2-Methylnaphthalene	167	U
77-47-4	Hexachlorocyclopentadiene	167	U
88-06-2	2,4,6-Trichlorophenol	333	U
95-95-4	2,4,5-Trichlorophenol	333	U
91-58-7	2-Chloronaphthalene	167	U
88-74-4	2-Nitroaniline	167	U
208-96-8	Acenaphthylene	167	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB 12/16 SOIL

Lab Name: ENVIRONMENTAL SCIENCE Contract:

Lab Code: Case No.: SAS No.: SDG No.: 991217E

Matrix: (soil/water) SOIL Lab Sample ID: MB 12/16 SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0301003

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/17/99

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	167	U
99-09-2	3-Nitroaniline	167	U
83-32-9	Acenaphthene	167	U
51-28-5	2,4-Dinitrophenol	333	U
132-64-9	Dibenzofuran	167	U
100-02-7	4-Nitrophenol	167	U
121-14-2	2,4-Dinitrotoluene	167	U
86-73-7	Fluorene	167	U
131-11-3	Dimethylphthalate	167	U
84-66-2	Diethylphthalate	167	U
7005-72-3	4-Chlorophenyl-phenylether	167	U
100-01-6	4-Nitroaniline	167	U
534-52-1	4,6-Dinitro-2-methylphenol	167	U
86-30-6	N-Nitrosodiphenylamine (1)	333	U
101-55-3	4-Bromophenyl-phenylether	167	U
118-74-1	Hexachlorobenzene	167	U
87-86-5	Pentachlorophenol	333	U
85-01-8	Phenanthrene	167	U
120-12-7	Anthracene	167	U
84-74-2	Di-n-Butylphthalate	167	U
206-44-0	Fluoranthene	167	U
92-87-5	Benzidine	1000	U
129-00-0	Pyrene	167	U
85-68-7	Butylbenzylphthalate	167	U
56-55-3	Benzo(a)Anthracene	167	U
91-94-1	3,3'-Dichlorobenzidine	333	U
218-01-9	Chrysene	167	U
117-81-7	bis(2-ethylhexyl)Phthalate	167	U
117-84-0	Di-n-octylphthalate	167	U
205-99-2	Benzo(b)fluoranthene	167	U
207-08-9	Benzo(k)fluoranthene	167	U
50-32-8	Benzo(a)pyrene	167	U
193-39-5	Indeno(1,2,3-cd)pyrene	167	U

(1) - Cannot be separated from Diphenylamine

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MB 12/16 SOIL

Lab Name: ENVIRONMENTAL SCIENCE Contract:

Lab Code: Case No.: SAS No.: SDG No.: 991217E

Matrix: (soil/water) SOIL Lab Sample ID: MB 12/16 SOIL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0301003

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/17/99

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3	Dibenzo(a,h)anthracene	167	U
88-73-3	1-Chloro-2-nitrobenzene	333	U
191-24-2	Benzo(g,h,i)perylene	167	U
	DCNA	167	U
	Dichlone	167	U
110-86-1	Pyridine	333	U
119-93-7	3,3'-Dimethylbenzidine	333	U
98-86-2	Acetophenone	167	U
	3-Methylphenol	333	U
	Carbazole	167	U
	Azobenzene	167	U
91-51-2	2-Chloroaniline	333	U
	Benzaldehyde	167	U
	Caprolactum	167	U
	Biphenyl	167	U
	Atrazine	167	U

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

December 22, 1999

DEC 23 1999

Mr. Lynn Willey
Atlantic Environmental
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415

RE: ESC # 9912000142 99459 Guilford/Madison/Clinton RR Stations

Dear Mr. Willey:

Enclosed please find the results of analysis for 10 samples received at Environmental Science Corporation on December 9, 1999. The analyses associated with these samples include:

418.1	TPH - IR
8021B	Aromatic and Halogenated Volatiles
8081A	Pesticides
8082	PCBs
8151A	Chlorinated Herbicides
8270C	Semivolatile Organics - TCL
RCRA (8)	Metals - Soil
SM2540B	Total Solids
SPLP Method 1312 - RCRA 8 Metals (S)	

Should you have any questions regarding the enclosed material, or require additional information, please contact Client Services at (860) 632-0600.

Sincerely,

Kyle F. Gross
Laboratory Director

John M. Dzialo
Registrar

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Project Narrative
ESC# 9912000142

The following samples have been reviewed for accuracy and completeness.
Any comments associated with your sample results are outlined below.

8021 method blanks contained 1.6,1.8 & 1.7 µg/L of methylene chloride & 2.4, & 2.5 µg/L of dichlorodifluoromehtane. For the continuing calibration, 1,1-DCE was 16% (12/18),13% (12/19),14% (12/20) low, 2 ceve was 3% low (12/20).

GP-2 (4-8)

TB-12/8/99A

SS-1 (0.0-0.5)

Dilution Factor
Diluted due to high background contamination.

GP-7 (0-4)

GP-12/8/99

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Project Name: **Guilford/Madison/Clinton RR Stations**

Project Number: **99459**

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Date Received: **12/09/99**

Contract Number: **N/A**

Client Sample ID:	GP-2 (4-8)	TB-12/8/99A
ESC Sample ID:	81808	81809
Location:	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Aqueous
Date Sampled:	12/08/99	12/08/99

** TEST **

Total Solids	81.1	%	12/13/99	11:20	JS	N/A

<- Below Practical Quantitation Limit
NA - Not Analyzed

Soils analyzed on dry weight basis.

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Lab Report Number: 9912000142

Purchase Order #: N/A

Date Received: 12/09/99

Contract Number: N/A

Client Sample ID:	SS-1 (0.0-0.5)					GP-7 (0-4)					
ESC Sample ID:	81810					81811					
Location:	Guil/Mad/Clint					Guil/Mad/Clint					
Matrix:	Soil					Soil					
Date Sampled:	12/08/99					12/08/99					
** TEST **											
Total Solids	89.6	%	12/13/99	11:20	JS	95.2	%	12/13/99	11:20	JS
Silver	< 0.55	mg/Kg	12/16/99	10:37	ML	< 0.50	mg/Kg	12/16/99	10:37	ML
Lead	66.1	mg/Kg	12/16/99	10:37	ML	17.2	mg/Kg	12/16/99	10:37	ML
Mercury	0.59	mg/Kg	12/21/99	16:30	JT	< 0.19	mg/Kg	12/21/99	16:30	JT
Barium	43.3	mg/Kg	12/16/99	10:37	ML	34.9	mg/Kg	12/16/99	10:37	ML
Cadmium	0.601	mg/Kg	12/16/99	10:37	ML	0.273	mg/Kg	12/16/99	10:37	ML
Chromium	8.8	mg/Kg	12/16/99	10:37	ML	8.6	mg/Kg	12/16/99	10:37	ML
Selenium	< 0.277	mg/Kg	12/16/99	10:37	ML	< 0.250	mg/Kg	12/16/99	10:37	ML
Total Petroleum Hydrocarbons	32	mg/Kg	12/19/99	14:00	JS	85	mg/Kg	12/19/99	14:00	JS
Barium - SPLP	0.04	mg/L	12/16/99	10:23	LZS	0.04	mg/L	12/16/99	10:23	LZS
Cadmium - SPLP	< 0.005	mg/L	12/16/99	10:23	LZS	< 0.005	mg/L	12/16/99	10:23	LZS
Chromium - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Lead - SPLP	0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Silver - SPLP	< 0.01	mg/L	12/17/99	17:35	KFG	< 0.01	mg/L	12/20/99	11:53	LZS
Mercury - SPLP	< 0.001	mg/L	12/20/99	20:00	JT	< 0.001	mg/L	12/20/99	20:00	JT
Arsenic	16.9	mg/Kg	12/16/99	10:37	ML	1.70	mg/Kg	12/16/99	10:37	ML
Arsenic - SPLP	< 0.003	mg/L	12/16/99	10:23	LZS	< 0.003	mg/L	12/16/99	10:23	LZS
Selenium - SPLP	< 0.005	mg/L	12/17/99	17:35	KFG	< 0.005	mg/L	12/20/99	11:44	LZS

<- Below Practical Quantitation Limit
NA - Not Analyzed

Soils analyzed on dry weight basis.

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Lab Report Number: 9912000142

Purchase Order #: N/A

Date Received: 12/09/99

Contract Number: N/A

Client Sample ID:	GP-12/8/99					SS-2 (0.0-0.5)				
ESC Sample ID:	81812					81813				
Location:	Guil/Mad/Clint					Guil/Mad/Clint				
Matrix:	Soil					Soil				
Date Sampled:	12/08/99					12/08/99				
* TEST **										
Total Solids	92.7	%	12/13/99	11:20	JS	90.9	%	12/14/99	10:30	JS
Silver	< 0.51	mg/Kg	12/16/99	10:37	ML	< 0.54	mg/Kg	12/16/99	10:37	ML
Lead	23.9	mg/Kg	12/16/99	10:37	ML	37.5	mg/Kg	12/16/99	10:37	ML
Mercury	< 0.17	mg/Kg	12/21/99	16:30	JT	< 0.21	mg/Kg	12/21/99	16:30	JT
Barium	40.4	mg/Kg	12/16/99	10:37	ML	119	mg/Kg	12/16/99	10:37	ML
Cadmium	0.318	mg/Kg	12/16/99	10:37	ML	0.540	mg/Kg	12/16/99	10:37	ML
Chromium	8.2	mg/Kg	12/16/99	10:37	ML	10.7	mg/Kg	12/16/99	10:37	ML
Selenium	< 0.255	mg/Kg	12/16/99	10:37	ML	< 0.271	mg/Kg	12/16/99	10:37	ML
Total Petroleum Hydrocarbons	20	mg/Kg	12/19/99	14:00	JS	< 5.0	mg/Kg	12/19/99	14:00	JS
Barium - SPLP	0.01	mg/L	12/16/99	10:23	LZS	0.01	mg/L	12/16/99	10:23	LZS
Cadmium - SPLP	< 0.005	mg/L	12/16/99	10:23	LZS	< 0.005	mg/L	12/16/99	10:23	LZS
Chromium - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Lead - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	< 0.01	mg/L	12/16/99	10:23	LZS
Silver - SPLP	< 0.01	mg/L	12/20/99	11:53	LZS	< 0.01	mg/L	12/20/99	11:53	LZS
Mercury - SPLP	< 0.001	mg/L	12/20/99	20:00	JT	< 0.001	mg/L	12/20/99	20:00	JT
Arsenic	2.06	mg/Kg	12/16/99	10:37	ML	2.66	mg/Kg	12/16/99	10:37	ML
Arsenic - SPLP	< 0.003	mg/L	12/16/99	10:23	LZS	< 0.003	mg/L	12/16/99	10:23	LZS
Selenium - SPLP	< 0.005	mg/L	12/20/99	11:44	LZS	< 0.005	mg/L	12/20/99	11:44	LZS

<- Below Practical Quantitation Limit
NA - Not Analyzed

Soils analyzed on dry weight basis.

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle F. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Lab Report Number: 9912000142

Purchase Order #: N/A

Date Received: 12/09/99

Contract Number: N/A

** TEST **

Client Sample ID:	SS-12/8/99					GP-6 (6-8)					
ESC Sample ID:	81814					81815					
Location:	Guil/Mad/Clint					Guil/Mad/Clint					
Matrix:	Soil					Soil					
Date Sampled:	12/08/99					12/08/99					
Total Solids	91.1	%	12/14/99	10:30	JS	96.5	%	12/14/99	10:30	JS	
Silver	< 0.56	mg/Kg	12/16/99	10:37	ML	N/A					
Lead	71.2	mg/Kg	12/16/99	10:37	ML	N/A					
Mercury	< 0.23	mg/Kg	12/21/99	16:30	JT	N/A					
Barium	57.6	mg/Kg	12/16/99	10:37	ML	N/A					
Cadmium	0.409	mg/Kg	12/16/99	10:37	ML	N/A					
Chromium	10.4	mg/Kg	12/16/99	10:37	ML	N/A					
Selenium	< 0.282	mg/Kg	12/16/99	10:37	ML	N/A					
Total Petroleum Hydrocarbons	< 5.0	mg/Kg	12/19/99	14:00	JS	N/A					
Barium - SPLP	0.01	mg/L	12/16/99	10:23	LZS	N/A					
Cadmium - SPLP	< 0.005	mg/L	12/16/99	10:23	LZS	N/A					
Chromium - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	N/A					
Lead - SPLP	< 0.01	mg/L	12/16/99	10:23	LZS	N/A					
Silver - SPLP	< 0.01	mg/L	12/20/99	11:53	LZS	N/A					
Mercury - SPLP	< 0.001	mg/L	12/20/99	20:00	JT	N/A					
Arsenic	4.44	mg/Kg	12/16/99	10:37	ML	N/A					
Arsenic - SPLP	< 0.003	mg/L	12/16/99	10:23	LZS	N/A					
Selenium - SPLP	< 0.005	mg/L	12/20/99	11:44	LZS	N/A					

<- Below Practical Quantitation Limit
NA - Not Analyzed

Soils analyzed on dry weight basis.

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Lab Report Number: 9912000142

Purchase Order #: N/A

Date Received: 12/09/99

Contract Number: N/A

Client Sample ID:	GP-6 (0-2)					GP-6 (2-4)				
ESC Sample ID:	81816					81817				
Location:	Guil/Mad/Clint					Guil/Mad/Clint				
Matrix:	Soil					Soil				
Date Sampled:	12/08/99					12/08/99				
** TEST **										
Total Solids	87.9	%	12/14/99	10:30	JS	95.2	%	12/14/99	10:30	JS
Silver	N/A					< 0.49	mg/Kg	12/16/99	10:37	ML
Lead	N/A					3.7	mg/Kg	12/16/99	10:37	ML
Mercury	N/A					< 0.19	mg/Kg	12/21/99	16:30	JT
Barium	N/A					33.0	mg/Kg	12/16/99	10:37	ML
Cadmium	N/A					< 0.244	mg/Kg	12/16/99	10:37	ML
Chromium	N/A					8.6	mg/Kg	12/16/99	10:37	ML
Selenium	N/A					< 0.244	mg/Kg	12/16/99	10:37	ML
Total Petroleum Hydrocarbons	< 5.0	mg/Kg	12/19/99	14:00	JS	N/A				
Barium - SPLP	N/A					0.02	mg/L	12/16/99	10:23	LZS
Cadmium - SPLP	N/A					< 0.005	mg/L	12/16/99	10:23	LZS
Chromium - SPLP	N/A					< 0.01	mg/L	12/16/99	10:23	LZS
Lead - SPLP	N/A					< 0.01	mg/L	12/16/99	10:23	LZS
Silver - SPLP	N/A					< 0.01	mg/L	12/20/99	11:53	LZS
Mercury - SPLP	N/A					< 0.001	mg/L	12/20/99	20:00	JT
Arsenic	N/A					1.56	mg/Kg	12/16/99	10:37	ML
Arsenic - SPLP	N/A					< 0.003	mg/L	12/16/99	10:23	LZS
Selenium - SPLP	N/A					< 0.005	mg/L	12/20/99	11:44	LZS

<- Below Practical Quantitation Limit
NA - Not Analyzed

Low MDLS- GA + SWPC criteria

Soils analyzed on dry weight basis.

12/22/99

Date Reported

Kyle F. Gross

Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: Atlantic Environmental
Mr. Lynn Willey

Lab Report Number: 9912000142
Purchase Order #: N/A
Date Received: 12/09/99
Contract Number: N/A

Project Name: Guilford/Madison/Clinton RR Stations

Project Number: 99459

Client Sample ID:	GP-2 (4-8)	TB-12/8/99A	SS-1 (0.0-0.5)	GP-7 (0-4)
ESC Sample ID:	81808	81809	81810	81811
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Aqueous	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	N/A	N/A	mg/Kg	mg/Kg
Date Analyzed :			12/16/99	12/16/99
Time Analyzed :			16:43	17:13
Analyst:			JVK	JVK
8082 PCBs				
## Dilution Factor ##	N/A	N/A	1.0	1.0
Aroclor-1016	N/A	N/A	< 0.10	< 0.10
Aroclor-1221	N/A	N/A	< 0.10	< 0.10
Aroclor-1232	N/A	N/A	< 0.10	< 0.10
Aroclor-1242	N/A	N/A	< 0.10	< 0.10
Aroclor-1248	N/A	N/A	< 0.10	< 0.10
Aroclor-1254	N/A	N/A	< 0.10	< 0.10
Aroclor-1260	N/A	N/A	< 0.10	< 0.10
** TCMX **			93%	93%

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ENVIRONMENTAL SCIENCE CORPORATION

Great River Center, 362 Industrial Park Road
Middletown, CT 06457, (860) 632-0600
FAX (860) 632-7743

Client: **Atlantic Environmental**
Mr. Lynn Willey

Lab Report Number: **9912000142**

Purchase Order #: **N/A**

Project Name: **Guilford/Madison/Clinton RR Stations**

Date Received: **12/09/99**

Project Number: **99459**

Contract Number: **N/A**

Client Sample ID:	GP-12/8/99	SS-2 (0.0-0.5)	SS-12/8/99	GP-6 (6-8)
ESC Sample ID:	81812	81813	81814	81815
Location:	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint	Guil/Mad/Clint
Matrix:	Soil	Soil	Soil	Soil
Date Sampled:	12/08/99	12/08/99	12/08/99	12/08/99
** TEST ** Units:	mg/Kg	mg/Kg	mg/Kg	N/A
Date Analyzed :	12/16/99	12/16/99	12/16/99	
Time Analyzed :	17:44	18:14	18:45	
Analyst:	JVK	JVK	JVK	
8082 PCBs				
## Dilution Factor ##	1.0	1.0	1.0	N/A
Aroclor-1016	< 0.10	< 0.10	< 0.10	N/A
Aroclor-1221	< 0.10	< 0.10	< 0.10	N/A
Aroclor-1232	< 0.10	< 0.10	< 0.10	N/A
Aroclor-1242	< 0.10	< 0.10	< 0.10	N/A
Aroclor-1248	< 0.10	< 0.10	< 0.10	N/A
Aroclor-1254	< 0.10	< 0.10	< 0.10	N/A
Aroclor-1260	< 0.10	< 0.10	< 0.10	N/A
** TCMX **	91%	73%	81%	

<- Below Practical Quantitation Limit
N/A - Not Analyzed

Soils analyzed on dry weight basis.
**-Surrogate

Low MDLS- GA + SWPC criteria

12/22/99
Date Reported

Kyle T. Gross
Laboratory Director

ATLANTIC ENV.
9912000141

*** Environmental Science Corporation ***
*** Method Blank ***
Method: 8021 - 601/602

Date: 12/17/99 Matrix: Aqueous/Solid Units: µg/L

Compound Name	Result
Benzene	< 1.0
Bromobenzene	< 1.0
Bromochloromethane	< 1.0
Bromodichloromethane	< 1.0
Bromoform	< 1.0
Bromomethane	< 1.0
n-Butylbenzene	< 1.0
sec-Butylbenzene	< 1.0
tert-Butylbenzene	< 1.0
Carbon Tetrachloride	< 1.0
Chlorethane	< 1.0
2-Chloroethylvinylether	< 5.0
Chlorobenzene	< 1.0
Chloroform	< 1.0
Chloromethane	< 1.0
2-Chlorotoluene	< 1.0
4-Chlorotoluene	< 1.0
Dibromochloromethane	< 1.0
1,2-Dibromo-3-chloropropane	< 1.0
1,2-Dibromoethane	< 1.0
Dibromomethane	< 1.0
1,2-Dichlorobenzene	< 1.0
1,3-Dichlorobenzene	< 1.0
1,4-Dichlorobenzene	< 1.0
Dichlorodifluoromethane	2.4
1,1-Dichloroethane	< 1.0
1,2-Dichloroethane	< 1.0
1,1-Dichloroethene	< 1.0
cis-1,2-Dichloroethene	< 1.0
trans-1,2-Dichloroethene	< 1.0
1,2-Dichloropropane	< 1.0
1,3-Dichloropropane	< 1.0
2,2-Dichloropropane	< 1.0
1,1-Dichloropropene	< 1.0
cis 1,3-Dichloropropene	< 1.0
trans 1,3-Dichloropropene	< 1.0