EAGLE Environmental, Inc.

- Industrial Hygiene / IAQ
- Hazardous Building Materials
- Environmental Assessments
- Laboratory Services & Training

October 30, 2018

Mr. Ronald Turner
Town of East Haddam
Director of Operations
26 Plains Road, P.O. Box 401
Moodus, Connecticut 06469

RE: Phase III Environmental Site Investigation
And Remedial Action Plan
Former Town Garage, River House and Town Offices
1 and 7 Main Street
East Haddam, Connecticut
Eagle Project No. 18-144.10T1

Dear Mr. Turner,

This letter report summarizes a Phase III Remedial Investigation (RI) and Remedial Action Plan (RAP) completed by Eagle Environmental, Inc. (Eagle) at the Former Town Garage property located at 1 and 7 Main Street (Former Town Hall) in East Haddam, Connecticut (the "Site"). The Phase III RI was completed to assess the degree and extent of a release of oil and hazardous materials at the Site. The RAP was developed to assess remedial options for the reuse of the Site for commercial use.

Please do not hesitate to contact us at (860) 589-8257 if you have any questions or require more information.

Sincerely,
EAGLE ENVIRONMENTAL, INC.

Jeffery J. Duigou, LEP
Vice President of Environmental Sciences

\\Eaglesvr\public\2018 Files\2018 Reports\East Haddam, Town of\Phase III_RAP\1 Main Street - Phase III Report.docx

EXECUTIVE SUMMARY

Eagle Environmental, Inc. (Eagle) has completed a Phase III Remedial Investigation (RI) and developed a Remedial Action Plan (RAP) for 1 and 7 Main Street (the "Site") located in East Haddam, Connecticut. The Site currently operates as a storage facility for the Town of East Haddam, the River House formerly used as offices and a resident State Trooper, and the Former Town Hall Building. Historically, the Site operated as the former CT DOT maintenance facility for support of the East Haddam swing bridge, CT DOT operations and maintenance of vehicles, and the East Haddam Coal and Lumber Company.

The purpose of the Phase III RI is to determine the degree and extent of regulated compounds that may have resulted from releases of oil and/or hazardous substances at each of the Areas of Concern (AOCs) identified in the Conceptual Site Model (CSM) developed for the Site. This information was then used to develop remedial options for the future reuse of the Site. Eagle understands the future reuse of the Site may include demolition of the town garage building for redevelopment of the Site into a mixed residential/commercial use.

The activities conducted as part of the Phase III RI study included the advancement of eleven (22) soil borings (B1 through B11 and B101 through B111), sampling of seven (7) groundwater monitoring wells (MW-2 and W-1 through W-6) and the collection and analysis of soil and groundwater samples. Soil samples were analyzed for Volatile Organic Compounds (VOCs) by EPA Method 8260, Extractable Total Petroleum Hydrocarbons (ETPH) by the Connecticut Department of Energy and Environmental Protection (CTDEEP) Method, Polychlorinated Biphenyls (PCBs) by Soxhlet SW3540C, RCRA 8 Total Metals by EPA Method Series 6000/7000, leachable RCRA 8 metals by the Synthetic Precipitation Leaching Procedure (SPLP), and Groundwater samples were analyzed for VOCs, ETPH, and dissolved RCRA 8 metals. Refer to ***Figure SP-1*** for the location of the Areas of Concern (AOCs) which were investigated.

At AOC1 (Former Floor drain area North of Garage), arsenic is present above the RSR residential and industrial commercial criteria at a depth of 4 to 6 ft.

At AOC2 (Floor Drains, former Blacksmith Shop, former Historical Storehouse, and Mechanical Shop in the Garage), arsenic, cadmium, and chromium exceeds the residential and industrial commercial criteria at a depth of 0 to 4 ft. Leachable lead by SPLP exceeds the GA PMC at 2.0 ft. to 4.0 ft.

At AOC3 (Arsenic Release Area), arsenic is present above the RSR residential and industrial commercial criteria at a depth of 4 to 6 ft.

At AOC4 (Former 1,000-gallon heating oil UST), ETPH was detected below applicable RSR criteria. Leachable lead was detected above the GA PMC at 2.0 ft. to 4.0 ft.

At AOC 6 (Former Lumber Yard Wood Product Storage Area), arsenic is present above applicable RSR criteria but below the site specific BTV of 17.12 mg/kg.

At AOC 7 (Former Heating Oil UST located at 7 Main Street adjacent to MW-3 and the former storage building), a release of constituents of petroleum were not detected.

At AOC 8 (Former Gasoline UST), a release of constituents of petroleum was not detected.

Constituents of concern (VOCs, ETPH, and dissolved RCRA 8 metals) for the Phase III RI were not detected above applicable RSR criteria in groundwater. Groundwater was resampled at AOC 5 to verify no impact to the Site exists due to the removal of the gasoline UST at 1 Main Street.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

Based on the results of the Phase III RI, remedial options for the Site are presented as follows and are based on the reuse of the Site for mixed residential/commercial use. Eagle reviewed the a redevelopment plan "East Haddam Village Proposed Site Plan Scheme C" by Fellner Associates, Inc., of Higganum, Connecticut as a basis to develop remedial strategies for the Site. This redevelopment Plan is presented as ***Figure REM-1***.

- Remedial Option No. 1 - The garage building remains in place to be renovated for commercial use: Remove soil adjacent to the building at AOC 4 to remediate lead which exceeds the GA PMC. Conduct post remediation and compliance groundwater monitoring. Place an environmental land use restriction (ELUR) on the land record for addressing soil that exceeds applicable RSR criteria at AOC 2.

- Remedial Option No. 2 – The garage building is demolished and the concrete slab removed from the Site: Remove metals impacted soil located under the floor slab within the garage and lawfully dispose of the soil off-site. Place/reuse arsenic fill from the area of B106 to in the excavation and compact and render inaccessible with placement under pavement and an ELUR. Conduct post remediation and compliance groundwater monitoring.

- Remedial Option No. 3 – Removal of Arsenic Impacted soils at and adjacent to proposed On-Site Buildings: The areas which will require remediation and stockpiled on-Site for reuse of the arsenic impacted soil from at and adjacent to B101, B102, B103, B104, and B105. The excavated soils from these areas of the Site will be rendered environmentally isolated with an ELUR in the Green Space area south of the River House. Soil would need to be excavated in an approximate 600 sq. ft. area to a depth of 4 ft. and stockpiled. Two feet of arsenic impacted soil would be placed at a depth of 4 ft. to 2 ft. and a non-woven geotextile fabric placed over the material. The excavation would then be back filled to grade with the previous material excavated from this area of the Site. Any additional arsenic impacted soil excavated from the project area would be place under buildings, hardscape, and sidewalks, and pavement in accordance with the RSR. The Site would require an ELUR documenting where arsenic impacted soil was reused and the ELUR would be required to be placed onto the land record.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

1.0 INTRODUCTION AND BACKGROUND

1.1 Introduction

Eagle Environmental, Inc., (Eagle) performed a Phase III Remedial Investigation (RI) on the property located at 1 and 7 Main Street in East Haddam, Connecticut (the "Site") on June 16, 21, and 22, 2018. The purpose of the Phase III RI is to determine the degree and extent of regulated compounds that may have resulted from releases of oil and/or hazardous substances at each of the Areas of Concern (AOCs) identified in the Conceptual Site Model (CSM) developed for the Site. This information was then used to develop remedial options for the future reuse of the Site. Eagle understands the future reuse of the Site may include demolition of the town garage building in preparation for future Site redevelopment for residential/commercial use of the Site.

The Phase III RI was conducted to be in general conformance with the following: the CTDEEP Remediation Standard Regulations (RSRs), the CTDEEP's September 2007 Site Characterization Guidance Document (SCGD) revised December 2010, and the Significant Environmental Hazard Condition Notification Statute established by the CTDEEP. The Phase III RI work scope was based on a Preliminary Conceptual Site Model (CSM) that was developed for the Site. The results of our Phase III RI and regulatory compliance are discussed in this report.

1.2 Preliminary Conceptual Site Model (CSM)

1.2.1 Site Description

The 2.5-acre Site is located at 1 and 7 Main Street in East Haddam, Connecticut. The Site currently operates as a minor storage facility for the Town of East Haddam (1 Main Street). Historically, the Site operated as the former town garage and the "River House" which housed a resident state trooper. The building located at 7 Main Street was used for Town offices. The building was historically used as offices for the East Haddam Coal & Lumber, as well as, Town Offices.

The Site is accessed via two (2) asphalt paved driveway entrances off the north side of Main Street into three (3) parking areas of asphalt, concrete, or gravel. The River House is a two-story 2,054 sq. ft. of living space wood framed building. The Town Garage is a single-story 7,960 square foot slab-on-grade brick and wood framed building with a pitched roof. The Town office building consists of a 1.75-story 3,328 sq. ft. building. The subject Site slopes moderately lower to the south and is located at an elevation of approximately 30.0 feet above mean sea level. A site location map is included as ***Figure SL-1*** and a site plan is included as ***Figure SP-1***. The Site is located in a mixed residential and commercial area, abutted by residential housing to the north, the Connecticut River to the west, Goodspeed Opera House to the south, and several commercial properties to the east.

The geographic coordinates for the Site are as follows:

Latitude/Longitude:	41° 27' 9.1" N
	72° 27' 44.0" W
UTM Coordinates:	X: 711973 Y: 4592104

1.2.2 Area Receptors

The Connecticut River abuts the Site to the west, approximately 15.0 feet from the Site property. Groundwater at the Site flows south/south east towards the Connecticut River and ultimately into Long Island Sound. Surficial releases of regulated substances on-Site will infiltrate into the subsurface and/or sheet flow during storm events into multiple street catch basins located south of the Site property.

1.2.3 Geology

According to the "Bedrock Geological Map of the Connecticut," (Rodgers, 1985). The bedrock underlying the Site is described as Hebron Gneiss. This formation consists of interlayered dark-gray schist and greenish-gray, fine to medium grained calc-silicate gneiss.

1.2.5 Groundwater and Surface Water Classification

According to the CT DEEP Water Quality Classifications Map of Connecticut (2015), the Site is in a Class GA, GAA groundwater area that may not meet current standards. Class GA, GAA groundwater is suitable for direct human consumption without prior treatment if groundwater standards are met.

1.2.6 Hydrogeology

Groundwater flow direction is to the south/southeast towards the Connecticut River which abuts the Site parcel to the west. The Connecticut River is tidally influenced and generally flows south into Long Island Sound.

1.2.7 Previous Studies

Previous environmental investigation reports are presented in ***Appendix A***.

Eagle reviewed draft "Environmental Site Assessment" dated December 12, 2000 prepared by Land-Tech. The following are conclusions and recommendations based on the completed ESA:

- Land-Tech completed a limited subsurface exploration consisting of the drilling of four (4) borings (MW-1-MW-4) and the installation of three (3) groundwater monitoring wells (MW-1-MW-3);
- Soil samples between 5-7 feet below ground surface were collected and analyzed for volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), and RCRA 8 total metals (RCRA 8 TM);
- TPH, Arsenic, Barium, Chromium, and Lead were detected above laboratory reporting limits but did not exceed the CT Remediation Standard Regulations (RSRs);
- Groundwater samples were collected from the three (3) monitoring wells and analyzed for VOCs, TPH, RCRA 8 TM, and pesticides;
- TPH, Toluene, Chloroform, Arsenic, Barium, Chromium, and Lead were detected in groundwater at the Site above laboratory reporting limits. TPH in MW-1 and MW-2 exceeded the Groundwater Protection Criteria (GWPC) established by the RSRs. Arsenic in MW-1 and MW-2 exceeded the Surface Water Protection Criteria (SWPC) established by the RSRs. Chromium in MW-1 and MW-2 exceeded the GWPC. Additionally, Lead in MW-2 exceeds the GWPC and the SWPC; and,

- Land-Tech recommended re-sampling of the wells due to potential impacts of silt in the groundwater samples.

Eagle reviewed a "Phase I Environmental Site Assessment" report dated March 2002 prepared by Shanahan Consulting. The following are conclusions based on the completed Phase I ESA:

- From 1911 to 1973, the property at 1 Main Street (Town Garage) was utilized by the CT DOT as a maintenance fleet garage and to support the maintenance and operation of the East Haddam swing bridge. Paint waste was likely generated during that time period along with waste associated with vehicle maintenance (waste solvents, oils, grease). From 1973 to 2000, the Town of East Haddam used the garage for vehicle storage. From 2000 to present the garage was used for storage of vehicles and various Town of East Haddam Department's for storage (i.e. parks and recreation, fire department).

- From 1874 to 1936, 7 Main Street was used as a residence. From 1939 to 1957, the property was occupied by the Consolidated Building Materials Company and later by East Haddam Coal and Lumber Company. The Town of East Haddam rented some office space on the second floor of the former residence. From 1957 to present the former residence operated as the East Haddam Town Hall.

- Six (6) former or current underground tanks. Of the six (6) tanks, two (2) were apparently removed from the locations west of the garage building (UST#1, UST#2), two (2) remain in the ground east of the garage (UST #3, UST#4), one (1) is a suspected tank outside the storage building at 7 Main Street (marked by a vent pipe) (UST#5), and one (1) was removed in January 2000 from between the town hall and storage building (UST#6). No soil testing of the graves of the removed tanks has been reported. Monitor wells installed near UST#1 and UST#6 suggests that significant contamination may not be present at these tank locations. A seventh tank, installed in 2001 adjacent to the DOT generator building, does not appear to pose a significant contamination threat due to its recent age and reported double walled design;

- Garage floor drains with unknown discharge locations. The drains have reportedly been sealed. One of the drains reportedly discharges to the local storm drainage system, but the discharge locations of the remaining drains are uncertain and may pose a threat of oily discharges to the ground;

- The possible storage or dumping of oils and/or hazardous substances at the garage building by the DOT or the Town of East Haddam. The east central portion of the building, covered by a circa 1950 addition, could have served as a historical storage or dumping area;

- A former septic system that served both the River House and the garage building. The septic system may have received oily wastes from the garage. It was not anticipated the former septic system behind the town hall received significant amounts of oils or chemicals and this septic system does not appear to pose a significant risk of subsurface contamination;

- The presence of an unknown blue residue (possibly paint flakes) on the ground behind the northeast corner of the storage building at 7 Main Street. The blue residue appeared to cover an area approximately 8 feet by 3 feet in size. An oily stain off the northern edge of

the gravel lot behind the building appeared to be surficial in nature and is not considered significant;

- A pump of unknown purpose (possibly to dispense fuel) shown on a 1932 map on the 1 Main Street property adjacent to Main Street; and,

- A former aboveground waste oil tank and former and current aboveground heating oil tanks. The waste oil tank reportedly included a built-in containment basin, reducing the risk of spills to the ground. We did not observe evidence of spills on the ground near the reported tank locations. In general, the aboveground tanks do not appear to pose a significant risk of subsurface contamination.

Based on the conclusions, Shanahan Consulting provided the following recommendations:

- Consult with an attorney regarding the applicability of the Transfer Act particularly for the 1 Main Street property;
- Address suspect asbestos pipe insulation in town hall basement;
- Complete a magnetometer survey for underground tanks;
- Excavate and remove underground tanks;
- Perform an Elevation Survey of Monitor Wells;
- Perform a soil vapor survey/soil sampling under the garage floor; and
- Perform a Phase III Environmental Site Assessment.

Eagle reviewed a "Phase II & Phase III Environmental Site Assessment and Remedial Actions" report dated June 2005 prepared by Shanahan Consulting. The following are conclusions based on the completed Phase II & Phase III ESA:

- Work performed on-Site and remediation efforts included:
  - Removal of three (3) underground tanks, including the excavation and disposal of approximately 121 tons of petroleum-contaminated soils associated with two (2) of the tanks;
  - The drilling of 39 soil borings;
  - Installation of six (6) overburden monitor wells;
  - Collection and test screening of 79 soil samples;
  - Measurement of VOCs in soil gas at 19 locations under the garage floor;
  - Laboratory testing of 66 soil samples and eight (8) groundwater samples; and
  - Removal of approximately 245 additional tons of arsenic-contaminated soils east of the garage and metal-contaminated soils behind town hall in a supplemental remediation effort.

The table below summarizes Shanahan Consulting assessment of potential areas of concern. Assigned AOCs related to this Phase III Remedial Investigation (RI) are discussed later in this report.

Areas of Concern 1 & 7 Main Street, East Haddam, CT	
Area of Concern	Evaluation
Blue Residue on Ground Surface Behind Town Hall (7 Main Street property)	Analysis of soil containing the blue residue revealed elevated concentrations of mercury and lead. A soil remediation effort was completed in July 2004 and samples of soil left in place after cleanup met soil remediation criteria. **No Further Investigation Required.**

Areas of Concern 1 & 7 Main Street, East Haddam, CT	
Area of Concern	Evaluation
Possible Storage of Copper Chromate Arsenate (CCA) wood product and coal on the north end of the 7 Main Street property (7 Main Street)	The 7 Main Street property was used by East Haddam Coal and Lumber Company from 1939 to 1957. There may have been impact at the Site due to leaching of CCA wood product and/or leaching od arsenic to the ground from the storage of coal on the northern portion of the Site. **Additional Investigation Required.**
Former Underground Gasoline Tank behind Town Hall (7 Main Street)	The tank was reportedly removed in January 2000. Tests of soil samples from the reported area did not reveal evidence of a release. A groundwater sample from monitor well MW-3 in the area of the tank did not contain ETPH or VOCs. **Additional Investigation Required.**
Former Underground Gasoline Tank and Pump Outside Eastern Wall of Garage (1 Main Street)	The former tank and petroleum-contaminated soils were removed in 2002. A supplemental soil remediation effort was performed on three (3) dates in the summer of 2004 in an unsuccessful attempt to remove the arsenic soil contamination. Post-cleanup explorations indicate that arsenic contamination remains in the area estimated at 500 square feet over a depth interval approximately 3-6 feet below the ground surface. **No Further Investigation Required.**
Former Underground Heating Oil Tank Outside Eastern Wall of Garage (1 Main Street)	The former tank and associated contaminated soils were removed in 2002. Post-excavation soil samples met remediation. **Further Arsenic Evaluation Required.**
Unknown Pump on 1932 Map in Southeastern Corner of Site (1 Main Street)	Contamination was not detected in soil samples collected in boring TG5 drilled to the water table in the area of the pump. **No Further Investigation Required.**
Possible Former Underground Heating Oil Tank Between Garage and Former Storage Building Behind Town Hall (7 Main Street)	ETPH was not detected in soil samples collected at the water table in two (2) borings drilled in the area where a vent pipe terminated underground. **No Further Investigation Required.**
Inactive Septic System and Well MW-1 Area (1 Main Street)	Six (6) borings drilled to the apparent bedrock surface did not encounter evidence of contamination. Laboratory tests of seven (7) soil samples for ETPH and two (2) soil samples for VOCs did not detect

	contaminants. Groundwater from MW-1 did not contain ETPH or VOCs. **No Further Investigation Required.**
Areas of Concern 1 & 7 Main Street, East Haddam, CT	
Area of Concern	Evaluation
Former Underground Gasoline Tank and Former Aboveground Gasoline Tank West of Garage (1 Main Street)	The underground gasoline tank was removed in 2002. The aboveground gasoline tank was reportedly removed in the mid-1990s. Tests of soil samples collected from the underground tank grave did not detect evidence of a spill. **No Further Investigation Required.**
Former Aboveground Heating Oil Tank Outside Eastern Wall of Garage (1 Main Street)	During soil remediation of a nearby underground gasoline tank, soil in the area of the former aboveground tank was excavated and removed, including a limited area of oily soils apparently associated with the former aboveground tank. Post excavation soil samples did not contain ETPH, VOCs, PCBs, or significant concentrations of lead. **No Further Investigation Required.**
Pavement Patch for Former Underground Gasoline Tank and Pump Outside Southwestern Corner of Garage (1 Main Street)	Although a petroleum odor was noted in one (1) soil sample, the testing of six (6) soil samples did not detect aromatic VOCs or concentrations of lead over remediation criteria. The testing of groundwater from W-2 and MW-2 adjacent to the pavement patch did not detect VOCs or ETPH. **No Further Investigation Required.**
Underground Diesel Fuel Tank at DOT Generator Building	The underground tank is located on a land easement granted to the State of Connecticut and was not directly evaluated for leakage. **No Site Access, Not as part of this Phase III RI**

Areas of Concern 1 & 7 Main Street, East Haddam, CT	
Area of Concern	Evaluation
Floor Drainage Systems in Garage (1 Main Street)	Observations and soil testing at an apparent floor drainage dry well outside the eastern wall of the garage revealed no evidence of contamination from the southern floor drains. No evidence of contamination at the inactive septic system was found. No contamination was detected in a soil sample collected in a paved drainage ditch that may have received the floor drainage discharges. A minor petroleum spill was detected under the garage floor near one of the central floor drains, but no contaminants were detected in soils above remediation criteria. **Additional Investigation Required.**
Areas Under Garage Floor (1 Main Street)	The area under the garage floor was evaluated using a soil gas survey and the drilling of seven (7) borings through the floor slab. Soil samples collected under the floor did not contain contaminants above remediation criteria. An apparent minor petroleum spill was detected under the floor near one floor drain (see above discussions of floor drainage systems). **Additional Investigation Required.**

Based on the conclusions Shanahan Consulting provided the following recommendations based on the completed Phase II & III ESA:

- Address remnant arsenic-contaminated soils east of garage;
- Monitor ground water; and
- Evaluation of Underground Diesel Fuel Tank on State Easement.

The remainder of this report will reference the previously identified Area of Concerns (AOCs) as well as areas requiring additional investigation to comply with the CTDEEP Site Characterization Guidance Document (SCGD). The AOCs for the Site are summarized in ***Section 3.0***.

1.2.8 Constituents of Concern

Based on the historic use of the Site, the presence of a release of the following constituents of concern (COCs) were assessed during this investigation:

- Volatile Organic Compounds (VOCs);
- Extractable Total Petroleum Hydrocarbons (ETPH);
- Polychlorinated Biphenyls (PCBs);
- RCRA 8 Total Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver); and,
- Leachable RCRA 8 Metals by the Synthetic Precipitation Leaching Procedure (SPLP).

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

2.0 REGULATORY FRAMEWORK

2.1 Remediation Standard Regulations

The CTDEEP has developed the RSRs, Sections 22a-133k-1 through 3 of the Regulations of the Connecticut State Agencies (RCSA), that specify the allowable levels of regulated compounds in soil and groundwater for both GA (groundwater presumed drinkable without treatment) and GB (presumed unsuitable for drinking without treatment) groundwater classification areas. The RSRs are typically used for all sites undergoing environmental investigations as a baseline to evaluate a site's potential environmental liability. However, RSRs only legally apply to sites that are under order from the CTDEEP to perform remediation, are considered a Hazardous Waste Establishment as defined by the Connecticut Property Transfer Law, or are undergoing voluntary remediation where verification by the CTDEEP or an LEP is required. Since the Site is not currently in one of the above programs, the RSRs are being used herein as guidance on this project.

2.2.1 Soil Criteria

The RSRs define two criteria that apply to soil: the Direct Exposure Criteria (DEC) and the Pollutant Mobility Criteria (PMC). The DEC defines the maximum level of regulated compounds allowed in soil to a depth of 15 feet below ground surface (bgs) without posing a threat due to direct human exposure, while the PMC sets the maximum level of regulated compounds allowed in soil above the water table without posing a threat to groundwater quality. Each criterion is further divided into two categories; the DEC is based upon Site usage (i.e. Residential or Industrial/Commercial use), while the PMC is based on the groundwater classification (i.e. GA/GAA or GB). The Site is located in a GA, GAA groundwater classification area and therefore would be required to meet the GA PMC.

The Residential DEC (RDEC) must be met if a Site is to be used for residential purposes. The CTDEEP and the RSRs define "residential activity" to include any activity related to a residence or dwelling, or to a school, hospital, day care center, playground, or outdoor recreation area. If a Site or property is not to be used for residential purposes, then the Industrial/Commercial DEC may be met if an Environmental Land Use Restriction (ELUR) is filed for the Site. The ELUR would limit the Site to industrial or commercial usage.

The DEC does not apply if soil meets the definition of "inaccessible" and the PMC does not apply if soil meets the definition of "environmentally isolated". In either case, an ELUR is required.

Soil can be rendered "inaccessible" if the impacted soil is covered by four feet of clean fill (non-polluted material), or covered by two feet of clean fill and a minimum of three inches of asphalt, or covered by a building or other permanent structure. Soils that are isolated beneath a building or other impermeable structure may be considered "environmentally isolated", such that with the use of an ELUR, the PMC does not apply. Pavement is not considered impermeable and cannot be used to render soil environmentally isolated.

Additionally, the RSRs provide certain exceptions and variances with regard to polluted fill when specific criteria are met for the Site. Moreover, the RSRs also provide several self-implementing options for assessment and remediation of regulated compounds in soil.

2.2.2 Groundwater Criteria

The RSRs define three criteria that apply to groundwater: the Groundwater Protection Criteria

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

(GWPC), the Surface Water Protection Criteria (SWPC), and the Volatilization Criteria (VC). The GWPC defines the maximum levels of regulated compounds allowed in groundwater for protection of the groundwater as a potable water source. The GWPC applies to Sites located in a GA groundwater quality area. The Site is located in a GA, GAA groundwater area; therefore, the GWPC apply at the Site.

The SWPC applies to impacted groundwater that is discharging to a surface water body, including wetlands, streams, rivers, ponds, lakes and Long Island Sound. One standard has been set for all surface water bodies, regardless of quality classification. The SWPC specifies the levels of compounds allowable in groundwater just prior to discharging into surface water. For sites without surface water nearby, compliance with the SWPC is based on the average plume concentration across the site. The RSRs also allow the evaluation of an alternative SWPC, based on available dilution in the receiving water body. Groundwater from the Site discharges an unnamed tributary of the Bantam River; the Site must comply with the SWPC. The VC sets the allowable levels of VOCs in groundwater that is less than 15 feet bgs. The VC is designed to protect humans from exposure to VOCs present in shallow groundwater. Residential and industrial/commercial VC have been established, with the residential VC being more stringent, and the industrial/commercial VC requiring the use of an ELUR. The VC may not have to be met if monitoring of soil vapor above the water table or indoor air quality demonstrates that there is no exposure hazard. The Site must comply with the Residential VC because there is no ELUR for the Site.

3.0 PHASE III SITE INVESTIGATION

3.1 Phase III Remedial Investigation Project Approach

Eagle conducted a Phase III RI to evaluate the Areas of Concern (AOCs) identified below. Based on the findings of the Phase I, II & III environmental site investigations previously performed and taking cognizance of the CTDEEP Site Characterization Guidance Document (SCGD), Eagle developed a Preliminary Conceptual Site Model for the Site. Based on site history discussed in greater detail in ***Section 1.2.7***, COCs may exist in the vicinity of the following AOCs:

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

Conceptual Site Model		
AOC Number	Name	**AOC Location**
1	Former Floor Drain Area North of the Garage	Northwest of former town garage building
2	Former Floor Drains in Garage, Blacksmith Shop, Historic Storehouse, and Mechanical Shop	Along east and southern areas within the former town garage
3	Arsenic Release Area	Northeast of former town garage
4	Former 1,000-gallon UST	East of the former town garage
6	Former Lumber Yard Wood Product Storage North of the 7 Main Street Property	North end of the current parking lot behind Town Hall
7	Former Underground Heating Oil Tank Adjacent to the Former Storage Building north of the Town Hall	North of the Town Hall west of monitoring well MW-3
8	Former 1,000-gallon gasoline UST located adjacent to the storage building behind Town Hall	North of the Town Hall

In addition to the above referenced AOCs, an investigation of site-specific background arsenic concentrations was conducted on 1 and 7 Main Street. No addition soil samples were taken at AOC 5. Compliance was monitored by resampling the groundwater well at this AOC.

3.2 Soil Boring and Groundwater Monitoring Well Installation

On June 21 and 22, 2018 and October 10, 2018 Kropp Environmental Contractors, Inc. of Lebanon, Connecticut mobilized a track-mounted Geoprobe 7822DT rig to the Site. Geoprobe test borings were advanced to a depth of 4 to 16 ft. Test borings were monitored by Eagle and soil conditions were logged in the field. Soil boring logs are presented in ***Appendix B.*** A summary table detailing the test boring locations and corresponding AOCs are presented below:

Area of Concern	Soil Boring ID
1	B1
	B2
	B3

Area of Concern	Soil Boring ID
	B10
2	B11
	HA-1
	HA-2
	HA-3
3	B4
	B5
	B6
	B7/B7A
4	B8
	B9
6	B101
	B102
7	B109
	B110
	B111
8	B107
	B108

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

Refer to ***Figure SP-1*** for the soil test boring and previously installed groundwater monitoring well locations. Soils samples were collected at test borings B102 through B106 were conducted to develop a site-specific background threshold value (BTV) for arsenic. Soil samples were collected from each test boring and placed into glass containers and preserved in accordance with analytical methods. Soil samples collected were headspace screened in the field for total volatile organic compounds (VOCs) using a photoionization detector (PID). Groundwater was observed in the test borings ranging from a depth of 8.0 ft. to 10.0 ft. Based on visual and/or olfactory evidence of potential impacts, depth to groundwater, and headspace screening results, selected soil samples and three (3) blind duplicates (No. 06211821012 duplicate of soil sample B2 S6, No. 062218324 duplicate of soil sample HA-3 S2, and No. 101018111911 duplicate sample of soil sample B111 S5) for quality control/quality assurance (QA/QC) purposes were submitted for analysis to a Connecticut-certified laboratory for Volatile Organic Compounds (VOCs) by EPA Method 8260, Extractable Total Petroleum Hydrocarbons (ETPH) by the Connecticut Department of Energy and Environmental Protection (CTDEEP) method, Polychlorinated Biphenyls (PCBs) by Soxhlet SW3540C, RCRA 8 Total Metals by EPA Method Series 6000/7000, and leachable RCRA 8 metals by the Synthetic Precipitation Leaching Procedure (SPLP).

3.3 Groundwater Monitoring

On June 14, 2018, Eagle collected groundwater from seven (7) previously installed monitoring wells after the wells were developed. Groundwater samples were collected using EPA low flow sampling methodology, placed into the appropriate containers, and preserved in accordance with analytical methodology. Seven (7) groundwater samples and one (1) blind duplicate (groundwater sample No. W-D3 duplicate of groundwater sample W-4) for QA/QC purposes were submitted to a Connecticut-certified laboratory for VOCs by EPA Method 8260, ETPH by the CTDEEP ETPH Method, and dissolved RCRA 8 metals by EPA Method Series 6000/7000.

Groundwater was observed from 6.0 ft. to 12.0 ft. from the top of PVC casing prior to collecting groundwater at the Site.

4.0 SITE INVESTIGATION ANALYTICAL RESULTS

4.1 Laboratory Reasonable Confidence Protocols

Soil analytical results are presented in ***Appendix C.*** Groundwater analytical results are presented in ***Appendix D***. A review of the laboratory narratives for the soil and groundwater indicates that no significant bias has been observed with the data. The data is usable.

4.1.1 Soil Analytical Results

Soil analytical results are summarized in ***Table I and Table 2***. Applicable CTDEEP Remediation Standards are presented on the table for informational purposes and to assess if a release has occurred to soil at the Site. A summary of all of the soil results collected to date organized by AOC and COC is presented below.

Volatile Organic Compounds (VOCs)

- AOC-1 Former Floor Drain Area North of the Garage:
  - VOCs were not detected above the laboratory reporting limit (RL) (mg/kg) for each of the six (6) soil samples analyzed.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

Refer to ***Figure SP-1*** for the soil test boring and previously installed groundwater monitoring well locations. Soils samples were collected at test borings B102 through B106 were conducted to develop a site-specific background threshold value (BTV) for arsenic. Soil samples were collected from each test boring and placed into glass containers and preserved in accordance with analytical methods. Soil samples collected were headspace screened in the field for total volatile organic compounds (VOCs) using a photoionization detector (PID). Groundwater was observed in the test borings ranging from a depth of 8.0 ft. to 10.0 ft. Based on visual and/or olfactory evidence of potential impacts, depth to groundwater, and headspace screening results, selected soil samples and three (3) blind duplicates (No. 06211821012 duplicate of soil sample B2 S6, No. 062218324 duplicate of soil sample HA-3 S2, and No. 101018111911 duplicate sample of soil sample B111 S5) for quality control/quality assurance (QA/QC) purposes were submitted for analysis to a Connecticut-certified laboratory for Volatile Organic Compounds (VOCs) by EPA Method 8260, Extractable Total Petroleum Hydrocarbons (ETPH) by the Connecticut Department of Energy and Environmental Protection (CTDEEP) method, Polychlorinated Biphenyls (PCBs) by Soxhlet SW3540C, RCRA 8 Total Metals by EPA Method Series 6000/7000, and leachable RCRA 8 metals by the Synthetic Precipitation Leaching Procedure (SPLP).

3.3 Groundwater Monitoring

On June 14, 2018, Eagle collected groundwater from seven (7) previously installed monitoring wells after the wells were developed. Groundwater samples were collected using EPA low flow sampling methodology, placed into the appropriate containers, and preserved in accordance with analytical methodology. Seven (7) groundwater samples and one (1) blind duplicate (groundwater sample No. W-D3 duplicate of groundwater sample W-4) for QA/QC purposes were submitted to a Connecticut-certified laboratory for VOCs by EPA Method 8260, ETPH by the CTDEEP ETPH Method, and dissolved RCRA 8 metals by EPA Method Series 6000/7000.

Groundwater was observed from 6.0 ft. to 12.0 ft. from the top of PVC casing prior to collecting groundwater at the Site.

4.0 SITE INVESTIGATION ANALYTICAL RESULTS

4.1 Laboratory Reasonable Confidence Protocols

Soil analytical results are presented in ***Appendix C.*** Groundwater analytical results are presented in ***Appendix D***. A review of the laboratory narratives for the soil and groundwater indicates that no significant bias has been observed with the data. The data is usable.

4.1.1 Soil Analytical Results

Soil analytical results are summarized in ***Table I and Table 2***. Applicable CTDEEP Remediation Standards are presented on the table for informational purposes and to assess if a release has occurred to soil at the Site. A summary of all of the soil results collected to date organized by AOC and COC is presented below.

Volatile Organic Compounds (VOCs)

- AOC-1 Former Floor Drain Area North of the Garage:
  - VOCs were not detected above the laboratory reporting limit (RL) (mg/kg) for each of the six (6) soil samples analyzed.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

- AOC-2 Former Floor Drains in Garage, Blacksmith Shop, Historic Storehouse, and Mechanical Shop:
  - VOCs were not detected above the laboratory RL (mg/kg) for each of the six (6) soil samples analyzed.

- AOC 7 Former Heating Oil UST
  - VOCs were not detected above the laboratory RL (mg/kg) for each of the six (6) soil samples analyzed.

VOCs were not detected in duplicate soil sample 06211821012, 062218324, or 101018111911 above the laboratory RL.

Extractable Total Petroleum Hydrocarbons (ETPH)

- AOC-1 Former Floor Drain Area North of the Garage:
  - ETPH was not detected above the laboratory RL for each of the six (6) soil samples analyzed,

- AOC-2 Former Floor Drains in Garage, Blacksmith Shop, Historic Storehouse, and Mechanical Shop:
  - ETPH was not detected above the laboratory RL for each of the six (6) soil samples analyzed. An elevated RL (<260) was reported for B11S2. The RL was below applicable RSR cleanup criteria.

- AOC-4 Former 1,000-gallon UST:
  - B9S5 (8.0-10.0 ft.):
    - ETPH (280 mg/kg) was detected above the laboratory RL but below applicable RSR criteria. This concentration represents the limit of the sidewall of the UST excavation.
- AOC 8 Former 1,000-gallon gasoline UST
  - ETPH was not detected above the laboratory RL for each of the six (6) soil samples analyzed. The Duplicate sample 101018111911 for B111S5 (9.0-11.0 ft.) was also not detected above the laboratory RL.

Polychlorinated Biphenyls (PCBs)

- AOC-1 Former Floor Drain Area North of the Garage:
  - PCBs were not detected above the laboratory RL for each of the six (6) soil samples analyzed.

- AOC-2 Former Floor Drains in Garage, Blacksmith Shop, Historic Storehouse, and Mechanical Shop:
  - PCBs were not detected above the laboratory RL for each of the six (6) soil samples analyzed.

RCRA 8 Total Metals

- AOC-1 Former Floor Drain Area North of the Garage:
  - B1S2 (2.0-4.0 ft.):
    - Arsenic (7.58 mg/kg) was detected above the laboratory RL.
    - Barium (39.6 mg/kg) was detected above the laboratory RL.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

- Chromium (30.4 mg/kg) was detected above the laboratory RL.
- Lead (7.53 mg/kg) was detected above the laboratory RL.

- B1S3 (4.0-6.0 ft.):
  - Arsenic (11.2 mg/kg) was detected above the laboratory RL and exceeds the Residential Direct Exposure Criteria (RES DEC) and Industrial/Commercial Direct Exposure Criteria (I/C DEC) RSR.
  - Barium (31.6 mg/kg) was detected above the laboratory RL.
  - Chromium (41.5 mg/kg) was detected above the laboratory RL.
  - Lead (3.3 mg/kg) was detected above the laboratory RL.

- B2S2 (2.0-4.0 ft.):
  - Arsenic (7.8 mg/kg) was detected above the laboratory RL.
  - Barium (26.0 mg/kg) was detected above the laboratory RL.
  - Chromium (30.4 mg/kg) was detected above the laboratory RL.
  - Lead (3.91 mg/kg) was detected above the laboratory RL.

- B2S3 (4.0-6.0 ft.):
  - Arsenic (11.9 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.
  - Barium (35.0 mg/kg) was detected above the laboratory RL.
  - Chromium (45.8 mg/kg) was detected above the laboratory RL.
  - Lead (3.34 mg/kg) was detected above the laboratory RL.

- B3S2 (2.0-4.0 ft.):
  - Arsenic (5.76 mg/kg) was detected above the laboratory RL.
  - Barium (55.6 mg/kg) was detected above the laboratory RL.
  - Chromium (26.0 mg/kg) was detected above the laboratory RL.
  - Lead (11.2 mg/kg) was detected above the laboratory RL.
  - Mercury (0.04 mg/kg) was detected above the laboratory RL

- B3S3 (4.0-6.0 ft.):
  - Arsenic (12.0 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.
  - Barium (34.9 mg/kg) was detected above the laboratory RL.
  - Chromium (46.5 mg/kg) was detected above the laboratory RL.
  - Lead (8.5 mg/kg) was detected above the laboratory RL.

- <u>AOC-2 Former Floor Drains in Garage, Blacksmith Shop, Historic Storehouse, and Mechanical Shop:</u>

  - B10S2 (2.0-4.0 ft.):
    - Arsenic (16.9 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.
    - Barium (65.5 mg/kg) was detected above the laboratory RL.
    - Cadmium (0.44 mg/kg) was detected above the laboratory RL.
    - Chromium (60.3 mg/kg) was detected above the laboratory RL.
    - Lead (35.7 mg/kg) was detected above the laboratory RL.

  - B11S2 (2.0-4.0 ft.):
    - Arsenic (42.2 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.
    - Barium (209 mg/kg) was detected above the laboratory RL.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

- Cadmium (5.23 mg/kg) was detected above the laboratory RL.
- Chromium (120 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.
- Lead (1840 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.

- HA-1S1 (0.0-2.0 ft.):
  - Arsenic (16.6 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.
  - Barium (3850 mg/kg) was detected above the laboratory RL.
  - Cadmium (2.63 mg/kg) was detected above the laboratory RL.
  - Chromium (301 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.
  - Lead (2190 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.

- HA-2S1 (0.0-2.0 ft.):
  - Arsenic (16.2 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.
  - Barium (90.4 mg/kg) was detected above the laboratory RL.
  - Chromium (72.1 mg/kg) was detected above the laboratory RL.
  - Lead (23.7 mg/kg) was detected above the laboratory RL.
  - Mercury (0.03 mg/kg) was detected above the laboratory RL.

- HA-2S2 (2.0-4.0 ft.):
  - Arsenic (14.7 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.
  - Barium (76.9 mg/kg) was detected above the laboratory RL.
  - Chromium (71.0 mg/kg) was detected above the laboratory RL.
  - Lead (30.1 mg/kg) was detected above the laboratory RL.
  - Mercury (0.03 mg/kg) was detected above the laboratory RL

- HA-3S2 (2.0-4.0 ft.):
  - Arsenic (8.01 mg/kg) was detected above the laboratory RL.
  - Barium (29.5 mg/kg) was detected above the laboratory RL.
  - Chromium (24.0 mg/kg) was detected above the laboratory RL.
  - Lead (4.39 mg/kg) was detected above the laboratory RL.

- <u>AOC-3 Arsenic Release Area:</u>
  - B4S2 (2.0-4.0 ft.):
    - Arsenic (3.9 mg/kg) was detected above the laboratory RL.

  - B4S3 (4.0-6.0 ft.):
    - Arsenic (12.5 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.

  - B5S2 (2.0-4.0 ft.):
    - Arsenic (3.04 mg/kg) was detected above the laboratory RL.

  - B5S3 (4.0-6.0 ft.):
    - Arsenic (15.8 mg/kg) was detected above the laboratory RL and exceeds the RES DEC and I/C DEC RSR.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

A statistical analysis was performed to identify background concentrations for arsenic at the Site. EPA's ProUCL Version 5.0 software was used to identify outliers in the metals data through graphical representation using Quantile-Quantile Plots. All arsenic data collected from the site, including non-detect data (represented by the laboratory Reportable Limit (RL)) was used in this initial analysis. Following is a brief description of the how the data was analyzed.

- Q-Q Plots – Q-Q plots are used to check the validity of a distributional assumption for a data set. In general, the basic idea is to compute the theoretically expected value for each data point based on the distribution in question. If the data follow the assumed distribution, the points on the Q-Q plot will fall approximately on a straight line.

The Q-Q Plots generated in ProUCL for arsenic are attached in ***Appendix E.*** All available statistical methods were selected for the analysis. The lowest 95th percentile value of a lognormally distributed data set calculated from all of the statistical methods was selected to represent background values. The Upper Limit/BTV analysis is attached. Based on removal of outlier data over 20 mg/kg, twice the CTDEEP RSR cleanup criteria, the site-specific BTV for the site is 17.12 mg/kg. This site specific BTV for total arsenic would require CTDEEP Commissioner approval prior to its use for determining remediation decisions for the Site.

4.1.3 Groundwater Analytical Results

Groundwater analytical results are summarized in ***Table III***. Analytical results are presented in ***Appendix F.*** Applicable CTDEEP Remediation Standards are presented on the table for informational purposes and to assess if a release has occurred to groundwater at the Site. A summary of groundwater results collected to date organized by monitoring well and COC is presented below.

Volatile Organic Compounds (VOCs)

VOCs were not detected above the laboratory reporting limit in the wells that were sampled. VOCs were not detected in the duplicate groundwater sample W-D3 above the laboratory RL.

Extractable Total Petroleum Hydrocarbons (ETPH)

ETPH was not detected above the laboratory reporting limit in the wells that were sampled.

RCRA 8 Dissolved Metals

- Monitoring Well W-1
  - Barium (0.016 mg/l) was detected above the laboratory RL.
- Monitoring Well W-2
  - Barium (0.045 mg/l) was detected above the laboratory RL.
- Monitoring Well W-3
  - Barium (0.031 mg/l) was detected above the laboratory RL.
- Monitoring Well W-4
  - Barium (0.029 mg/l) was detected above the laboratory RL.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

A statistical analysis was performed to identify background concentrations for arsenic at the Site. EPA's ProUCL Version 5.0 software was used to identify outliers in the metals data through graphical representation using Quantile-Quantile Plots. All arsenic data collected from the site, including non-detect data (represented by the laboratory Reportable Limit (RL)) was used in this initial analysis. Following is a brief description of the how the data was analyzed.

- Q-Q Plots – Q-Q plots are used to check the validity of a distributional assumption for a data set. In general, the basic idea is to compute the theoretically expected value for each data point based on the distribution in question. If the data follow the assumed distribution, the points on the Q-Q plot will fall approximately on a straight line.

The Q-Q Plots generated in ProUCL for arsenic are attached in ***Appendix E.*** All available statistical methods were selected for the analysis. The lowest 95th percentile value of a lognormally distributed data set calculated from all of the statistical methods was selected to represent background values. The Upper Limit/BTV analysis is attached. Based on removal of outlier data over 20 mg/kg, twice the CTDEEP RSR cleanup criteria, the site-specific BTV for the site is 17.12 mg/kg. This site specific BTV for total arsenic would require CTDEEP Commissioner approval prior to its use for determining remediation decisions for the Site.

4.1.3 Groundwater Analytical Results

Groundwater analytical results are summarized in ***Table III***. Analytical results are presented in ***Appendix F.*** Applicable CTDEEP Remediation Standards are presented on the table for informational purposes and to assess if a release has occurred to groundwater at the Site. A summary of groundwater results collected to date organized by monitoring well and COC is presented below.

Volatile Organic Compounds (VOCs)

VOCs were not detected above the laboratory reporting limit in the wells that were sampled. VOCs were not detected in the duplicate groundwater sample W-D3 above the laboratory RL.

Extractable Total Petroleum Hydrocarbons (ETPH)

ETPH was not detected above the laboratory reporting limit in the wells that were sampled.

RCRA 8 Dissolved Metals

- Monitoring Well W-1
  - Barium (0.016 mg/l) was detected above the laboratory RL.
- Monitoring Well W-2
  - Barium (0.045 mg/l) was detected above the laboratory RL.
- Monitoring Well W-3
  - Barium (0.031 mg/l) was detected above the laboratory RL.
- Monitoring Well W-4
  - Barium (0.029 mg/l) was detected above the laboratory RL.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

- Monitoring Well W-5
  - Barium (0.143 mg/l) was detected above the laboratory RL.

- Monitoring Well W-6
  - Barium (0.004 mg/l) was detected above the laboratory RL.

- Monitoring Well MW-2
  - Barium (0.194 mg/l) was detected above the laboratory RL.
  - Chromium (0.002 mg/l) was detected above the laboratory RL.
  - Lead (0.003 mg/l) was detected above the laboratory RL.

5.0 SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

5.1 Summary

Eagle Environmental, Inc. has performed a Phase III RI at 1 and 7 Main Street in East Haddam, Connecticut. The Site currently operates as a storage facility for the town of East Haddam. Historically, the Site operated as the former CT DOT facility then East Haddam Department of Public Works town garage (1 Main Street), and lumber yard and East Haddam Coal and Lumber/Town Hall offices (7 Main Street).

The purpose of the Phase III RI is to determine the degree and extent of regulated compounds that may have resulted from releases of oil and/or hazardous substances at each of the Areas of Concern (AOCs) identified in the Conceptual Site Model (CSM) developed for the Site. This information was then used to develop remedial options for the future redevelopment of the Site. Eagle understands the future reuse of the Site may include demolition of the town garage building for redevelopment of the Site into mixed residential and commercial use.

The activities conducted as part of the Phase III RI study included the advancement of eleven (22) soil borings (B1 through B11 and B101 through B111), sampling of seven (7) groundwater monitoring wells (MW-2 and W-1 through W-6) and the collection and analysis of soil and groundwater samples. Soil samples were analyzed for Volatile Organic Compounds (VOCs) by EPA Method 8260, Extractable Total Petroleum Hydrocarbons (ETPH) by the Connecticut Department of Energy and Environmental Protection (CTDEEP) Method, Polychlorinated Biphenyls (PCBs) by Soxhlet SW3540C, RCRA 8 Total Metals by EPA Method Series 6000/7000, leachable RCRA 8 metals by the Synthetic Precipitation Leaching Procedure (SPLP), and Groundwater samples were analyzed for VOCs, ETPH, and dissolved RCRA 8 metals.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

At AOC1 (Former Floor drain area North of Garage), arsenic is present above the RSR residential and industrial commercial criteria at a depth of 4 to 6 ft.

At AOC2 (Floor Drains, former Blacksmith Shop, former Historical Storehouse, and Mechanical Shop in the Garage), arsenic, cadmium, and chromium exceeds the residential and industrial commercial criteria at a depth of 0 to 4 ft. Leachable lead by SPLP exceeds the GA PMC at 2.0 ft. to 4.0 ft.

At AOC3 (Arsenic Release Area), arsenic is present above the RSR residential and industrial commercial criteria at a depth of 4 to 6 ft.

At AOC4 (Former 1,000-gallon heating oil UST), ETPH was detected below applicable RSR criteria. Leachable lead was detected above the GA PMC at 2.0 ft. to 4.0 ft.

At AOC 6 (Former Lumber Yard Wood Product Storage Area), arsenic is present above applicable RSR criteria but below the site specific BTV of 17.12 mg/kg.

At AOC 7 (Former Heating Oil UST located at 7 Main Street adjacent to MW-3 and the former storage building), a release of constituents of petroleum were not detected.

At AOC 8 (Former Gasoline UST), a release of constituents of petroleum was not detected.

Constituents of concern (VOCs, ETPH, and dissolved RCRA 8 metals) for the Phase III RI were not detected above applicable RSR criteria in groundwater. Groundwater was resampled at AOC 5 to verify no impact to the Site exists due to the removal of the gasoline UST at 1 Main Street.

5.2 Revised CSM

Based on a conceptual site model developed for this Phase III RI, soil samples were collected within AOC 1 (Former Floor Drain Area North of the Garage 1 Main Street), AOC 2 (Former Floor Drains in Garage, Blacksmith Shop, Historic Storehouse, and Mechanical Shop 1 Main Street), AOC 3 (Arsenic Release Area 1 and 7 Main Street), and AOC 4 (Former 1,000-gallon Heating Oil UST1 Main Street 1 Main Street), AOC 6 (Former Lumber Yard Product Storage 7 Main Street), and AOC 7 (Former Underground Gasoline Tank 7 Main Street). The analysis was performed to assess degree and extent of releases of regulated materials previously identified by others due to historic use of the Site.

Soil collected during this investigation consisted predominately of medium-fine sand and silt.

Groundwater flow direction on-Site was confirmed to be in a south/southeasterly direction towards the Connecticut River.

Releases of regulated materials have been identified at AOC 2 within the former town garage building. Soil collected at and adjacent to the former floor drains in garage, historic blacksmith, storehouse and mechanical shop within the garage have concentrations of regulated materials (arsenic, chromium, lead and leachable lead) above applicable CTDEEP RSR cleanup standards.

Releases of arsenic outside the building at AOC 1, AOC 3, AOC 6, and background analysis areas of the Site (B104, B105, B106) have been identified by others and during this Phase III RI. Concentrations of arsenic at B101, B102, B103, B104, B105 and B106 exceed the site specific BTV of 17.12 mg/kg and applicable CTDEEP cleanup criteria.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

5.3 Conclusions and Recommendations

The following is our conclusions and recommendations based on the completed Phase III RI:

At AOC2 (Floor Drains, former Blacksmith Shop, former Historical Storehouse, and Mechanical Shop in the Garage), arsenic, chromium, and lead exceeds the residential and industrial commercial criteria at a depth of 0 to 4 ft. Leachable lead by SPLP exceeds the GA PMC at 2.0 ft. to 4.0 ft. Eagle recommends removal of the impacted soil if the building was to be demolished and the floor slab removed from the Site.

At AOC4 (Former 1,000-gallon heating oil UST), ETPH was detected below applicable RSR criteria. Leachable lead was detected above the GA PMC at 2.0 ft. to 4.0 ft. Eagle recommends removing the lead impacted soil adjacent to the building.

A Background Threshold Values (BTV) calculated for the Site for arsenic is 17.12 mg/kg. Use of the alternative site specific criterion would require approval from the CTDEEP Commissioner.

Arsenic concentrations in soil are variable throughout the Site. A Soil Management Plan should be developed to address site redevelopment plans and incorporate the reuse of arsenic impacted soil by rendering the soil environmentally isolated during site redevelopment followed by the placement of an Environmental Land Use Restriction (ELUR) onto the Site land record.

Groundwater is currently in compliance with applicable RSR criteria for VOCs, ETPH, and dissolved RCRA 8 metals. Eagle recommends conducting post remediation and compliance groundwater monitoring.

6.0 Conceptual Remedial Action Plan

Based on the results of the Phase III RI, remedial options for the Site are presented as follows and are based on the reuse of the Site for mixed residential/commercial use. Eagle reviewed the a redevelopment plan "East Haddam Village Proposed Site Plan Scheme C" by Fellner Associates, Inc., of Higganum, Connecticut as a basis to develop remedial strategies for the Site. This redevelopment Plan is presented as ***Figure REM-1***.

- Remedial Option No. 1 - <u>The garage building remains in place to be renovated for commercial use</u>: Remove soil adjacent to the building at AOC 4 to remediate lead which exceeds the GA PMC. Conduct post remediation and compliance groundwater monitoring. Place an environmental land use restriction (ELUR) on the land record for addressing soil that exceeds applicable RSR criteria at AOC 2.

- Remedial Option No. 2 – <u>The garage building is demolished and the concrete slab removed from the Site</u>: Remove metals impacted soil located under the floor slab within the garage and lawfully dispose of the soil off-site. Place/reuse arsenic fill from the area of B106 to in the excavation and compact and render inaccessible with placement under pavement and an ELUR. Conduct post remediation and compliance groundwater monitoring.

- <u>Remedial Option No. 3 – Removal of Arsenic Impacted soils at and adjacent to proposed On-Site Buildings:</u> The areas which will require remediation and stockpiled on-Site for reuse of the arsenic impacted soil from at and adjacent to B101, B102, B103, B104, and B105. The excavated soils from these areas of the Site will be rendered environmentally isolated with an ELUR in the Green Space area south of the River House. Soil would

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

need to be excavated in an approximate 600 sq. ft. area to a depth of 4 ft. and stockpiled. Two feet of arsenic impacted soil would be placed at a depth of 4 ft. to 2 ft. and a non-woven geotextile fabric placed over the material. The excavation would then be back filled to grade with the previous material excavated from this area of the Site. Any additional arsenic impacted soil excavated from the project area would be place under buildings, hardscape, and sidewalks, and pavement in accordance with the RSR. The Site would require an ELUR documenting where arsenic impacted soil was reused and the ELUR would be required to be placed onto the land record.

Potential Remedial Costs

Eagle's opinion of contractor and engineering costs are summarized on ***Table 4***. These costs will include the abatement of building materials within the River House, Town Garage, and the Town Hall. The costs also include soil remediation below the Town Garage slab after the building is demolished, as well as, removal and off-site disposal of soil outside the Town Garage and Town Hall properties as previously described in this report. Additional Administrative, Construction Monitoring and Reporting fees are included to get the Site into the CTDEEP Property Transfer program, assistance through construction and post-construction, and final LEP Verification for the Site.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

6.0 LIMITATIONS

This Phase III RI and Remedial Action Report was prepared by Eagle Environmental, Inc. for their client and parties subject to the proximate transfer of the property, exclusively. The findings provided by Eagle Environmental, Inc. in this report are based solely on the information reported in this document. Any mention of Eagle Environmental, Inc. in this report is used solely as a reference to their previous work at the Site. Future investigations, and/or information that was not available to Eagle Environmental, Inc. at the time of the investigation, may result in a modification of the findings stated in this report.

Should additional information become available concerning this Site or neighboring properties which could directly impact the Site in the future, that information should be made available to Eagle Environmental, Inc. for review so that, if necessary, conclusions presented in this report may be modified. The conclusions of this report are based on Site conditions observed by Eagle Environmental, Inc. personnel at the time of the investigation and samples collected and analyzed on the date shown or stated in this report. This report has been prepared in accordance with generally accepted engineering and geological practices. No other warranty, express or implied, is made.

EAGLE ENVIRONMENTAL, INC.
8 SOUTH MAIN STREET, SUITE 3 • TERRYVILLE, CT 06786
PHONE (860) 589-8257 • FAX (860) 585-7034

FIGURES

SITE LOCATION PLAN

SCALE: 1" = 100'

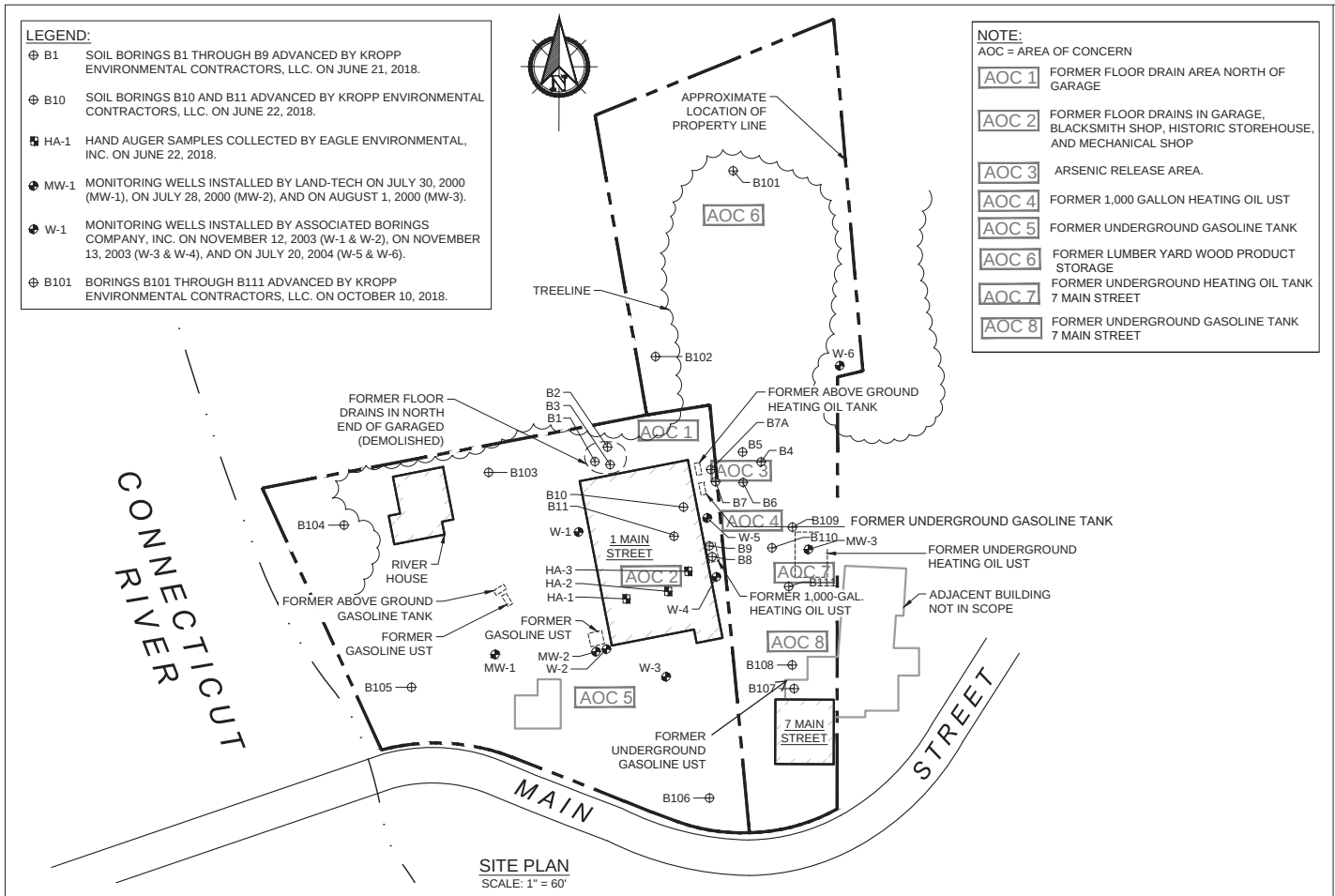
PHASE III ENVIRONMENTAL SITE INVESTIGATION
TOWN OF EAST HADDAM
1 MAIN STREET
EAST HADDAM, CONNECTICUT

PROJECT NO.: 18-144.10T1
DATE: 6/27/2018
DRAWN BY: BB
REVIEWED BY: JD

8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
(860)585-4822

SHEET NO.
SL-1
SHEET 1 OF 2

\\Eagleenv\public\2018 Files\2018 AutoCAD\EAST HADDAM, TOWN OF\1 MAIN STREET\PHASE III\CAD\1 MAIN STREET.dwg



PHASE III ENVIRONMENTAL SITE INVESTIGATION
TOWN OF EAST HADDAM
1 MAIN STREET
EAST HADDAM, CONNECTICUT

PROJECT NO.: 18-144.10T1
DATE: 6/27/2018
DRAWN BY: BB
REVIEWED BY: JD

8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860.589.8591

SHEET NO.
SP-1
SHEET 2 OF 2

LEGEND:

⊕ B1	SOIL BORINGS B1 THROUGH B9 ADVANCED BY KROPP ENVIRONMENTAL CONTRACTORS, LLC. ON JUNE 21, 2018.
⊕ B10	SOIL BORINGS B10 AND B11 ADVANCED BY KROPP ENVIRONMENTAL CONTRACTORS, LLC. ON JUNE 22, 2018.
HA-1	HAND AUGER SAMPLES COLLECTED BY EAGLE ENVIRONMENTAL, INC. ON JUNE 22, 2018.
MW-1	MONITORING WELLS INSTALLED BY LAND-TECH ON JULY 30, 2000 (MW-1), ON JULY 28, 2000 (MW-2), AND ON AUGUST 1, 2000 (MW-3).
W-1	MONITORING WELLS INSTALLED BY ASSOCIATED BORINGS COMPANY, INC. ON NOVEMBER 12, 2003 (W-1 & W-2), ON NOVEMBER 13, 2003 (W-3 & W-4), AND ON JULY 20, 2004 (W-5 & W-6).
⊕ B101	BORINGS B101 THROUGH B111 ADVANCED BY KROPP ENVIRONMENTAL CONTRACTORS, LLC. ON OCTOBER 10, 2018.
	SOIL REQUIRING REMEDIATION / SOIL MANAGEMENT WITH AN ELUR PLACED ON THE LAND RECORD.

NOTE:
CONCEPTUAL REMEDIATION PLAN COMES FROM DRAWING S-1.0C "EAST HADDAM VILLAGE PROPOSED SITE PLAN SCHEME C" BY FELLNER ASSOCIATES ARCHITECTS, HIGGANUM, CONNECTICUT.

DATE: 10/10/18
DRAWN BY: RJ
CHECKED BY: AS NOTED
SCALE:
REVISION #: 0
PROJECT NO.: 18-0010

REVISIONS
NO. | DATE | DESCRIPTION

PROJECT TITLE:
CONCEPTUAL REMEDIATION PLAN
NOT FOR CONSTRUCTION: OCTOBER 2018

PROJECT LOCATION:
PROPOSED EAST HADDAM VILLAGE RE-DEVELOPMENT PROJECT
1 & 7 MAIN STREET
EAST HADDAM, CONNECTICUT

CIVIL ENGINEER:
KROPP ENVIRONMENTAL CONTRACTORS, LLC
8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-5222

SHEET TITLE:
SITE PLAN

SHEET NO.
REM-1
SHEET 1 OF 1

S:\Engineer\public\2018 Files\2018 AutoCAD\EAST HADDAM, TOWN OF\1 MAIN STREET\PHASE III\CAD\1 MAIN STREET.dwg

TABLES

TABLE I
SUMMARY OF SOIL ANALYTICAL RESULTS
PHASE III ENVIRONMENTAL SITE INVESTIGATION
1 AND 7 MAIN STREET, EAST HADDAM, CONNECTICUT
AOC 1

Sample Location	B1 S2	B1 S3	B1 S4	B2 S2	B2 S3	**CT DEEP Remediation Standard Regulations**		
Area of Concern (AOC)	Former Floor Drain Area North of Garage	Former Floor Drain Area North of Garage	Former Floor Drain Area North of Garage	Former Floor Drain Area North of Garage	Former Floor Drain Area North of Garage			
Sample Depth (ft. below ground surface)	(2.0'-4.0')	(4.0'-6.0')	(6.0'-8.0')	(2.0'-4.0')	(4.0'-6.0')			
Date Sampled	6/21/18	6/21/18	6/21/18	6/21/18	6/21/18			
Work Order No.	CA77254	CA77255	CA77256	CA77257	CA77258	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)								
RCRA 8 Total Metals by EPA Method 6000/7000 (mg/kg)								
Arsenic	**7.58**	**11.20**	NA	**7.80**	**11.90**	10	10	17.12
Barium	**39.60**	**31.60**	NA	**26.00**	**35.80**	4700	140000	-
Cadmium	< 0.37	< 0.35	NA	< 0.39	< 0.37	34	1000	-
Chromium	**30.40**	**41.50**	NA	**30.40**	**45.80**	100	100	-
Lead	**7.53**	**3.30**	NA	**3.91**	**3.34**	400	1000	-
Mercury	< 0.03	< 0.03	NA	< 0.03	< 0.03	20	610	-
Selenium	< 1.50	< 1.40	NA	< 1.60	< 1.50	340	10000	-
Silver	< 0.37	< 0.35	NA	< 0.39	< 0.37	340	10000	-
Synthetic Precipitation Leaching Procedure (SPLP) (mg/l)								
Lead	NA	NA	NA	NA	NA	-	-	0.015
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	ND < 57	ND < 52	NA	ND < 56	ND < 52	500	2500	500
Total Solids (%)	87	95	NA	88	94	-	-	-
PCB by Soxhlet SW3540C	ND < 0.37	ND < 0.35	NA	ND < 0.38	ND < 0.35	-	-	-
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	ND < 0.0047	NA	ND < 0.0031	NA	NA	-	-	-

AOC 1

Sample Location	B2 S4	B2 S6	B3 S2	B3 S3	B3 S4	**CT DEEP Remediation Standard Regulations**		
Area of Concern (AOC)	Former Floor Drain Area North of Garage	Former Floor Drain Area North of Garage	Former Floor Drain Area North of Garage	Former Floor Drain Area North of Garage	Former Floor Drain Area North of Garage			
Sample Depth (ft. below ground surface)	(6.0'-8.0')	(10.0'-12.0')	(2.0'-4.0')	(4.0'-6.0')	(6.0'-8.0')			
Date Sampled	6/21/18	6/21/18	6/21/18	6/21/18	6/21/18			
Work Order No.	CA77259	CA77260	CA77261	CA77262	CA77263	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)								
RCRA 8 Total Metals by EPA Method 6000/7000 (mg/kg)								
Arsenic	NA	NA	**5.76**	**12.30**	NA	10	10	17.12
Barium	NA	NA	**55.60**	**34.90**	NA	4700	140000	-
Cadmium	NA	NA	< 0.39	< 0.37	NA	34	1000	-
Chromium	NA	NA	**26.30**	**46.50**	NA	100	100	-
Lead	NA	NA	**11.20**	**8.50**	NA	400	1000	-
Mercury	NA	NA	**0.04**	< 0.03	NA	20	610	-
Selenium	NA	NA	< 1.50	< 1.50	NA	340	10000	-
Silver	NA	NA	< 0.39	< 0.37	NA	340	10000	-
Synthetic Precipitation Leaching Procedure (SPLP) (mg/l)								
Lead	NA	NA	NA	NA	NA	-	-	0.015
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	NA	NA	ND < 59	ND < 56	NA	500	2500	500
Total Solids (%)	NA	NA	83	88	NA	-	-	-
PCB by Soxhlet SW3540C	NA	NA	ND < 0.40	ND < 0.38	NA	-	-	-
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	ND < 0.0039	ND < 0.0044	ND < 0.0070	NA	ND < 0.0022	-	-	-

mg/kg = milligrams per kilogram
Bold = compound detected at that concentration
NE = Not Established by CTDEEP
ND = Not Detected
NA = Not Analyzed

Result Exceeds the applicable RES DEC
Result Exceeds the applicable I/C DEC, RES DEC, GA, GAA PMC (if applicable) and Site Secific BTV
Result Exceeds the applicable GA, GAA PMC

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GA, GAA PMC = Soil Pollutant Mobility Criteria
(1) = Criteria Listed if from the CTDEEP Technical Support Document Table 10 Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Request dated November 2015.
Notes:

TABLE 1 - SUMMARY OF SOIL ANALYTICAL RESULTS
PHASE III ENVIRONMENTAL SITE INVESTIGATION
1 MAIN STREET, EAST HADDAM, CONNECTICUT

	AOC 3							
Sample Location	B4 S2	B4 S3	B5 S2	B5 S3	B6 S2	**CT DEEP Remediation Standard Regulations**		
Area of Concern (AOC)	Arsenic Release Area	Arsenic Release Area	Arsenic Release Area	Arsenic Release Area	Arsenic Release Area			
Sample Depth (ft. below ground surface)	(2.0'-4.0')	(4.0'-6.0')	(2.0'-4.0')	(4.0'-6.0')	(2.0'-4.0')			
Date Sampled	6/21/18	6/21/18	6/21/18	6/21/18	6/21/18			
Work Order No.	CA77264	CA77265	CA77266	CA77267	CA77268	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)								
RCRA 8 Total Metals by EPA Method 6000/7000 (mg/kg)								
Arsenic	**3.90**	**12.50**	**3.04**	**15.80**	**9.54**	10	10	17.12
Barium	NA	NA	NA	NA	NA	4700	140000	-
Cadmium	NA	NA	NA	NA	NA	34	1000	-
Chromium	NA	NA	NA	NA	NA	100	100	-
Lead	NA	NA	NA	NA	NA	400	1000	-
Mercury	NA	NA	NA	NA	NA	20	610	-
Selenium	NA	NA	NA	NA	NA	340	10000	-
Silver	NA	NA	NA	NA	NA	340	10000	-
Synthetic Precipitation Leaching Procedure (SPLP) (mg/l)								
Lead	NA	NA	NA	NA	NA	-	-	0.015
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	NA	NA	NA	NA	NA	500	2500	500
Total Solids (%)	92	90	97	81	87	-	-	-
PCB by Soxhlet SW3540C	NA	NA	NA	NA	NA	-	-	-
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	NA	NA	NA	NA	NA	-	-	-

	AOC 3			AOC 4				
Sample Location	B6 S3	B7 S2	B7A S4	B8 S2	B9 S3	**CT DEEP Remediation Standard Regulations**		
Area of Concern (AOC)	Arsenic Release Area	Arsenic Release Area	Arsenic Release Area	Former 1,000-gallon UST	Former 1,000-gallon UST			
Sample Depth (ft. below ground surface)	(4.0'-6.0')	(2.0'-4.0')	(6.0'-8.0')	(2.0'-4.0')	(4.0'-6.0')			
Date Sampled	6/21/18	6/21/18	6/21/18	6/21/18	6/21/18			
Work Order No.	CA77269	CA77270	CA77271	CA77272	CA77273	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)								
RCRA 8 Total Metals by EPA Method 6000/7000 (mg/kg)								
Arsenic	**14.60**	**2.58**	**6.47**	NA	NA	10	10	17.12
Barium	NA	NA	NA	NA	NA	4700	140000	-
Cadmium	NA	NA	NA	NA	NA	34	1000	-
Chromium	NA	NA	NA	NA	NA	100	100	-
Lead	NA	NA	NA	**34.80**	**38.40**	400	1000	-
Mercury	NA	NA	NA	NA	NA	20	610	-
Selenium	NA	NA	NA	NA	NA	340	10000	-
Silver	NA	NA	NA	NA	NA	340	10000	-
Synthetic Precipitation Leaching Procedure (SPLP) (mg/l)								
Lead	NA	NA	NA	**0.023**	< 0.010	-	-	0.015
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	NA	NA	NA	NA	NA	500	2500	500
Total Solids (%)	95	96	87	90	94	-	-	-
PCB by Soxhlet SW3540C	NA	NA	NA	NA	NA	-	-	-
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	NA	NA	NA	NA	NA	-	-	-

mg/kg = milligrams per kilogram
Bold = compound detected at that concentration
NE = Not Established by CTDEEP
ND = Not Detected
NA = Not Analyzed

Result Exceeds the applicable RES DEC
Result Exceeds the applicable I/C DEC, RES DEC, GA, GAA PMC (if applicable) and Site Secific BTV
Result Exceeds the applicable GA, GAA PMC

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GA, GAA PMC = Soil Pollutant Mobility Criteria
(1) = Criteria Listed if from the CTDEEP Technical Support Document Table 10 Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Request dated November 2015.
Notes:

SUMMARY OF SOIL ANALYTICAL RESULTS
PHASE III ENVIRONMENTAL SITE INVESTIGATION
1 MAIN STREET, EAST HADDAM, CONNECTICUT

	AOC4	AOC 2						
Sample Location	B9 S5	B10 S2	B11 S2	HA-1 S1	HA-2 S1	CT DEEP Remediation Standard Regulations		
Area of Concern (AOC)	Former 1,000-gallon UST	Former Floor Drains in Garage, Historic Blacksmith, Storehouse and Mechanical Shop	Former Floor Drains in Garage, Historic Blacksmith, Storehouse and Mechanical Shop	Former Floor Drains in Garage, Historic Blacksmith, Storehouse and Mechanical Shop	Former Floor Drains in Garage, Historic Blacksmith, Storehouse and Mechanical Shop			
Sample Depth (ft. below ground surface)	(8.0'-10.0')	(2.0'-4.0')	(2.0'-4.0')	(0.0'-2.0')	(0.0'-2.0')			
Date Sampled	6/21/18	6/22/18	6/22/18	6/22/18	6/22/18			
Work Order No.	CA77274	CA77275	CA77276	CA77277	CA77278	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)								
RCRA 8 Total Metals by EPA Method 6000/7000 (mg/kg)								
Arsenic	NA	**16.90**	**42.20**	**16.60**	**16.20**	10	10	17.12
Barium	NA	**65.50**	**209.00**	**3850.00**	**90.40**	4700	140000	-
Cadmium	NA	**0.44**	**5.23**	**2.63**	< 0.35	34	1000	-
Chromium	NA	**60.30**	**120.00**	**301.00**	**72.10**	100	100	-
Lead	NA	**35.70**	**1840.00**	**2190.00**	**23.70**	400	1000	-
Mercury	NA	< 0.03	< 0.03	< 0.03	**0.03**	20	610	-
Selenium	NA	< 1.40	< 1.50	< 1.40	< 1.4	340	10000	-
Silver	NA	< 0.36	< 0.37	< 0.35	< 0.35	340	10000	-
Synthetic Precipitation Leaching Procedure (SPLP) (mg/l)								
Lead	NA	< 0.010	**0.205**	NA	NA	-	-	0.015
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	**280**	ND < 54	ND < 260	ND < 54	ND < 57	500	2500	500
Total Solids (%)	76	92	94	90	87	-	-	-
PCB by Soxhlet SW3540C	NA	ND < 0.36	ND < 0.35	ND < 0.37	ND < 0.38	-	-	-
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	NA	ND < 0.0042	ND < 0.0037	ND < 0.0037	ND < 0.0036	-	-	-

	AOC 2		AOC 1				
Sample Location	HA-2 S2	HA-3 S2	062218324	0621821012	CT DEEP Remediation Standard Regulations		
Area of Concern (AOC)	Former Floor Drains in Garage, Historic Blacksmith, Storehouse and Mechanical Shop	Former Floor Drains in Garage, Historic Blacksmith, Storehouse and Mechanical Shop	Former Floor Drains in Garage, Historic Blacksmith, Storehouse and Mechanical Shop	Former Floor Drain Area North of Garage			
Sample Depth (ft. below ground surface)	(2.0'-4.0')	(2.0'-4.0')	(2.0'-4.0')	(10.0'-12.0')			
Date Sampled	6/22/18	6/22/18	6/22/18	6/21/18			
Work Order No.	CA77279	CA77280	CA77281	CA77282	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)							
RCRA 8 Total Metals by EPA Method 6000/7000 (mg/kg)							
Arsenic	**14.70**	**8.01**	NA	NA	10	10	17.12
Barium	**76.90**	**29.50**	NA	NA	4700	140000	-
Cadmium	< 0.39	< 0.38	NA	NA	34	1000	-
Chromium	**71.00**	**24.00**	NA	NA	100	100	-
Lead	**30.10**	**4.39**	NA	NA	400	1000	-
Mercury	**0.03**	< 0.03	NA	NA	20	610	-
Selenium	< 1.50	< 1.50	NA	NA	340	10000	-
Silver	< 0.39	< 0.38	NA	NA	340	10000	-
Synthetic Precipitation Leaching Procedure (SPLP) (mg/l)							
Lead	NA	NA	NA	NA	-	-	0.015
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	ND < 55	ND < 52	NA	NA	500	2500	500
Total Solids (%)	90	94	NA	NA	-	-	-
PCB by Soxhlet SW3540C	ND < 0.37	ND < 0.35	NA	NA	-	-	-
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	ND < 0.0038	ND < 0.0044	ND < 0.0037	ND < 0.0028	-	-	-

mg/kg = milligrams per kilogram
Bold = compound detected at that concentration
NE = Not Established by CTDEEP
ND = Not Detected
NA = Not Analyzed

Result Exceeds the applicable RES DEC
Result Exceeds the applicable I/C DEC, RES DEC, GA, GAA PMC (if applicable) and Site Secific BTV
Result Exceeds the applicable GA, GAA PMC

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GA, GAA PMC = Soil Pollutant Mobility Criteria
(1) = Criteria Listed if from the CTDEEP Technical Support Document Table 10 Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Request dated November 2015.
Notes: Sample 062218324 is a duplicate of HA-3 S2. Sample 06211821012 is a duplicate of B2 S6.

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
SUPPLEMENTAL PHASE III ENVIRONMENTAL SITE INVESTIGATION
1 & 7 MAIN STREET, EAST HADDAM, CONNECTICUT

	AOC 6							
Sample Location	B101 S1	B101 S2	B101 S3	B102 S1	B102 S2	**CT DEEP Remediation Standard Regulations**		
Area of Concern (AOC)	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic			
Sample Depth (ft. below ground surface)	(1.0'-3.0')	(3.0'-5.0')	(5.0'-7.0')	(1.0'-3.0')	(3.0'-5.0')			
Date Sampled	10/10/18	10/10/18	10/10/18	10/10/18	10/10/18			
Work Order No.	CB70921	CB70922	CB70923	CB70924	CB70925	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)								
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	NA	NA	NA	NA	NA	500	2500	-
Total Solids (%)	87	88	86	90	82	-	-	-
Total Arsenic by EPA Method 6000/7000 (mg/kg)								
Arsenic	**6.49**	**45**	**31.6**	**9.24**	**8.03**	10	10	17.12
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	NA	NA	NA	NA	NA	-	-	-

	AOC 6		BTV ARSENIC ANALYSIS					
Sample Location	B102 S4	10101810279	B103 S1	B103 S2	B103 S3	**CT DEEP Remediation Standard Regulations**		
Area of Concern (AOC)	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic			
Sample Depth (ft. below ground surface)	(7.0'-9.0')	(7.0'-9.0')	(1.0'-3.0')	(3.0'-5.0')	(5.0'-7.0')			
Date Sampled	10/10/18	10/10/18	10/10/18	10/10/18	10/10/18			
Work Order No.	CB70926	CB70927	CB70928	CB70929	CB70930	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)								
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	NA	NA	NA	NA	NA	500	2500	-
Total Solids (%)	89	83	85	87	91	-	-	-
Total Arsenic by EPA Method 6000/7000 (mg/kg)								
Arsenic	**11.5**	**14.2**	**8.98**	**5.49**	**30.7**	10	10	17.12
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	NA	NA	NA	NA	NA	-	-	-

	BTV ARSENIC ANALYSIS							
Sample Location	B104 S1	B104 S2	B104 S3	B105 S1	B105 S2	**CT DEEP Remediation Standard Regulations**		
Area of Concern (AOC)	Arsenic	Arsenic	Arsenic	Arsenic	Arsenic			
Sample Depth (ft. below ground surface)	(1.0'-3.0')	(3.0'-5.0')	(5.0'-7.0')	(1.0'-3.0')	(3.0'-5.0')			
Date Sampled	10/10/18	10/10/18	10/10/18	10/10/18	10/10/18			
Work Order No.	CB70931	CB70932	CB70933	CB70934	CB70935	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)								
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	NA	NA	NA	NA	NA	500	2500	-
Total Solids (%)	90	85	87	78	84	-	-	-
Total Arsenic by EPA Method 6000/7000 (mg/kg)								
Arsenic	**15.9**	**16.0**	**11.7**	**14.0**	**6.85**	10	10	17.12
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	NA	NA	NA	NA	NA	-	-	-

KEY:
mg/kg = milligrams per kilogram
Bold = compound detected at that concentration
NE = Not Established by CTDEEP
ND = Not Detected
NA = Not Analyzed

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GA, GAA PMC = Soil Pollutant Mobility Criteria

Result Exceeds the applicable RES DEC
Result Exceeds the applicable I/C DEC, RES DEC, GA, GAA PMC (if applicable) and Site Secific BTV
Result Exceeds the applicable GA, GAA PMC

References:
Criteria listed comes from the CTDEEP RSR's dated August 9, 2017.
[1] CTDEEP Technical Support Document: Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Requests January 2017.

Notes: 10101810279 is a duplicate of B102 S4.

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
SUPPLEMENTAL PHASE III ENVIRONMENTAL SITE INVESTIGATION
1 & 7 MAIN STREET, EAST HADDAM, CONNECTICUT

	BTV ARSENIC ANALYSIS			AOC 8				
Sample Location	B106 S1	B106 S2	B106 S3	B107 S2	B107 S4	**CT DEEP Remediation Standard Regulations**		
Area of Concern (AOC)	Arsenic	Arsenic	Arsenic	Fomer Gasoline UST	Foremr Gasoline UST			
Sample Depth (ft. below ground surface)	(1.0'-3.0')	(3.0'-5.0')	(5.0'-7.0')	(3.0'-5.0')	(7.0'-9.0')			
Date Sampled	10/10/18	10/10/18	10/10/18	10/10/18	10/10/18			
Work Order No.	CB70936	CB70937	CB70938	CB70939	CB70940	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)								
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	NA	NA	NA	ND <62	ND <59	500	2500	-
Total Solids (%)	96	81	77	80	83	-	-	-
Total Arsenic by EPA Method 6000/7000 (mg/kg)								
Arsenic	**46.3**	**21.7**	**20.4**	NA	NA	10	10	17.12
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	NA	NA	NA	NA	NA	-	-	-

	AOC 8							
Sample Location	B107 S5	B108 S2	B108 S3	B108 S4	B108 S5	**CT DEEP Remediation Standard Regulations**		
Area of Concern (AOC)	Fomer Gasoline UST	Fomer Gasoline UST	Fomer Gasoline UST	Fomer Gasoline UST	Fomer Gasoline UST			
Sample Depth (ft. below ground surface)	(9.0'-11.0')	(3.0'-5.0')	(5.0'-7.0')	(7.0'-9.0')	(9.0'-11.0')			
Date Sampled	10/10/18	10/10/18	10/10/18	10/10/18	10/10/18			
Work Order No.	CB70941	CB70942	CB70943	CB70944	CB70945	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)								
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	ND <62	ND <67	ND <59	ND <65	ND <69	500	2500	-
Total Solids (%)	79	74	82	77	72	-	-	-
Total Arsenic by EPA Method 6000/7000 (mg/kg)								
Arsenic	NA	NA	NA	NA	NA	10	10	17.12
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	NA	NA	NA	NA	NA	-	-	-

	AOC 7							
Sample Location	B109 S3	B109 S4	B109 S5	B111 S3	B111 S4	**CT DEEP Remediation Standard Regulations**		
Area of Concern (AOC)	Former Heating Oil UST	Former Heating Oil UST	Former Heating Oil UST	Former Heating Oil UST	Former Heating Oil UST			
Sample Depth (ft. below ground surface)	(5.0'-7.0')	(7.0'-9.0')	(9.0'-11.0')	(5.0'-7.0')	(7.0'-9.0')			
Date Sampled	10/10/18	10/10/18	10/10/18	10/10/18	10/10/18			
Work Order No.	CB70946	CB70947	CB70948	CB70949	CB70950	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)								
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	NA	NA	NA	NA	NA	500	2500	-
Total Solids (%)	95	81	78	80	81	-	-	-
Total Arsenic by EPA Method 6000/7000 (mg/kg)								
Arsenic	NA	NA	NA	NA	NA	10	10	17.12
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	ND <0.0051	ND <0.0041	ND <0.0071	ND <0.0065	ND <0.0055	-	-	-

KEY:
mg/kg = milligrams per kilogram
Bold = compound detected at that concentration
NE = Not Established by CTDEEP
ND = Not Detected
NA = Not Analyzed

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GA, GAA PMC = Soil Pollutant Mobility Criteria

Result Exceeds the applicable RES DEC
Result Exceeds the applicable I/C DEC, RES DEC, GA, GAA PMC (if applicable) and Site Secific BTV
Result Exceeds the applicable GA, GAA PMC

References:
Criteria listed comes from the CTDEEP RSR's dated August 9, 2017.
[1] CTDEEP Technical Support Document: Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Requests January 2017.

Notes:

AOC 7

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
SUPPLEMENTAL PHASE III ENVIRONMENTAL SITE INVESTIGATION
1 & 7 MAIN STREET, EAST HADDAM, CONNECTICUT

Sample Location	B111 S5	101018111911	**CT DEEP Remediation Standard Regulations**		
Area of Concern (AOC)	Former Heating Oil UST	Former Heating Oil UST			
Sample Depth (ft. below ground surface)	(9.0'-11.0')	(9.0'-11.0')			
Date Sampled	10/10/18	10/10/18			
Work Order No.	CB70951	CB70954	RES DEC	I/C DEC	Site Specific BTV
Parameter (Units)					
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/kg)	NA	NA	500	2500	-
Total Solids (%)	72	72	-	-	-
Total Arsenic by EPA Method 6000/7000 (mg/kg)					
Arsenic	NA	NA	10	10	17.12
Volatile Organic Compounds by EPA Method 8260 (mg/kg)	ND <0.0090	ND <0.0058	-	-	-

KEY:
mg/kg = milligrams per kilogram
Bold = compound detected at that concentration
NE = Not Established by CTDEEP
ND = Not Detected
NA = Not Analyzed

RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GA, GAA PMC = Soil Pollutant Mobility Criteria

Result Exceeds the applicable RES DEC
Result Exceeds the applicable I/C DEC, RES DEC, GA, GAA PMC (if applicable) and Site Secific BTV
Result Exceeds the applicable GA, GAA PMC

References:
Criteria listed comes from the CTDEEP RSR's dated August 9, 2017.
[1] CTDEEP Technical Support Document: Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Requests January 2017.

Notes: 101018111911 is a duplicate of B111 S5.

TABLE III
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
PHASE III ENVIRONMENTAL SITE INVESTIGATION
1 AND 7 MAIN STREET, EAST HADDAM, CONNECTICUT

Sample Location	W-2	MW-2	W-1	W-5	W-4	CT DEEP Remediation Standard Regulations		
Date Sampled	6/14/18	6/14/18	6/14/18	6/14/18	6/14/18			
Work Order No.	CA72424	CA72425	CA72426	CA72427	CA72428	GWPC	RES VOL.	I/C VOL.
Parameter (Units)								
RCRA 8 Total Metals by EPA Method 6000/7000 (mg/l)								
Arsenic	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.05	NE	NE
Barium	**0.045**	**0.194**	**0.016**	**0.143**	**0.029**	1	NE	NE
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.005	NE	NE
Chromium	< 0.001	**0.002**	< 0.001	< 0.001	< 0.001	0.05	NE	NE
Lead	< 0.002	**0.003**	< 0.002	< 0.002	< 0.002	0.015	NE	NE
Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.002	NE	NE
Selenium	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.05	NE	NE
Silver	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.036	NE	NE
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/l)	ND < 0.066	ND < 0.066	ND < 0.069	ND < 0.067	ND < 0.066	0.25[(1)]	0.25[(1)]	0.25[(1)]
Volatile Organic Compounds by EPA Method 8260 (mg/l)	ND < 0.001	ND < 0.001	ND < 0.001	ND < 0.001	ND < 0.001	-	-	-

Sample Location	W-6	W-3	W-D3			CT DEEP Remediation Standard Regulations		
Date Sampled	6/14/18	6/14/18	6/14/18					
Work Order No.	CA72429	CA72430	CA72431			GWPC	RES VOL.	I/C VOL.
Parameter (Units)								
RCRA 8 Total Metals by EPA Method 6000/7000 (mg/l)								
Arsenic	< 0.004	< 0.004	NA			0.05	NE	NE
Barium	**0.004**	**0.031**	NA			1	NE	NE
Cadmium	< 0.001	< 0.001	NA			0.005	NE	NE
Chromium	< 0.001	< 0.001	NA			0.05	NE	NE
Lead	< 0.002	< 0.002	NA			0.015	NE	NE
Mercury	< 0.0002	< 0.0002	NA			0.002	NE	NE
Selenium	< 0.010	< 0.010	NA			0.05	NE	NE
Silver	< 0.001	< 0.001	NA			0.036	NE	NE
Extractable Total Petroleum Hydrocarbons by CTDEEP Method (mg/l)	ND < 0.070	ND < 0.082	NA			0.25[(1)]	0.25[(1)]	0.25[(1)]
Volatile Organic Compounds by EPA Method 8260 (mg/l)	ND < 0.001	ND < 0.001	ND < 0.001			-	-	-

Notes:
ug/L = micrograms per liter
mg/L = milligrams per liter
Bold = compound detected at that concentration
NE = Not Established by CTDEEP
ND = Not Detected
NA = Not Analyzed
Notes: Sample W-D3 is a duplicate of W-4.

Exceeds RSR Criteria

(1) Criteria listed comes from the CTDEEP RSR's dated June 27, 2013 and CTDEEP Technical Support Document: Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Requests (November 2015).

Table 4
Opinion of Site Remediation Contractor Cost - East Haddam Village Redevelopment Project
1 and 7 Main Street
East Haddam, Connecticut

Abatement Cost for the River House [1]	Subtotal	Plus Contingency	Total Cost
Asbestos, Lead Based Paint, and Universal Waste	$22,557	$24,813	$24,813
PCB in Window, Caulk, and Soil Disposal	$10,000	$11,000	$11,000

Abatement Cost for the Town Offices [2]	Subtotal	Plus Contingency	Total Cost
Asbestos, Lead Based Paint, and Universal Waste	$43,376	$47,714	$47,714
PCB in Window, Caulk, and Soil Disposal	$10,000	$11,000	$11,000

Abatement Cost for the Town Garage [3]	Approximate Volume of Excavated PCB/Lead Impacted Soil (yd^3) [4]	Approximate Mass of PCB/Lead-Impacted Soil (tons)	Approximate Mass of PCB Impacted Building Materials (tons)	Transportation and Disposal of PCB Bulk Remediation Waste @ $450/ton	Labor & Expenses to Excavate, Stockpile, Load Impacted Soil (Presumes Excavator Production at Approximately 150 yd^3/day)	Subtotal	Plus Contingency	Total Cost
Asbestos, Lead Based Paint, and Universal Waste						$28,774	$31,651	$31,651
PCB in Window, Caulk, and Soil Disposal Including lead in soil at B8)	40	60	20	$36,000	$990	$37,155	$40,870	$41,000

Table 4
Opinion of Site Remediation Contractor Cost - East Haddam Village Redevelopment Project
1 and 7 Main Street
East Haddam, Connecticut

Soil Remediation AOC 2 to CTDEEP RSR for Arsenic with an ELUR (Former Floor Drains in Town Garage, Blacksmith Shop, Historic Storehouse, and Mechanical Shop) (Soil Boring Nos. B10, B11, HA-1, HA-2, HA-3 & B8)	Approximate Volume of Excavated Lead Impacted Soil (yd^3)	Approximate Mass of Lead-Impacted Soil (tons)	Labor & Expenses to Excavate, Stockpile, and Dispose Off-Site Lead-Impacted Soil Under Proposed Buildings and Paved Areas (Loading, Transportation, and Disposal cost at $150/ton)	Reuse Arsenic soil B 106 in excavation @16.50/yd^3 to place the material	Subtotal	Plus Contingency	Total Cost
	1050	1575	$236,250	$5,250	$241,500	$265,650	$266,000

Soil Remediation AOC 6 (Former Coal & Lumber Yard Product Storage North of Town Office's at 7 Main St)	Approximate Volume of Excavated Metals Impacted Soil (yd^3)	Approximate Mass of Metals-Impacted Soil (tons)	Labor & Expenses to Excavate, Stockpile, Reuse Metals-Impacted Soil Under Proposed Buildings and Paved Areas (Presumes Excavator Production at Approximately 150 yd^3/day)	Approximate Cost/yd^3 for Delivery and Placement of Structural Fill Within Excavation (@ $50/$yd^3$)	Subtotal	Plus Contingency	Total Cost
	950	1425	$31,350	$47,500	$78,850	$86,735	$87,000

Soil Remediation B106 (Parking Area South of the Town Garage)	Approximate Volume of Excavated Arsenic Impacted Soil (yd^3)	Approximate Mass of Arsenic-Impacted Soil (tons)	Labor & Expenses to Excavate, Stockpile, Reuse Metals-Impacted Soil Under Proposed Buildings and Paved Areas (Presumes Excavator Production at Approximately 150 yd^3/day)	Approximate Cost/yd^3 for Delivery and Placement of Structural Fill Within the Excavation (@ $50/$yd^3$)	Subtotal	Plus Contingency	Total Cost
	850	1275	$28,050	$42,500	$70,550	$77,605	$78,000

Table 4

Opinion of Site Remediation Contractor Cost - East Haddam Village Redevelopment Project

1 and 7 Main Street

East Haddam, Connecticut

Placement of Arsenic Soil in Green Space Areas (B104 and B105)	Approximate Volume of Excavated Arsenic Impacted Soil to be Reused (yd^3)	Approximate Volume of Arsenic Impacted Soil to be removed at B104 and B105 (yd^3)	Area Required to Place Arsenic Impacted Soil in a 2 ft. Lift (sq. ft.)	Approximate Cost/yd^3 for Delivery and Placement of Clean Fill 2 ft. of Clean Fill Within the Green Space (@ $50/yd3)	Labor, Material, and Equipment Cost to Place 2 ft. of Arsenic Soil in Green Space Area @$16.50 yd3)	Non Woven Geotextile Warning Layer	Subtotal	Plus Contingency	Total Cost
	850	475	663	$33,150	$21,863	$650	$55,663	$61,229.30	$61,300
							Contractor Subtotal:		**$659,478**

	Subtotal	Plus Contingency	Total Cost
Environmental Engineering Costs:			
CTDEEP Property Transfer Forms (including environmental condition assessment form (ECAF)	$2,500	--	$2,500
Public Notice	$1,780		$1,780
Abatement Monitoring	$31,273	--	$34,400
Construction Monitoring (includes lab allowance for confirmatory sampling)	$15,000	--	$15,000
ECAF for Entering the VCP	$3,500	--	$3,500
Post Remediation and Compliance Groundwater Monitoring (includes replacement of eight (8) monitoring wells and lab analysis for four consecutive quarters and 2 annual sampling events)	$25,900	--	$25,900
LEP Site Verification Report	$5,000	--	$5,000
Meetings	$3,000	--	$3,000
Surveyor Costs for A-2 Survey Required for the ELUR	$5,000	--	$5,000
Legal Fees for the Recording of the ELUR on the City Clerk Land Record	$20,000	--	$20,000
	Engineering Costs Subtotal:		**$116,080**
	Total Project Cost:		**$775,558**

NOTES:

1) Abatement costs come from the Eagle Report on "Pre-Renovation/Demolition Hazardous Building Materials Inspection ReportFormer River House1 Main StreetEast Haddam, ConnecticutEagle Project No. 18-144.10T3.

2) Abatement costs come from the Eagle Report on "Pre-Renovation Hazardous Building Materials Inspection ReportFormer Town Office7 Main StreetEast Haddam, ConnecticutEagle Project No. 18-144.10T4

3) Abatement cost comes from Eagle Report on "Pre-Renovation/Demolition Hazardous Building Materials Inspection ReportFormer Town Garage1 Main StreetEast Haddam, ConnecticutEagle Project No. 18-144.10T2

4) Refer to Figure REM-1 for the location of potential Arsenic Impacted Soil Excavations. Opinion of Contractor Costs includes excavation, staging, loading and on site reuse or off-site disposal of metals impacted soil. Cost also includes backfilling the metals impacted soil excavation with imported clean structural fill.

5) The above Opinion of Contractor Cost presumes open market bidding and does not include any allowance for Davis-Bacon (prevailing wage) requirements.

6) Actual costs will vary.

APPENDIX A

PREVIOUS REPORTS

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

PHASE I
ENVIRONMENTAL SITE ASSESSMENT
OF
1 & 7 MAIN STREET
East Haddam, Connecticut

MARCH 2002

Prepared for:

Town of East Haddam
East Haddam, Connecticut

Prepared by:

Shanahan Consulting
Farmington, Connecticut
Document No. 0207R01.WPD

SIGNATURE OF ASSESSOR

This assessment was performed by the individual whose signature appears below. Questions regarding this report should be directed to this person.

Edward W. Shanahan
Senior Scientist

QUALIFICATIONS OF ASSESSOR

Edward W. Shanahan has over 20 years experience as an environmental consultant, including over 16 years focusing on site assessments and other subsurface contamination studies in Connecticut. Mr. Shanahan has evaluated environmental conditions on hundreds of properties, ranging from undeveloped lots to complex industrial facilities. For six years, he managed the completion of site assessments at Haley & Aldrich Inc. (1986-89) and Ground Water, Inc. (1989-92). In December 1992, he founded Shanahan Consulting, a firm specializing in site assessments and reviews of site assessments.

Mr. Shanahan received a Bachelor of Science degree with distinction in Civil & Environmental Engineering from Cornell University in 1973 and a Master of Science degree in Environmental Earth Sciences from Stanford University in 1974.

Mr. Shanahan is a Licensed Environmental Professional [LEP] in the State of Connecticut.

TABLE OF CONTENTS

Page

I. SUMMARY 1

II. INTRODUCTION 2
- A. Purpose
- B. Location
- C. Scope of Work
- D. Previous Studies

III. DESCRIPTION OF SITE 5
- A. Land and Buildings
- B. Abutting Properties
- C. Utilities
- D. Observations During Site Visit
- E. Geology
- F. Ground Water
- G. Surface Water

IV. HISTORY OF SITE USE 11
- A. Site Occupants
- B. Site Owners
- C. Review of Aerial Photographs

V. USE OF OILS AND CHEMICALS AND WASTE DISPOSAL 14
- A. Petroleum Storage Tanks
- B. Other Use of Oils and Chemicals
- C. Floor Drains and Septic Systems

VI. REVIEW OF REGULATORY FILES 18
- A. Review of Connecticut DEP Files
- B. Review of Environmental Databases
- C. Review of Municipal Records

VII. POTENTIAL OFF-SITE ENVIRONMENTAL CONCERNS 22

VIII. CONCLUSIONS AND RECOMMENDATIONS 24
- A. Likelihood of Subsurface Contamination On Site
- B. Other Issues
- C. Recommendations

IX. LIMITATIONS 28

SOURCES OF INFORMATION 29

FIGURES

Figure 1 - Site Location Map

Figure 2 - Site Plan

TABLES

Table 1 - Potential Off-Site Environmental Concerns

APPENDICES

Appendix A - Well Logs and Chemical Test Data from Draft Report by Land-Tech Consultants

Appendix B - Sanitary Sewer Connection Records

Appendix C - Chemical Tests of Site Supply Well

Appendix D - DEP Tank Registration and Other Tank Data

Appendix E - Manifests from January 2000 Waste Removal Action

Appendix F - Significant Environmental Hazard Notification and Related Well Tests

Appendix G - 1991 DEP Spill Report

I. SUMMARY

Our Phase I Environmental Site Assessment of the properties at 1 & 7 Main Street in East Haddam identified the following potential environmental concerns: six former or current underground tanks (a seventh underground tank, installed in 2001, does not appear to pose a significant risk of contamination); (2) garage floor drains with unknown discharge locations; (3) the possible storage or dumping of oil and chemical wastes outside the garage building; (4) a former septic system that served both the River House and the garage building; (5) the presence of an unknown blue residue (possibly paint flakes) on the ground behind the storage building at 7 Main Street; and (6) a possible fuel pump on a 1932 map on the 7 Main Street property.

We recommend the following actions to further evaluate subsurface contamination on site: (1) perform a magnetometer survey, (2) excavate and remove underground tanks remaining on site, (3) perform an elevation survey of site monitor wells and determine ground water flow direction, (4) perform a soil vapor survey and soil testing under the floor of the garage, and (5) perform a Phase III Site Assessment consisting of test borings, monitor wells, and chemical testing to evaluate the extent and degree of contaminant source areas identified on the site.

We recommend that an attorney be consulted to evaluate whether the property at 1 Main Street is an "establishment" under the Connecticut Transfer Act. The property at 7 Main Street does not appear to be an "establishment".

Suspect asbestos pipe insulation was observed in the basement of the town hall. We recommend that a licensed asbestos consultant or contractor be requested to inspect and recommend actions to address the suspect asbestos.

The site was historically occupied by residences. From 1911 to 1973, the Connecticut Department of Transportation operated a bridge maintenance garage at 1 Main Street and the Town of East Haddam later operated their Department of Public Works garage at this address. The 7 Main Street property has been occupied by a lumber company and by the East Haddam town hall.

Local ground water is classified "GB" (degraded), but since the area is not served by public water, the site and nearby properties use individual supply wells.

We did not identify off-site properties that appeared to pose a significant threat of contaminating site ground water. However, our evaluation of the threat posed by off-site concerns was based on presumed, not measured, ground water flow patterns.

The work scope completed for this assessment included: a review of a previous report; historical research; a review of regulatory files and databases; personal interviews; and a site visit.

II. INTRODUCTION

A. Purpose

The purpose of this Phase I Environmental Site Assessment is to evaluate whether or not subsurface contamination by oils or hazardous chemicals exists on the site.

B. Location

The site is located on the northern side of Main Street (Route 82), on the bank of the Connecticut River, in the center of the Town of East Haddam. Refer to Figure 1 for site location.

C. Scope of Work

The following tasks were performed for this assessment:

1. A review of an unfinished draft version of a 12 December 2000 Environmental Site Assessment report prepared by Land-Tech Consultants, Inc. [Land-Tech].

2. A review of aerial photographs, historical maps, and city directories.

3. A review of numerous environmental databases listing known or suspected locations of subsurface contamination.

4. A review of selected files at the Connecticut Department of Environmental Protection [DEP].

5. A review of data at the offices of the assessor, building department, land use office, and town clerk of East Haddam. We also interviewed the director of the East Haddam Department of Public Works [DPW] and the former town fire marshal.

6. Interviews with employees of the Town of East Haddam [site owner/occupant], employees of the Connecticut Department of Transportation [DOT] [site occupant and former site owner], Michael Bartos, Jr. of Land-Tech, Dan Maus of Maus & Son [site oil dealer and plumbing contractor], Andrew Lord [attorney for the town], and Shire Corporation [tank removal contractor].

7. A review of hydrogeologic data for the area.

8. A visit to the site to view surface conditions.

The work scope did not include the chemical testing of soil or ground water samples, but this report presents chemical testing data

collected on site by previous investigators.

D. Previous Studies

Ned Shanahan reviewed an unfinished draft 12 December 2000 Environmental Site Assessment report prepared by Land-Tech for the site.

After evaluating potential environmental concerns on the site, Land-Tech completed limited subsurface explorations consisting of the drilling of four borings (MW1-MW4), three of which were completed as monitor wells (MW1-MW3). Ground water was not encountered in MW4 and a well was not constructed. MW1 was drilled south of the River House office building where apparent contamination associated with a dry well or septic tank had reportedly been encountered in 1995 during excavation work by the Town of East Haddam. MW2 was located outside the southwest corner of the garage building near a former underground gasoline tank. MW3 was drilled adjacent to a former underground gasoline tank removed from the 7 Main Street property in January 2000. Figure 2 shows the approximate locations of the wells. Appendix A presents the logs for the four borings.

Land-Tech reported that soils observed in the borings did not exhibit odors or stains. Soil samples collected at depths of 5-7 feet in MW2 and MW3 were tested in a laboratory for Total Petroleum Hydrocarbons [TPH] by EPA Method 418.1, volatile organic compounds [VOCs] by EPA Method 8260, and for eight RCRA metals by both mass analysis and TCLP methods. The results of the soil tests are presented in Appendix A and are summarized in the table below.

SOIL TEST DATA
1 & 7 Main Street, East Haddam, Connecticut

CONTAMINANT	MW2 5-7 ft.	MW3 5-7 ft.	POLLUTANT MOBILITY CRITERIA	DIRECT EXPOSURE CRITERIA	
				Residential	Commercial
TPH (ppm)	200	54	500	500	2500
VOCs (ppb)	ND	ND	Varies	Varies	Varies
arsenic (ppm)	3.5	5.6	NA	10	10
barium (ppm)	28	33	NA	4700	140,000
chromium (ppm)	18	28	NA	3900	51,000
lead (ppm)	31	8.5	NA	500	1000
TCLP metals (ppm)	ND	ND	Varies	NA	NA

Notes: 1. ND means not detected. NA means criteria not applicable to this parameter. NE means no criteria established.
2. Criteria taken from the DEP Remediation Standard Regulations. The Pollutant Mobility Criteria for "GA" areas has been used since ground water is not present in overburden deposits throughout the site.

The soil test data do not exceed remediation criteria established in the DEP Remediation Standard Regulations [RSRs].

On 28 July 2000, ground water samples were collected from each of the three wells and tested for TPH by Method 418.1, VOCs by Method 8260, and for eight RCRA total metals (unfiltered water samples were used for the metal tests). On 15 November 2000, the three monitor wells were sampled again and the samples were tested for pesticides by EPA Method 8081. The results of the ground water tests are presented in Appendix A and are summarized below.

GROUND WATER TEST DATA
1 & 7 Main Street, East Haddam, Connecticut

CONTAMINANT	MW1	MW2	MW3	GROUND WATER PROTECTION CRITERIA	SURFACE WATER PROTECTION CRITERIA	VOLATILIZATION CRITERIA	
						Residential	Commercial
TPH (ppm)	1.8	1.4	ND	0.5	NE	NA	NA
toluene (ppb)	5.5	ND	ND	1000	4,000,000	23,500	50,000
chloroform (ppb)	2.0	1.9	ND	6	14,100	287	710
pesticides	ND	ND	ND	Varies	Varies	NA	NA
arsenic (ppb)	16	47	ND	50	4	NA	710
barium (ppb)	180	380	30	1000	NE	NA	NA
chromium (ppb)	200	250	ND	50	NE	NA	NA
lead (ppb)	ND	570	ND	15	13	NA	NA

Notes: 1. ND means not detected. NA means criteria not applicable to this parameter. NE means no criteria established.
2. Criteria taken from the DEP Remediation Standard Regulations. Ground Water Protection Criteria have been shown in the table even though the site is in a "GB" ground water area due to the local use of supply wells.

The concentrations of TPH in the ground water samples from MW1 and MW2 exceed the Ground Water Protection Criteria [GWPC] established in the RSRs. The relative absence of VOCs in the samples suggests that the TPH detection may not represent ground water contamination. Re-analysis of ground water from the wells by the Extractable Total Petroleum Hydrocarbon [ETPH] may demonstrate that the TPH detections are not due to the presence of petroleum spills.

The concentrations of total arsenic in the MW1 and MW2 water samples exceed the Surface Water Protection Criteria [SWPC]. The concentration of chromium in MW1 and MW2 exceed the GWPC. The concentration of lead in MW2 exceeds the GWPC and the SWPC. We suspect that the metal exceedances may be the result of silt in the unfiltered samples and may not represent ground water contamination. Re-sampling of the wells may indicate that ground water is not significantly contaminated with metals.

III. DESCRIPTION OF SITE

A. Land and Buildings

The approximately 2.75-acre site consists of two parcels of land as follow: (1) approximately 1.56-acre parcel at 1 Main Street designated as Lot 14 on assessor's map 17 and (2) approximately 1.19-acre parcel at 7 Main Street designated as Lot 15 on map 17.

The 1 Main Street parcel is occupied by a former Town of East Haddam Department of Public Works [DPW] garage (largely vacated in December 2000), by an office building used by the State Police and by the Town of East Haddam (commonly called the "River House"), by a small shed outside the northwest corner of the garage, and by an emergency generator house operated by the State of Connecticut Department of Transportation [DOT]. The DOT generator house is located on a 0.098-acre perpetual easement ceded by the Town of East Haddam to the State of Connecticut in 1985 for the operation of the adjoining Connecticut River drawbridge.

The 7 Main Street parcel is occupied by the town hall of East Haddam and by a rear storage building and adjoining vacant shed. the storage building is used by the Goodspeed Opera House for the storage of theater equipment.

Figure 2 provides a plan of the site.

The garage at 1 Main Street is a one-story structure with no basement that was apparently erected in stages from circa 1911 to circa 1950 (see Figure 2 for approximate dates of construction for various portions of the building). The office building (River House) includes two upper floors and a basement and was erected in circa 1911. The DOT generator house was built in circa 1988 and is one-story in height.

Former buildings at 1 Main Street included: (1) a former residence near Main Street that was erected before 1874 and was demolished in 1903, (2) a former office building used by the DOT that was erected south of the River House in circa 1911 and was torn down before 1935, and (3) a small blacksmith shop and a small storage shed that were located in the area of the circa 1950 addition to the garage from circa 1911 to the 1940s.

The town hall at 7 Main Street was erected as a residence prior to 1874. The town hall has two upper floors and a basement. The rear storage building and adjacent shed at 7 Main Street are one-story buildings with no basements.

Former buildings at 7 Main Street consisted of various small sheds on the northern part of the property that were in place from the late 1880s to early 1900s.

The ground surface on the site slopes downward toward both the west (toward the adjoining Connecticut River) and to the south (toward Main Street).

B. Abutting Properties

The site is located in a mixed residential and commercial area. The site parcels are bounded as follows: (1) on the north by a residence at 2 Broom Street and by Broom Street (and by a residential property across Broom Street); (2) on the west by the Connecticut River; (3) on the south by Main Street (and across Main Street by the Goodspeed Opera House at 6 Main Street and by the Gelston House [inn and restaurant] at 8 Main Street); and (4) on the east by a residence at 17 Main Street, by a real estate office at 15 Main Street, and by a store [Wallflowers by Design] at 9 Main Street.

C. Utilities

The town hall at 7 Main Street and the office building and former garage at 1 Main Street have reportedly been connected to the public sanitary sewer system since 1999 (see connection records in Appendix B). Prior to 1999, the town hall was served by a septic system located north of the building. The garage and the River House office building were served by a single septic system located south of the River House that was installed by the DOT in 1971. Prior to 1971, wastes from the garage and the River House apparently went directly to the Connecticut River.

The site buildings are served by a supply well located west of the 1 Main Street garage. Public water systems do not service the area. Reportedly, site occupants use bottled water and do not consume the well water.

A dug well, located between the town hall and the rear storage building at 7 Main Street, formerly provided water to the town hall property. The well recently became inactive when the town extended a water line from the supply well at 1 Main Street onto the 7 Main Street property.

The site buildings are heated by oil.

D. Observations During Site Visit

Ned Shanahan of Shanahan Consulting visited the site on 19 March 2002 to observe surface conditions. Pete Linko, the director of public works for the Town of East Haddam, answered questions during the site visit. The site was free of snow cover on the day of the inspection.

1. Interior Observations

Office Building at 1 Main Street (River House)

The upper floors of the office building are occupied by the Town of East Haddam and by the resident state police trooper. The basement and attic are used for storage.

Oils and chemicals were not observed in the building with the exception of a 275-gallon tank of heating oil in the basement. The oil tank did not appear to be leaking.

No floor drains or suspect friable asbestos materials were observed in the River House.

Former DPW Garage Building at 1 Main Street

The garage building is divided into three parts: a southern vehicle bay, a central area used by a theater group, and a northern area used by the town for storage.

The northern area included two 275-gallon tanks above the floor. The tank on the western end appeared to be an inactive, empty, former heating oil tank, while the tank on the eastern end was used to store oil to heat the building. The two tanks did not appear to be leaking. Two sealed 55-gallon drums of unknown contents were observed in the eastern end of the central area used by the theater group.

Two sealed floor drains were observed in the southern vehicle bay. A third sealed floor drain was reportedly located in the central bay, but a rug covered the apparent drain location. Ned Shanahan did not observe a fourth sealed drain in the northern area, but Mike Bartos of Land-Tech reported that a drain is located in this area and that it had been sealed (the drain may have been covered by stored items on the day of our site visit).

Ned Shanahan did not observe suspect friable asbestos materials in the garage building.

DOT Generator House at 1 Main Street

The small generator house included an emergency generator to operate the drawbridge. No oils or chemicals, floor drains, or suspect friable asbestos materials were observed in the building.

Town Hall at 7 Main Street

The town hall includes two upper floors of offices and a basement used for storage. No oils or chemicals were observed in the town hall.

The basement includes a 275-gallon heating oil tank and a sump and pump to remove water that occasionally enters the basement. No floor

drains were observed. Approximately 200 linear feet of suspect asbestos pipe insulation, some exhibiting damage, were observed in the basement.

Rear Storage Building and Shed at 7 Main Street

The storage building at 7 Main Street contains theater equipment used by the Goodspeed Opera House. An inactive oil-fired furnace and an empty 55-gallon drum labeled "motor oil" in a wooden drum rack were observed in the southwest corner of the building. Several 5-gallon pails of apparent waste motor oil were also seen in the southwestern part of the building. The building did not appear to include plumbing facilities (i.e. no bathrooms or sinks were observed).

No floor drains, oils or chemicals, or suspect friable asbestos materials were observed in the adjoining shed. A few oily stains were noted on the wooden floor of the shed, which is elevated above the underlying ground surface by an open crawl space. The shed included a few old engines and some metal parts.

2. Outdoor Observations

The 1 Main Street property includes the three buildings (River House offices, garage, generator house), a paved driveway and parking area outside the western and southern ends of the garage, and a lawn area south of the River House on the bank of the river.

The property at 7 Main Street includes the town hall and the rear storage building and shed, as well as a paved driveway and parking lot near the town hall, a rear gravel-covered lot behind the storage building, and a steep brushy slope on the western end of the property leading up to Broom Road.

Evidence of former or current petroleum storage tanks on site included: (1) a pavement patch outside the southwest corner of the garage for a reported former underground tank [labeled UST#1 on Figure 2]; (2) two sets of fill and vent pipes for two apparent underground tanks outside the eastern wall of the garage building [UST#3 and UST#4] (the fill and vent for UST#3 was labeled "Fuel #3" on the adjoining wall); (3) a vent pipe outside the southwestern corner of the storage building at 7 Main Street for a possible underground tank (no fill pipe was found) [labeled UST#5]; (4) a metal clip similar to those used to hold tank vent pipes was observed on the southern wall of the shed behind the town hall apparently from the underground gasoline tank removed from this area in January 2000 [UST#6]; (5) a set of fill and vent pipes and two nearby tank monitor wells outside the southern wall of the DEP generator house for the reported underground diesel fuel tank [UST#7]; (6) a set of fill and vent pipes outside the northern wall of the town hall (although the set of pipes were some distance from the wall, they reportedly serve the basement tank in the building); (7) a set of fill and vent pipes outside the eastern wall of the garage which connect to an indoor heating oil tank; and (8) a set of fill and vent pipes protruding from the eastern wall of the River House which serve

the basement heating oil tank.

Three ground water monitor wells, reportedly installed by Land-Tech in 2000, were observed on the site.

On-site evidence of spills or disposal observed during the site visit was limited to two areas near the rear storage building at 7 Main Street, as follows: (1) an approximately 3 foot by 2 foot oily surface stain under a metal frame formerly used to store highway equipment located off the northern edge of the gravel lot behind the storage building - the stain was excavated with a hand shovel, was found to be limited to the ground surface, and was judged to be insignificant and (2) a blue residue (possibly paint flakes) observed in surface soils and covering approximately 8 feet by 3 feet outside the northeast corner of the storage building at 7 Main Street.

E. Geology

The published Surficial Materials Map of Connecticut indicates that the site is covered by glacial till, an unsorted mixture of sediment ranging in size from clay to boulders.

Borings drilled on the site in August 2000 for the Land-Tech site assessment encountered overburden materials consisting largely of sand and silt with some gravel.

The published Bedrock Geological Map of Connecticut indicates that bedrock on site consists of a mixture of schist and gneiss. Bedrock occurs at shallow depths and is exposed at the ground surface on the southwestern part of the site. The Land-Tech borings encountered bedrock at the following depths below ground surface: MW1 - 4½ feet, MW2 - 8 feet, MW3 - bedrock not encountered in drilling to 20 feet, and MW4 - approximately 10½ feet.

F. Ground Water

1. General Information

Ground water beneath the site is classified "GB", indicating that ground water is known or presumed to be degraded and may not be suitable for drinking purposes without treatment. The cleanup of spills in "GB" areas is generally governed by more lenient requirements than in areas where ground water is regulated as drinkable ("GA" areas).

Surface topography suggests that overburden ground water may flow toward the west or south. Predictions of ground water flow patterns based on surface topography may be inaccurate. The flow of ground water in bedrock formations is also controlled by fracture patterns in the rock.

A 1984 DEP map of community water systems in Connecticut shows no public drinking water wells within approximately one mile of the site. The site is not shown within Aquifer Protection Areas mapped by the Connecticut DEP.

2. Site Supply Wells

Dan Maus of Maus & Son [plumbing contractor] reported that the active supply well west of the DPW garage is approximately 100-120 feet deep and apparently taps the bedrock aquifer (based on the shallow exposures of bedrock reported on site).

The inactive dug well on the 7 Main Street property is reportedly 20 to 24 feet deep (according to Dan Maus).

The Connecticut Department of Public Health [DPH] regulates the active site supply well as a Transient Non-Community public water system and requires quarterly tests of the well water for coliform bacteria and physical parameters (pH, color, odor, turbidity) and annual tests for nitrate and nitrite. The DPH sent a 26 October 2001 violation letter to the Town of East Haddam for its failure to perform the required testing.

Appendix C presents water quality data for the site supply wells. The data include samples collected on 17 March 1992 (apparently from both the current supply well and from the inactive dug well) that showed no coliform bacteria detections. On 30 August 2000, Land-Tech collected a water sample from the supply well at 1 Main Street and tested the water for TPH (not detected) and eight RCRA metals (lead detected at 2 ppb and other metals not detected). Finally, in response to the 2001 request from the Connecticut Department of Public Health, the supply well was tested 28 February 2002 and no coliform bacteria were detected. An additional test of the supply well for nitrate and nitrite is pending according to town building official Wayne Green. The various supply well test data reviewed by Shanahan Consulting did not reveal exceedances of drinking water standards.

G. Surface Water

Connecticut River, which adjoins the site to the west, is classified SB by the DEP, indicating that the tidal river is degraded.

Succor Brook, located approximately 300 feet south of the site, is classified "B/A" by the DEP, indicating that the stream is presently degraded, but the DEP regulates discharges to the brook with the goal of improving its water quality.

Flood Insurance Rate Maps show a 100-year flood at an elevation of 11 feet NGVD in the river reach adjoining the site. The developed areas of the site are not located within the flood plain.

IV. HISTORY OF SITE USE

A. Site Occupants

Historical maps, city directories, municipal records, and personal interviews were used to evaluate the history of site use.

Usage of 1 Main Street is summarized as follows:

OCCUPANTS OF 1 MAIN STREET	
DATE	**ACTIVITY**
At least 1874 to 1903	Residence near Main Street.
1903 to 1911	Property largely vacant except for old ice house associated with former residence.
1911 to 1973	Operations of the Connecticut DOT on property, including residence (the "River House") for operator of drawbridge and maintenance garage.
1973 to 2000	The former River House used for offices and former DOT garage used as a garage by the East Haddam DPW. DOT operates generator house on southwest corner of property.
2000 to present	Garage building used for storage and by a theater group. Offices continue in the River House and DOT continues to operate generator house.

We did not determine the initial date of the development of 1 Main Street. The residence of W.H. Goodspeed is shown on the property on an 1874 county atlas reviewed for this assessment.

Usage of 7 Main Street is summarized as follows:

OCCUPANTS OF 7 MAIN STREET	
DATE	**ACTIVITY**
At least 1874 to circa 1936	Residence.
Circa 1936 to 1938	A bank apparently occupied the former residence.
Circa 1939 to 1957	Lumber company operated by Consolidated Building Materials Co. and later by Diamond Match Company [DBA East Haddam Coal & Lumber Company] used former residence as an office and used a newly-erected storage building on the rear part of the property. Town of East Haddam also rented some office space for town offices on second floor of the former residence beginning in 1939.
1957 to present	Former residence operated as East haddam town hall, while rear building used for storage.

The initial date of development of 7 Main Street was not determined. The 1874 atlas shows the residence of T. Gross, Jr. on the property.

Sanborn Fire Insurance Maps of East Haddam dated 1884, 1889, 1895, 1903, 1908, 1925, and 1935 depict the site. Of environmental significance, the Sanborn Map of 1925 shows an underground gasoline tank outside a former office building at 1 Main Street. The 1935 Sanborn Map shows another underground gasoline tank outside the southwest corner of the present garage structure and indicates that the DOT garage operation includes: a blacksmith shop, a machine shop, bridge construction & fabrication, and paint storage.

B. Site Owners

Our research of site history included a review of land records at the East Haddam town clerk's office.

Owners of **1 Main Street** have included: Town of East Haddam (1973 to present); State of Connecticut (1911 to 1973); and William H. Goodspeed (undetermined period prior to 1911).

Owners of **7 Main Street** have included: Town of East Haddam (1957 to present); The Diamond Match Company (1947 to 1957); Consolidated Building Materials, Inc. (1939 to 1947); Consolidated Building Materials, Inc. [front part of parcel] and Elmer N. Peck [rear part] (1938 to 1939); The National Bank of New England [front part] and Elmer N. Peck [rear part] (1937 to 1938); The National Bank of New England [front part] and Helen F. Dickinson [rear part] (1936 to 1937); Hampton D. Ewing [front part] and Helen F. Dickinson [rear part] (1936); Florence G. Hatstat [front part] and Helen F. Dickinson [rear part] (1923 to 1936); and Ellen A. Gross [front part] and Helen F. Dickinson [rear part] (1920 to 1923).

C. Review of Aerial Photographs

Our assessment included a review of aerial photographs dated 1934, 1951, 1965, 1970, 1975, 1980, 1986, 1990, and 1995. The 1934 and 1951 photographs were viewed at the Connecticut State Library and the 1965-95 photographs were borrowed from the Connecticut DEP.

The 1934 aerial photograph shows the DOT garage and the "River House" residence on the 1 Main Street parcel and a residence and rear sheds on the 7 Main Street property. In 1934, the garage building at 1 Main Street did not include the east central addition erected in circa 1950.

The development of the site looks similar to current conditions beginning on the 1951 aerial photographs with the construction of the rear storage building at 7 Main Street and the completion of the garage at 1 Main Street. We observed little change in site buildings on the 1970, 1975, 1980, 1986, 1990, and 1995 photographs with the exception of the construction of the current DOT bridge generator house between the 1986 and 1990 photographs.

We did not observe evidence of waste disposal activities (i.e. landfill operations) on site in the nine photograph sets. Some apparent storage is noted on the western edge of the rear gravel lot behind the storage building at 7 Main Street on the 1965 through 1995 photographs (the area was reportedly used for equipment storage by the East Haddam DPW).

V. USE OF OILS AND CHEMICALS AND WASTE DISPOSAL

A. Petroleum Storage Tanks

Appendix D presents DEP tank registration forms and other data available concerning petroleum storage tanks on the site.

1. Underground Tanks

Our research has documented the presence of seven former or current underground storage tanks on the site, as is described in the table below.

FORMER AND CURRENT UNDERGROUND STORAGE TANKS
1 & 7 Main Street, East Haddam, Connecticut

TANK	DESCRIPTION
UST#1	Former gasoline tank removed from in front of garage building sometime after 1991. The tank, which was apparently either 1000 gallons or 2000 gallons in size, had been inactive since 1989. A gasoline tank had been shown at this location as early as 1935 (on Sanborn Map).
UST#2	Former gasoline tank shown on 1925 Sanborn Map, but not present on subsequent Sanborn Map of 1935. Size of tank unknown.
UST#3	An apparent 1000-gallon heating oil tank reportedly installed by the Connecticut DOT before 1973 when the town acquired the lot. The tank is inactive.
UST#4	An apparent 1000-gallon gasoline tank installed by the DOT prior to 1973. Tank is inactive.
UST#5	Vent pipe on wall of storage building suggests the former or current presence of an underground tank, possibly a heating oil tank since the oil burner is located in the same corner of the building where the vent pipe was observed.
UST#6	Former 1000-gallon gasoline tank reportedly removed by the town in January 2000. No soil samples collected from tank grave.
UST#7	Active 300-gallon diesel fuel tank installed in 2001 by the DOT to serve the emergency generator for the drawbridge. DOT employee reported that the tank includes double containment and two vapor monitoring wells.

The approximate locations of the seven underground tanks are shown on Figure 2.

2. Aboveground Tanks

We identified four **outdoor** former or current aboveground storage tanks, as described below (see Figure 2 for approximate locations).

FORMER AND CURRENT OUTDOOR ABOVEGROUND TANKS 1 & 7 Main Street, East Haddam, Connecticut	
TANK	**DESCRIPTION**
AST#1	Former 550-gallon gasoline tank installed in October 1989 by the town and moved to new DPW garage on Parnassus Road in circa 2000.
AST#2	Former 550-gallon waste oil tank with built-in containment area. Tank recently moved to new DPW garage.
AST#3	Former 275-gallon heating oil tank outside the eastern wall of the garage building. Tank has been replaced by an indoor heating oil tank.
AST#4	Active 275-gallon heating oil tank used to heat the storage building at 7 Main Street.

We also identified four indoor heating oil tanks, each of 275 gallons capacity, as follows: basement tank in town hall at 7 Main Street, basement tank in River House office building at 1 Main Street, and two ground-floor tanks in northern end of the garage building at 1 Main Street. One of the two tanks in the garage building contained heating oil, but the second tank was empty and apparently inactive.

B. Other Use of Oils and Chemicals

1. Former DOT Bridge Maintenance Garage

The former Connecticut DOT bridge maintenance garage at 1 Main Street (circa 1911 to 1973) included garage repair bays, a machine shop, a blacksmith shop, and paint storage areas. These activities and the reported petroleum storage tanks discussed above suggest the use of the following oils and chemicals: gasoline, heating oil, lubricating oil, paints and paint thinners, machine oil, and possibly degreasing solvents. The machine shop was located in the southeastern corner of the garage, while the blacksmith shop was located in the area of the circa 1950 addition (see Figure 2).

A 1932 highway right of way map shows an unidentified "pump" on the southeastern corner of the property at 1 Main Street [see "Pump (1932)" on Figure 2]. We do not know if the pump was for dispensing petroleum fuel.

2. Town DPW Garage

The former DPW garage operations of the Town of East Haddam included vehicle repairs, landscaping, and other maintenance work. The DPW performed painting work prior to 1996, but ceased this activity after 1996. Oils and chemicals used at the garage (based on a review of waste shipment records, interviews with DPW personnel, and other information sources) included: heating oil, gasoline, corrosive

materials, motor oil, solvents (toluene, probably kerosene, paint thinners), and pesticides.

On 26 January 2000, several containers of various wastes and unused chemical products were removed from the garage and disposed of off site (see waste shipment data in Appendix E). Peter Linko of the East Haddam DPW reported that the material had been accumulated over a period of at least 12 years. The waste materials removed in January 2000 are summarized in the table below.

JANUARY 2000 WASTE SHIPMENT
7 Main Street, East Haddam, Connecticut

WASTE	RCRA WASTE CODES	QUANTITY
Toluene (unused product)	D001, U220	55 gallons
Waste paint related material (paint thinners)	D001, D035, F003, F005	130 gallons
Waste paint related material (unused paint)	D001, D007, D008, D035	110 gallons
Salt of herbicide 2,4-D (unused product)	D016, U240	30 gallons
Waste flammable solvents	D001, D037, F027	50 pounds
Waste corrosive liquid	D002	100 pounds
Waste motor oil	Not a RCRA waste	55 gallons
No. 6 heating oil (unused product)	Not a RCRA waste	55 gallons
Detergent (unused product)	Not a RCRA waste	60 gallons

Our review of the waste shipment records suggests that RCRA hazardous wastes removed on 26 January 2000 amounted to 325 gallons and 150 pounds (equivalent to a total of approximately 1297 kilograms). An additional 170 gallons of oily wastes (not RCRA hazardous wastes) were also disposed of. The hazardous wastes sent off for disposal consisted of approximately 737 kilograms of unused products and approximately 560 kilograms of generated wastes. The Town of East Haddam used a temporary EPA identification number for the shipment of hazardous wastes.

3. Other Occupants

We do not expect that the former lumber company at 7 Main Street (circa 1939 to 1957) used significant quantities of oils or chemicals.

We did not identify other operations on site that are expected to have used significant amounts of oils or chemicals with the exception of heating oil.

C. Floor Drains and Septic Systems

1. Floor Drains

Most of the available data on floor drains in the DPW garage was collected by Mike Bartos of Land-Tech during his investigation of the site in 2000.

Four floor drains are reported in the former DPW garage structure including one in the northern end of the building, one in the central part, and two in the southern part (see Figure 2 for approximate drain locations). All four drains were reportedly cleaned and sealed with cement in August 2000.

Prior to their sealing, an attempt was made to determine their discharge location, with the following results: (1) northern drain - the use of a drain "snake" indicated that the drain discharge pipe exited the garage to the west toward the Connecticut River with an unknown discharge location, our review of sanitary sewer connection data (see Appendix B) suggests that a single 7½-inch steel pipe carried waste from this part of the garage toward the Connecticut River until the pipe was connected to a newly-installed septic system south of the River House in June 1971, (2) central drain - flow test demonstrated that the drain discharged to a storm drainage catch basin and eventually to the Connecticut River via an open paved ditch near the DOT generator house, and (3) two southern drains - flow tests suggested that the two drains discharged toward one another in the central part of the bay floor, the location of their common discharge not determined but a possible dry well under the floor was considered a possibility.

2. Septic Systems

A septic system was formerly located outside the northern end of the town hall building at 7 Main Street until the system was abandoned in circa 1999 when a connection was made to the public sanitary sewer system (see Appendix B).

A septic system was installed in the lawn area south of the River House at 1 Main Street in June 1971 to serve both the office building and the garage building to the east. The septic system was abandoned in circa 1999 when the buildings were connected to the public sanitary sewer system. Prior to 1971, wastes from the two buildings at 1 Main Street were apparently discharged directly to the Connecticut River.

VI. REVIEW OF REGULATORY FILES

A. Review of Connecticut DEP Files

A review of information on file with the Bureau of Water Management, the Oil & Chemical Spills Unit, the Waste Engineering & Enforcement Division, and the Underground Storage Tank Unit of the Connecticut DEP was conducted on 13 February 2002.

The review included the following specific resources:

1. the correspondence files of the Bureau of Water Management.
2. the correspondence files for the Waste Engineering & Enforcement Division.
3. administrative orders, lists of discharge permits, Notices-of-Violation, and P-5 inspection files kept by the Bureau of Water Management.
4. the Superfund town file for East Haddam.
5. underground tank registrations.
6. spill reports and correspondence kept by the Oil & Chemical Spills Unit.
7. hazard notification files kept by Ken Feathers of the DEP Bureau of Water Management.

We encountered the following references to the site in the DEP files:

1. a 10-13-00 wastewater discharge general permit for the 7 Main Street address issued to the Town of East Haddam department of public works for the discharge of stormwater related to construction activities. We are not aware of any construction activities on the site in October 2000 and suspect that the permit may have been associated with work at the off-site DPW garage that was incorrectly listed under the 7 Main Street address.
2. underground tank registration data (the correspondence file was not available, but a computer printout of the registered tanks was provided. Appendix D provides copies of the DEP tank registration forms found elsewhere during our research.
3. Significant Environmental Hazard Notification Report dated 9-6-00 and subsequent tests of nearby supply wells (see Appendix F). The chemical tests of the nearby supply wells are summarized in the table below.

GROUND WATER TEST DATA - NEARBY SUPPLY WELLS Concentrations in ppb								
WELL	DATE	Arsenic	Barium	Lead	Mercury	TPH	VOCs	SVOCs
2 Norwich Road	10-6-00	ND	30	7	ND	31,000	---	---
	12-26-00	---	---	---	---	---	ND	Phthalate 0.4
4 Norwich Road	10-6-00	7	ND	2	ND	30,000	---	---
	1-3-01	---	---	---	---	---	Bromoform 0.9	---
6 Main Street	10-6-00	ND	ND	2	0.2	14,000	---	---
9 Main Street	10-6-00	5	9	2	ND	ND	---	---
12 Main Street	1-6-00	4	ND	1	ND	ND	---	---
15 Main Street	10-6-00	ND	18	22	ND	ND	---	---
	12-26-00	---	---	18/4*	---	---	---	---
17 Main Street	10-6-00	8	ND	3	ND	ND	---	---
19 Main Street	10-6-00	ND	ND	2	ND	19,000	---	---
	12-26-00	---	---	---	---	---	ND	Phthalate 0.7
24 Lumberyard Rd	10-6-00	ND	30	3	ND	25,000	---	---
CT Drinking Water Action Levels		50	2000	15	2	**	Bromoform - 80	Phthalate - NE

Notes: 1. ND means not detected. VOCs are volatile organic compounds. SVOCs are semivolatile organic compounds.
2. * Two samples collected. "First draw" sample contained 18 ppb of lead and second sample collected after flushing pipes for 5 minutes contained 4 ppb lead.
3. ** TPH is a screening level test with no Action Level. The detection of TPH necessitates more refined testing.
4. NE means no limit established for phthalate in drinking water. Phthalates are found in samples due to contamination by plastic sampling materials.

The well tests performed in connection with the Significant Environmental Hazard Report were performed in two stages as follows: (1) Stage 1 - testing of supply wells within approximately 500 feet of contaminated site monitor wells for Total Petroleum Hydrocarbons [TPH] and metals and (2) Stage 2 - follow-up testing of three of five wells where elevated TPH had been detected (only affected residential wells were tested) for VOCs by Method 524.2, the testing of two wells for SVOCs (the third sample was not suitable for testing), and follow-up testing at 15 Main Street for lead (both a first draw and a flushed water sample).

The test results suggest that nearby supply wells have not been significantly affected by releases on site. The detection of various metals (particularly lead) in the nearby wells is likely due to the leaching of metals from the plumbing systems in the homes (as is demonstrated by the first draw and flushed samples at 15 Main Street). The detections of TPH in several wells appears to be due to the relative inaccuracy of the TPH test method since no significant levels of specific VOCs were identified in follow-up testing of three of the five affected wells. Bromoform was detected at a low concentration (below the drinking water limit) in the sample from 4 Norwich Road (such a detection usually indicates that the well had been recently chlorinated) and bis 2-ethylhexyl phthalate was detected at low levels in two water samples (probably due to the use of plastic sampling supplies).

4. a 1-9-91 DEP spill report documenting an anonymous report of underground tanks improperly abandoned and possibly leaking at the 7 Main Street garage (see Appendix G). The DEP inspected the garage and found three inactive underground fuel tanks that had been left in the ground while the town sought funds for their removal.

With the exception of the data described above, we did not encounter references to the site in our DEP file review.

B. Review of Environmental Databases

We reviewed the following 16 environmental databases of known or suspected locations of contamination or oil/chemical usage: (1) the State of Connecticut hazardous waste disposal site list; (2) the State of Connecticut Superfund Priority List; (3) the U.S. EPA Superfund National Priority Site List; (4) the U.S. EPA CERCLIS hazardous waste site inventory; (5) the U.S. EPA list of CERCLIS properties where no further remedial action is planned [NFRAP]; (6) the U.S. EPA list of RCRA Treatment, Storage, and Disposal Facilities (TSDFs); (7) the U.S. EPA list of RCRA Hazardous Waste Generators; (8) the U.S. EPA Emergency Response Notification System (ERNS) list of spills; (9) the DEP list of active solid waste landfills; (10) the DEP LUST list (leaking underground storage tanks); (11) the DEP Leachate and Wastewater Discharge Sources Maps (which show the locations of landfills, leaking underground tanks, wastewater lagoons, road salt piles, and other contaminant sources known to the DEP); (12) the DEP list of filings under the Transfer Act; (13) the DEP list of registered underground storage tanks; (14) the DEP Site Discovery & Assessment Data Base; (15) the DEP list of Environmental land use Restrictions [ELURs], and (16) the DEP list of residential underground storage tank removals.

The former public works garage at 7 Main Street was included on the LUST list in connection with the 1991 anonymous report of improperly abandoned tanks.

The site was not included in the remaining environmental databases reviewed for this assessment.

C. Review of Municipal Records

On 19 March 2002, Ned Shanahan reviewed data at several municipal offices of the Town of East Haddam, as follows: (1) assessor (assessor's map, current computer field card, and field cards for 1964, 1974, and 1984); (2) town clerk (deeds and maps); (3) building department (building permits, well test data for site supply well); and (4) land use department (topographic map of site area).

We interviewed Pete Linko of the department of public works during our inspection of the site.

The former East Haddam fire marshal (John Shanaghan) reported no additional data on underground tanks or spills on site. He provided some information on the history of site use. The current fire marshal (John Kananowicz) did not return our telephone message requesting information on the site.

VII. POTENTIAL OFF-SITE ENVIRONMENTAL CONCERNS

Our review of State and Federal inventories revealed the presence of spills or the threat of contamination at numerous nearby properties. Table 1 summarizes the results of our review.

The inventory research included a review of the following data sources:

1. the EPA National Priority Site List for locations within approximately one mile of the site.

2. the EPA list of RCRA Treatment, Storage, and Disposal Facilities (TSDFs) for locations within approximately one mile of the site.

3. the EPA CERCLIS list of hazardous waste disposal areas for locations in East Haddam within approximately one-half mile of the site.

4. the Connecticut Superfund Priority List of high priority hazardous waste disposal sites for locations in East Haddam within approximately one mile of the site.

5. the Connecticut hazardous waste disposal site list for locations in East Haddam within approximately one-half mile of the site.

6. the DEP Leachate and Wastewater Discharges Map for locations in East Haddam within approximately one-half mile of the site (referred to as "DEP Map" in Table 1).

7. the DEP list of active solid waste landfills for locations in East Haddam within approximately one-half mile of the site.

8. the DEP LUST list (leaking underground storage tanks) for locations in East Haddam within approximately one-half mile of the site.

9. the DEP Oil & Chemical Spills Unit spill reports and correspondence files of spill incidents for locations within approximately 500 feet of the site (referred to as "Spill Reports" in Table 1).

10. the DEP list of filings under the Transfer Act for locations adjoining the site.

11. the DEP list of registered underground tanks for locations adjoining the site (referred to as "Tank Registration" in Table 1).

12. the EPA Emergency Response Notification System (ERNS) list of spills for locations adjoining the site.

13. the EPA list of RCRA Hazardous Waste Generators for locations adjoining the site.

14. the DEP Site Discovery & Assessment Data Base for locations adjoining the site.

15. the DEP list of residential underground storage tank removals for locations adjoining the site.

16. the DEP list of properties subject to Environmental Land Use Restrictions [ELURs] for locations adjoining the site.

17. potential concerns identified in the immediate vicinity of the site during our review of the Connecticut DEP files (referred to as "DEP Files") or during our historical research.

In general, our consideration of off-site threats did not include a review of possible sources of contamination in the adjacent Town of Haddam due to the presence of the Connecticut River (a significant hydraulic barrier) between the site and Haddam. However, as is required by the ASTM site assessment standards, we did search the National Priority List of hazardous waste disposal sites and the list of RCRA Hazardous Waste Treatment Storage & Disposal Facilities [TSDFs] for properties in both East Haddam and Haddam.

Using presumed ground water flow patterns based on surface topography, we concluded that the off-site concerns in Table 1 are apparently not upgradient of the site and therefore do not appear to pose a significant threat of contaminating site ground water.

VIII. CONCLUSIONS AND RECOMMENDATIONS

A. Likelihood of Subsurface Contamination On Site

Potential sources of subsurface contamination identified in our assessment included:

1. six former or current underground tanks. Of the six tanks, two were apparently removed from locations west of the garage building [UST#1, UST#2], two remain in the ground east of the garage [UST#3, UST#4], one is a suspected tank outside the storage building at 7 Main Street (marked by a vent pipe) [UST#5], and one was removed in January 2000 from a location between the town hall and the storage building [UST#6].

   No soil testing of the graves of the removed tanks has been reported. Monitor wells installed near UST#1 and UST#6 suggest that significant contamination may not be present at these tanks.

   A seventh tank, installed in 2001 adjacent to the DOT generator building, does not appear to pose a significant contamination threat due to its recent age and reported double containment design.

2. garage floor drains with unknown discharge locations. The drains have reportedly been sealed. One of the drains reportedly discharges to the local storm drainage system, but the discharge locations of the remaining drains are uncertain and may pose a threat of oily discharges to the ground.

3. the possible storage or dumping of oils and chemicals at the garage building by the DOT or the Town of East Haddam. The east central portion of the building, covered by a circa 1950 addition, could have served as an historical storage or dumping area.

4. a former septic system that served both the River House and the garage building. The septic system may have received oily wastes from the garage. We do not expect that a former septic system behind the town hall received significant amounts of oils or chemicals and this septic system does not appear to pose a significant risk of subsurface contamination.

5. the presence of an unknown blue residue (possibly paint flakes) on the ground behind the northeast corner of the storage building at 7 Main Street. The blue residue appeared to cover an area approximately 8 feet by 3 feet in size. An oily stain off the northern edge of the gravel lot behind the building appeared to be surficial in nature and is not considered significant.

6. a pump of unknown purpose (possibly to dispense fuel) shown on a 1932 map on the 1 Main Street property adjacent to Main Street.

7. a former aboveground waste oil tank and former and current aboveground heating oil tanks. The waste oil tank reportedly included a built-in containment basin, reducing the risk of spills to the ground. We did not observe evidence of spills on the ground near the reported tank locations. In general, the aboveground tanks do not appear to pose a significant risk of subsurface contamination.

2. Ground Water Quality

A test of the site supply well for metals and TPH did not detect significant contamination (a low level of lead was reported, likely due to leaching of lead from plumbing fixtures).

The sampling of three ground water monitor wells by Land-Tech detected elevated concentrations of TPH and metals, but did not detect significant concentrations of VOCs. The TPH detections in the absence of significant levels of VOCs raises the possibility that the TPH test result may not reflect contamination by oils or chemicals, but may be due to natural organic materials. The metal detections may be due to the presence of silt in the unfiltered ground water samples and may not reflect metal contamination of ground water. In our experience, metals are not generally transported significant distances in ground water except under conditions of heavy pollutant inputs (e.g. from the repeated disposal of metal solutions to wastewater lagoons). Further ground water testing may clarify whether significant releases have occurred on site.

B. <u>Other Issues</u>

Local ground water is classified "GB", indicating that ground water is known or presumed to be degraded and may not be suitable for drinking without treatment. However, the site and surrounding properties use ground water for supply purposes since public water systems do not serve the area. Reportedly, the water from the site supply well is not consumed.

The property at 7 Main Street does not appear to be an "establishment" under the Connecticut Transfer Act [C.G.S. 22a-134 through 134e]. The Transfer Act status of the 1 Main Street property is less certain. The act specifies that operations which generate more than 100 kilograms of hazardous waste in any one month are "establishments" subject to the act. In January 2000, approximately 1297 kilograms of hazardous wastes were removed from the former DPW garage at 1 Main Street. The materials removed had reportedly been accumulated for at least 12 years. The hazardous wastes included 560 kilograms of wastes generated by routine on-site activities (painting wastes) as well as 737 kilograms of unused chemical products. Assuming a 12-year period of generation, the waste generation rate for the 1297 kilograms would be less than 100 kilograms per month. However, the disposal of unused chemical products could be viewed as the

"instantaneous" generation of more than 100 kilograms of waste in the month of January 2000.

We did not conduct an asbestos inspection of the site buildings. However, during our walk through the buildings, we did look for suspect friable asbestos materials. In the basement of the town hall, we observed an estimated 200 linear feet of suspect friable asbestos pipe insulation, some of which exhibited damage. If demolition or renovation of buildings is planned, then formal asbestos inspections of those buildings would be warranted.

We did not identify spills on off-site properties that appeared to pose a significant risk of contaminating site ground water. However, our evaluation of the potential threat posed by off-site properties is based on inferred, not measured, ground water flow patterns.

C. Recommendations

The major focus of future actions would be the removal of sources of contamination (underground tanks, dry wells, contaminated soils exceeding DEP cleanup standards) and the initiation of a ground water monitoring program. If the property at 1 Main Street is determined by an attorney to be an establishment under the Transfer Act, then the recommended actions may be enough to prepare the property for a Form IV transfer which requires that necessary remedial actions have been taken, but future ground water monitoring is needed.

Shanahan Consulting recommends the following actions:

1. **Consult with an attorney regarding the applicability of the Transfer Act.**

An attorney should be requested to review our data and issue an opinion whether future transfers of the site (and in particular the 1 Main Street property) are subject to the Transfer Act.

2. **Address suspect asbestos pipe insulation in town hall basement.**

We recommend that a licensed asbestos consultant or contractor be requested to inspect the suspect pipe insulation and recommend actions (including estimated costs) to address the insulation.

3. **Complete a magnetometer survey for underground tanks.**

Estimated cost: $600

We recommend that a magnetometer survey be performed to explore for suspected underground tanks.

4. **Excavate and remove underground tanks.**

Estimated cost: Dependent on number and size of tanks to be removed. Removal of two underground tanks identified east of garage by a tank contractor may cost approximately $5000.

Underground tanks identified during our site visit and during the subsequent magnetometer survey should be excavated and removed. Soil samples should be collected from each tank grave (whether or not contamination is observed) and tested in a laboratory to document soil conditions. If contaminants exceed DEP cleanup criteria, then a soil removal program (at unknown cost) would need to be undertaken.

5. **Perform an Elevation Survey of Monitor Wells.**

Estimated cost: $400

We recommend that the three site monitor wells be surveyed and that ground water table elevations be determined to allow for a computation of ground water flow direction. In addition, the rim of the inactive dry well should be surveyed to provide for a possible fourth ground water elevation point from the water level in this well.

6. **Perform a soil vapor survey/soil sampling under the garage floor.**

Estimated cost: $1000

We recommend that soil vapors be collected through holes drilled through the floor of the garage near the floor drains in the southern part of the structure and in areas of building additions. If elevated vapor readings are noted, then soil samples should be collected for laboratory analysis by manually driving sampling rods into the sampling holes. The survey is intended to explore for possible floor drainage dry wells and historical storage/dumping areas that may be located under additions.

7. **Perform a Phase III Environmental Site Assessment.**

Estimated cost: At least $15,000. Cost uncertain until other work has been performed to identify areas of concern.

The Phase III Assessment would consist of the drilling of test borings, the installation of additional monitor wells, and the chemical testing of soil and ground water samples to evaluate the extent and degree of contamination at each area of concern identified on site.

IX. LIMITATIONS

The conclusions provided in this report are based on the scope of work conducted and the sources of information used in the course of this investigation. If additional pertinent information becomes available, it should be provided to Shanahan Consulting so that we may alter this report as necessary.

This assessment was performed to evaluate whether subsurface contamination involving oils or hazardous chemicals might be present on site. The report should not be used for any other purpose.

We did not inspect for asbestos-containing materials or lead paint in site buildings. However, we did note the presence of suspect friable asbestos materials if observed during the site visit.

The work was undertaken in accordance with generally accepted environmental consulting practices. No other warranty, express or implied, is made.

SOURCES OF INFORMATION

Aerial photographs of Connecticut: available at the Connecticut State Library for the years 1934, 1951/52, 1965, and 1970; available at the Connecticut Department of Environmental Protection for the years 1965, 1970, 1975, 1980, 1985/86, 1990, and 1995/96.

Assessor's maps of East Haddam, Town of East Haddam assessor's office.

"ASTM Standards on Environmental Site Assessments for Commercial Real Estate, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process", E 1527-00, American Society for Testing and Materials, 2000.

Beers, F.W., "Atlas of Middlesex, Connecticut", 1874.

Bingham, J.W., F.D. Paine, and L.A. Weiss, "Hydrogeologic Data for the Lower Connecticut River Basin, Connecticut", Connecticut Water Resources Bulletin No. 30, 1975.

City Directories for East Hampton and East Haddam, Connecticut, 1967, 1969, 1971, 1974-75.

City Directories for Meriden (including East Haddam), Connecticut, 1993 to 2000.

Connecticut Department of Environmental Protection, "Connecticut Aquifer Protection Areas", September 2000.

Connecticut Department of Environmental Protection, "Community Water Systems in Connecticut, A 1984 Inventory", 1986.

Connecticut Department of Environmental Protection, "Inventory of Hazardous Waste Sites in Connecticut and Recommendations for Continuing Action", 4/5/00.

Connecticut Department of Environmental Protection, List of Active Landfills, November 2000.

Connecticut Department of Environmental Protection, List of Environmental Land Use Restrictions, 10/1/01.

Connecticut Department of Environmental Protection, List of Filings under the Transfer Act, 6/21/01.

Connecticut Department of Environmental Protection, LUST List, 9/21/00.

Connecticut Department of Environmental Protection, List of Registered Underground Storage Tanks, 8/10/01.

Land-Tech Consultants, Inc., Draft Version of "Environmental Site Assessment of 1 & 7 Main Street, East Haddam, Connecticut", 12/12/00, provided by Mike Bartos of Land-Tech Consultants.

"Map Showing Easement Acquired from the Town of East Haddam by the State of Connecticut", prepared by the State of Connecticut, 2/15/85, East Haddam Town Clerk Map No. 1585.

"Map Showing Land Released to the Town of East Haddam by the State of Connecticut, Route 82", prepared by the State of Connecticut, June 1973, map copied at the offices of the Connecticut DOT.

"Property Survey for Town of East Haddam in East Haddam, Connecticut", prepared by Richard Ziobron, 3/14/88, East Haddam Town Clerk Map No. 3174.

"Right of Way Map, Town of East Haddam, East Approach to East Haddam Bridge From the East Haddam Bridge Easterly to the Moodus Road, Route No. 82", prepared by the Connecticut State Highway Department, 8/31/32 with minor revisions of 11/8/60 and 11/28/73, DOT Map No. 40-05, Sheet 1 of 1, copy obtained at the offices of the Connecticut DOT.

Rodgers, John, "Bedrock Geological Map of Connecticut", U.S. Geological Survey, 1985.

Sanborn Fire Insurance Maps of East Haddam, Connecticut, 1884, 1889, 1895, 1903, 1908, 1925, and 1935.

Stone, J.R., J.P. Schafer, E.H. London, and W.B. Thompson, "Surficial Materials Map of Connecticut", U.S. Geological Survey Map.

"Topographic Map Land Surrounding East Haddam Town Hall, East Haddam, Connecticut", prepared by URS Greiner Woodward Clyde, January 2000, map provided by the Town of East Haddam

Untitled Sketch of Pieces Combined as Lot No. 15 on assessor's map No. 17, dated 8/9/45, East Haddam Town Clerk Map No. 320.

U.S. Environmental Protection Agency, CERCLIS Site List sites, 2/1/02.

U.S. Environmental Protection Agency, CERCLIS NFRAP [No Further Action Planned] list, 2/1/02.

U.S. Environmental Protection Agency, Emergency Response Notification System [ERNS] list of spills, 3/3/02.

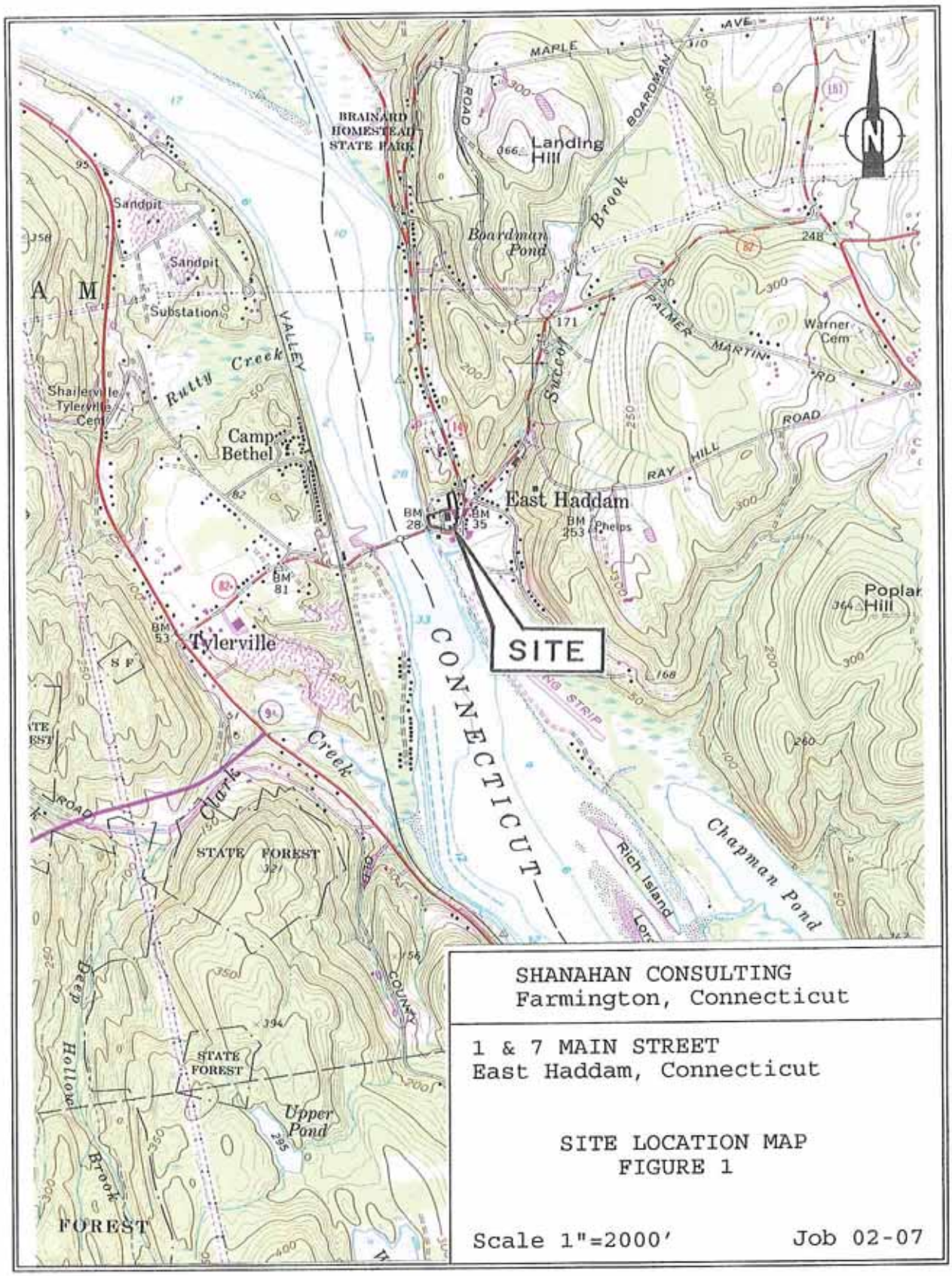
U.S. Environmental Protection Agency, List of RCRA Hazardous Waste Generators, 3/16/02.

U.S. Environmental Protection Agency, List of RCRA Treatment, Storage, and Disposal Facilities (TSDFs), 3/16/02.

U.S. Environmental Protection Agency, National Priority List [NPL], 2/1/02.

U.S. Geological Survey, topographic quadrangle map for the Deep River Quadrangle (1984).

FIGURES

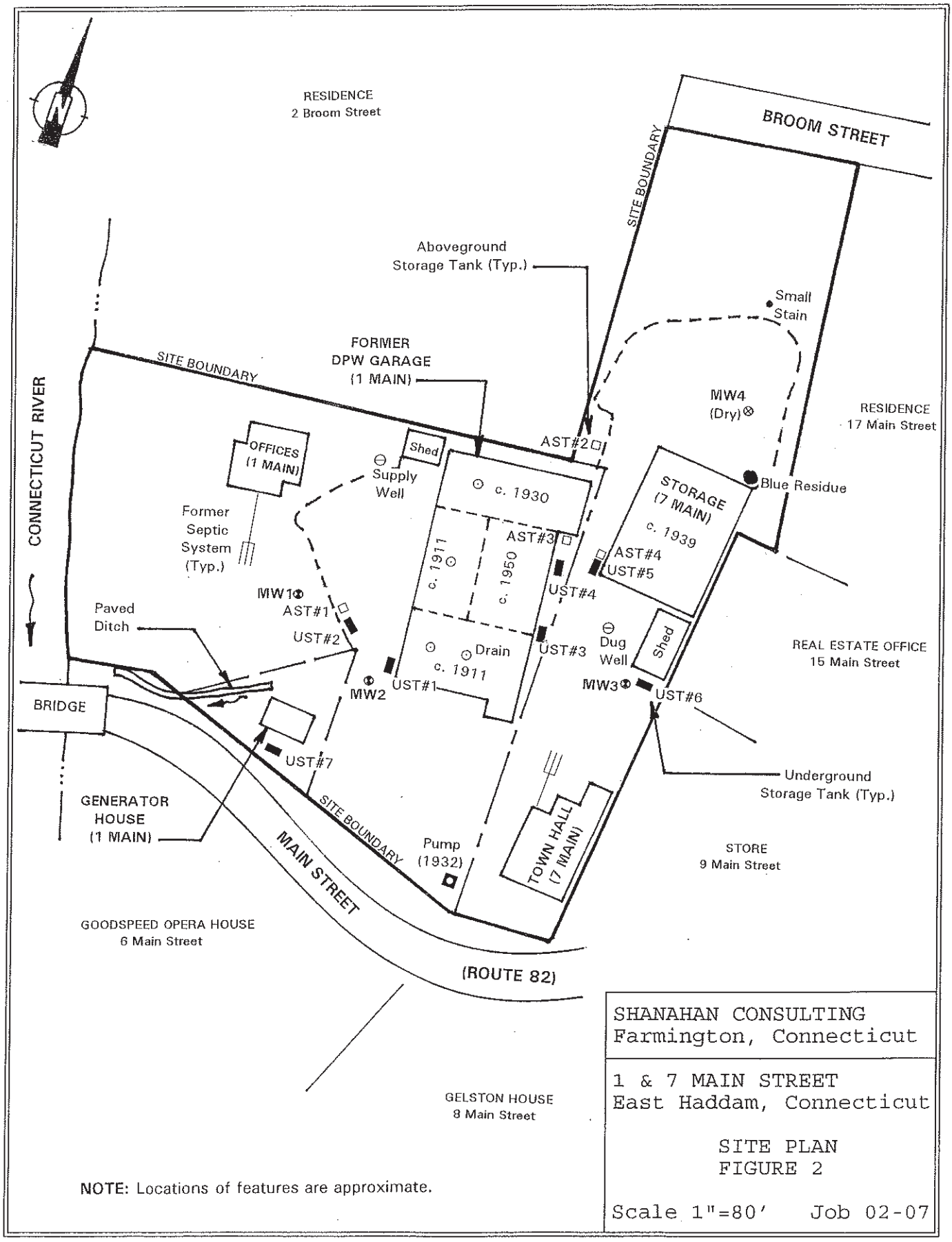


SHANAHAN CONSULTING
Farmington, Connecticut

1 & 7 MAIN STREET
East Haddam, Connecticut

SITE LOCATION MAP
FIGURE 1

Scale 1"=2000' Job 02-07



NOTE: Locations of features are approximate.

SHANAHAN CONSULTING
Farmington, Connecticut

1 & 7 MAIN STREET
East Haddam, Connecticut

SITE PLAN
FIGURE 2

Scale 1"=80' Job 02-07

TABLE

TABLE 1
POTENTIAL OFF-SITE ENVIRONMENTAL CONCERNS
1 & 7 Main Street
East Haddam, Connecticut

Off-Site Property	Approximate Distance From Site	Where Concern Was Reported	Incident(s)
Connecticut River at East Haddam Bridge	Adjacent to west	Spill Reports	8-15-81 report of sewage in river at bridge. Coast Guard found no evidence of sewage. 5-2-95 report of diesel fuel sheen on river. Sheen dissipated. 9-5-95 report of oil slick on river. No sheen observed when inspection performed. 5-4-01 and 5-18-01 reports of sheen on river.
Goodspeed Opera House 6 Main Street	Across Main Street to south	Tank Registration LUST Spill Reports DEP Files	Registered following underground tanks: 3000-gal. heating oil tank (installed in 1963 and removed in 1989 and 2000-gal. heating oil tank (installed in 1989 and in use). 5-19-82 report of discharge of paint wastes into catch basin and river. 8-3-90 report of disposal of lead paint residue to river by contractor. Lead paint residue also in soil around building. DEP issued 1993 Notice of Violation to opera house for the improper disposal of paint wastes to septic systems. 2-2-98 report of leaking underground No. 2 heating oil tank. Tank and 5 cubic yards of contaminated soil removed.
Gelston House 8 Main Street	Across Main Street to south	DEP Files	1989 DEP Consent Order requiring operator of Gelston House to take actions to address failing septic system.
Williams Chevrolet 24 Lumberyard Road	150 feet east/southeast	Tank Registration DEP Files	Registered following underground tanks: 2000-gal. gasoline tank (installed in 1958 and abandoned in 1986), 4000-gal. gasoline tank (installed in 1958 and abandoned in 1986), and 2000-gal. gasoline tank (installed in 1972 and abandoned in 1986). Former occupant was East Haddam Service Garage where floor drainage discharge to Succor Brook was found by DEP inspector in 1969.
Dock Road	200 feet south	Spill Reports	12-27-00 report of spill of 750 gal. of raw sewage. Case open in DEP log book.
Intersection of Creamery Road and Norwich Road	300 feet east	Spill Reports	3-15-99 spill of 11 gal. of transformer oil with 2 ppm PCB content. Spill cleaned by Northeast utilities.
Area of Routes 82 and 149	300 feet east	DEP Map DEP Files	Septic system failures in area. DEP issued 1989 Abatement Order requiring the Town of East Haddam to identify and implement alternative wastewater disposal procedures. Town eventually extended sanitary sewers to the area.

TABLE 1
POTENTIAL OFF-SITE ENVIRONMENTAL CONCERNS
1 & 7 Main Street
East Haddam, Connecticut

Off-Site Property	Approximate Distance From Site	Where Concern Was Reported	Incident(s)
H.R. Engineering Labs, Inc. Norwich Road	1500 feet northeast	DEP Map DEP Files	Manufacture of castings and casting machines since 1950. Septic systems used on property at time of 1969 DEP inspection. Cooling water discharge shown on DEP Map.
Sibley Company Bridge Road Haddam	Across Connecticut River - 1500 feet west of site	TSDF	Hazardous waste disposal to metal hydroxide sludge drying beds and acid disposal pits. Remedial actions performed. Solvent contamination reported on property.

APPENDICES

Appendix A

Well Logs and Chemical Test Data
from Draft Report by Land-Tech Consultants

Soil Sampling Log

DATE STARTED	7/30/00
DATE FINISHED	8/1/00
WEIGHT OF HAMMER	140 Lbs.
HAMMER FALL	30"
GROUND WATER OBSERVATION	
DATE	7/30/00 -
TIME	0 Hours -
DEPTH	32-3" -
SAMPLER Dia (Type/O.D /I.D.)	SS 2" / 1-3/8"
TYPE OF RIG	CME 75 - Truck

Connecticut Test Borings, LLC
P.O. Box 69 - Seymour, CT 06483
GEOTECHNICAL & ENVIRONMENTAL DRILLING
(203) 888-3857 (203) 888-5777
FAX: (203) 888-0655

ESPECIALLY COMPILED FOR
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

SHEET	1 OF 1
PROJECT No.	C00186
LOCATION	7 Main Street E. Haddam, CT
OFFSET	
GROUND ELEVATION	
HOLE No.	MW-1
CASING	HSA 3-1/4"
SAMPLER	FWC 4"
CORE BARREL	

CASING BLOWS	DEPTH	SAMPLE DEPTH (FEET)	SAMP TYPE	BLOWS PER 6 INCHES ON SAMPLER 0-6	6-12	12-18	18-24	DENSITY OR CONSIST MOISTURE	PROFILE CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOILS / REMARKS	SAMPLE NO.	PEN	REC	BORE / WELL (NOT TO SCALE)
									4"	TOPSOIL				
										BR. SILTY SAND & GRAEVL, OCC. COBBLES				
	-5	5'-47'	C					3.0	4'6"					
								3.0		BEDROCK				
								3.0						
								5.0						
								10.0		HOLLOW STEM AUGER REFUSAL AT '4'-6"				
	-10							6.0		DROVE 4" FWC '4'6"-5'				
								8.0		ROLLER BITTED '3-7/8" 5' TO 0				
								4.0						
								4.0						
								5.0						
	-15							4.0						
								5.0						
								6.0						
								4.0						
								5.0						
	-20							8.0						
								7.0						
								5.0						
								5.0						
								6.0						
	-25							4.0						
								6.0						
								9.0						
								6.0						
								8.0						
	-30							8.0						
								9.0						
								8.0						
								9.0						
								6.0						
	-35							7.0						
								6.0						
								8.0		SET 2" PVC WELL PIPE 47' BELOW GRADE				
								6.0						
								4.0		SCREEN -42' TO -28'				
	-40							5.0		RISER -47' TO -42'				
								4.0		RISER -28' TO - 0'				
								3.0		SAND -47' TO -25'				
								3.0		BENT. -25' TO -22'				
								3.0		BACKFILL -22' TO - 1'				
	-45							2.0		SAND MIX - 1' TO - 0				
								3.0						
								4.0	47'					
	-50													

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: S.B.
HELPER: M.J.
SOILS ENGINEER:
DRILLING INSPECTOR:

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

SAMPLE TYPE
C = CORED
W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS SOILS
0 - 4 VERY LOOSE
4 - 10 LOOSE
10-30 MEDIUM
30-50 DENSE
50+ VERY DENSE

COHESIVE SOILS
0 - 2 VERY SOFT
2 - 4 SOFT
4 - 8 MEDIUM
8 15 STIFF
15-30 VERY STIFF
30+ HARD

FILE: C00186

Soil Sampling Log

DATE STARTED	7/28/00
DATE FINISHED	7/28/00
WEIGHT OF HAMMER	140 Lbs.
HAMMER FALL	30"
GROUND WATER OBSERVATION	
DATE	7/28/00 -
TIME	0 Hours -
DEPTH	20'-6" -
SAMPLER Dia. (Type/O.D./I.D.)	SS 2" / 1-3/8"
TYPE OF RIG	CME 75 - Truck

Connecticut Test Borings, LLC
P.O. Box 69 - Seymour, CT 06483
GEOTECHNICAL & ENVIRONMENTAL DRILLING
(203) 888-3857 (203) 888-5777
FAX: (203) 888-0555

ESPECIALLY COMPILED FOR
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

SHEET	1 OF 1
PROJECT No.	C00186
LOCATION	7 Main Street E. Haddam, CT
OFFSET	
GROUND ELEVATION	
HOLE No.	MW-2
CASING	HSA 3-1/4"
SAMPLER	FWC 4"
CORE BARREL	

CASING BLOWS DEPTH	SAMPLE DEPTH (FEET)	SAMP TYPE	BLOWS PER 6 INCHES ON SAMPLER 0-6	6-12	12-18	18-24	DENSITY OR CONSIST MOISTURE	PROFILE CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOILS / REMARKS	SAMPLE NO	PEN	REC	BORE / WELL (NOT TO SCALE)
								2"	ASPHALT				
								6"	F-C GRAVEL				
									BR. VF-F SAND, SOME SILT, TR. F-M GRAVEL				
-5	5'-7'	SS	2	2	1	2	V.LOOSE MOIST			1	24	18	
								8'					
									BEDROCK				
	9'-29'	C					6.0		HOLLOW STEM AUGER REFUSAL AT '9'				
-10							5.0		ROLLER BITTED 3-7/8" 9' TO 29'				
							14.0						
							5.0						
							6.0						
							12.0						
-15							9.0						
							11.0						
							5.0						
							6.0						
							5.0						
-20							7.0						
							6.0						
							10.0						
							8.0						
							5.0						
-25							6.0						
							4.0						
							7.0						
								29'					
-30									BOTTOM OF BORING				
-35									SET 2" PVC WELL PIPE 29' BELOW GRADE				
									SCREEN -29' TO -14'				
-40									RISER -14' TO - 0'				
									SAND -29' TO -13'				
									BENTONITE -13' TO - 8'				
									BACKFILL - 8' TO - 1'				
-45									SAND MIX - 1' TO - 0				
-50													

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: S.B.
HELPER: M.J.
SOILS ENGINEER:
DRILLING INSPECTOR:

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

SAMPLE TYPE
C = CORED
W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS SOILS
0 - 4 VERY LOOSE
4 - 10 LOOSE
10-30 MEDIUM
30-50 DENSE
50+ VERY DENSE

COHESIVE SOILS
0 - 2 VERY SOFT
2 - 4 SOFT
4 - 8 MEDIUM
8 15 STIFF
15-30 VERY STIFF
30+ HARD

FILE: C00186

Soil Sampling Log

DATE STARTED	8/1/00
DATE FINISHED	8/1/00
WEIGHT OF HAMMER	140 Lbs.
HAMMER FALL	30"
GROUND WATER OBSERVATION	
DATE	8/1/00 -
TIME	0 Hours -
DEPTH	8'-0" -
SAMPLER Dia. (Type/O.D./I.D.)	SS 2" / 1-3/8"
TYPE OF RIG	CME 75 - Truck

Connecticut Test Borings, LLC
P.O. Box 69 - Seymour, CT 06483
GEOTECHNICAL & ENVIRONMENTAL DRILLING
(203) 888-3857 (203) 888-5777
FAX: (203) 888-0655

ESPECIALLY COMPILED FOR
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

SHEET	1 OF 1
PROJECT No.	C00186
LOCATION	7 Main Street E. Haddam, CT
OFFSET	
GROUND ELEVATION	
HOLE No	MW-3
CASING	HSA 3-1/4"
SAMPLER	FWC 4"
CORE BARREL	

CASING BLOWS DEPTH	SAMPLE DEPTH (FEET)	SAMP TYPE	BLOWS PER 6 INCHES ON SAMPLER 0-6	6-12	12-18	18-24	DENSITY OR CONSIST MOISTURE	PROFILE CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOILS / REMARKS	SAMPLE NO.	PEN	REC	BORE / WELL (NOT TO SCALE)
								2'	BROWN SILTY SAND & GRAEVL (FILL)				
									TAN VF-F SAND, L. SILT				
-5	5'-7'	SS	4	3	5	5	LOOSE DAMP			1	24	17	
-10	10'-12'	SS	3	6	8	7	MEDIUM WET			2	24	20	
									SAME W/ SOME SILT				
-15													
-20								20'					
									BOTTOM OF BORING				
-25													
-30													
-35													
									SET 2" PVC WELL PIPE 20' BELOW GRADE				
-40									SCREEN -20' TO - 5' RISER - 5' TO - 1' SAND -20' TO - 4' BENTONITE - 4' TO - 3' BACKFILL - 3' TO - 1' SAND MIX - 1' TO - 0				
-45													
-50													

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: S.B.
HELPER: M.J.
SOILS ENGINEER:
DRILLING INSPECTOR:

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

SAMPLE TYPE
C = CORED
W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS SOILS
0 - 4 VERY LOOSE
4 - 10 LOOSE
10-30 MEDIUM
30-50 DENSE
50+ VERY DENSE

COHESIVE SOILS
0 - 2 VERY SOFT
2 - 4 SOFT
4 - 8 MEDIUM
8 15 STIFF
15-30 VERY STIFF
30+ HARD

FILE: C00186

Soil Sampling Log

DATE STARTED	8/1/00
DATE FINISHED	8/1/00
WEIGHT OF HAMMER	140 Lbs.
HAMMER FALL	30"
GROUND WATER OBSERVATION	
DATE	8/1/00 -
TIME	0 Hours -
DEPTH	Dry -
SAMPLER Dia. (Type/O.D./I.D.)	SS 2" / 1-3/8"
TYPE OF RIG	CME 75 - Truck

Connecticut Test Borings, LLC
P.O. Box 69 - Seymour, CT 06483
GEOTECHNICAL & ENVIRONMENTAL DRILLING
(203) 888-3857 (203) 888-5777
FAX: (203) 888-0655

ESPECIALLY COMPILED FOR
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

SHEET	1 OF 1
PROJECT No.	C00186
LOCATION	7 Main Street E. Haddam, CT
OFFSET	
GROUND ELEVATION	
HOLE No	MW-4
CASING	HSA 3-1/4"
SAMPLER	FWC 4"
CORE BARREL	

CASING BLOWS	DEPTH	SAMPLE DEPTH (FEET)	SAMP TYPE	BLOWS PER 6 INCHES ON SAMPLER 0-6	6-12	12-18	18-24	DENSITY OR CONSIST MOISTURE	PROFILE CHANGE DEPTH ELEV	FIELD IDENTIFICATION OF SOILS / REMARKS	SAMPLE NO.	PEN	REC	BORE / WELL (NOT TO SCALE)
									2'	BR. SILTY SAND, L. F-C GRAVEL (FILL)				
										TAN VF-F SAND, TR. SILT				
	-5	5'-7'	SS	4	6	5	8	MEDIUM DRY			1	24	16	
									8'6"					
										BR. VF-F SAND, SOME SILT, L. F-C GRAVEL				
	-10	10'-12'	SS	12	50/5			V.DENSE MOIST	10'3"	(TILL)	2	11	10	
										PROBABLE BEDROCK				
									10'5"					
										REFUSAL				
	-15													
	-20													
	-25													
	-30													
	-35													
	-40													
	-45													
	-50													

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: S.B.
HELPER: M.J.
SOILS ENGINEER:
DRILLING INSPECTOR:

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

SAMPLE TYPE
C = CORED
W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS SOILS
0 - 4 VERY LOOSE
4 - 10 LOOSE
10-30 MEDIUM
30-50 DENSE
50+ VERY DENSE

COHESIVE SOILS
0 - 2 VERY SOFT
2 - 4 SOFT
4 - 8 MEDIUM
8 15 STIFF
15-30 VERY STIFF
30+ HARD

FILE: C00186

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client: Land-Tech Consultants

Address: 205 Playhouse Corner
Southbury, CT 06488

Attn: M. Bartos

Project Number: E00199-04

Site: 7 MAIN ST.

Laboratory Job Number: L0006658

Invoice Number: 40172

Date Received: 10-AUG-00

Date Reported: 23-AUG-00

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0006658-01	MW-1	E. HADDAM, CT
L0006658-02	MW-2	E. HADDAM, CT
L0006658-03	MW-3	E. HADDAM, CT
L0006658-04	TRIP BLANK	ALPHA

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: James R. Roth

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0006658-01
MW-1
Sample Matrix: WATER

Date Collected: 09-AUG-2000
Date Received : 10-AUG-2000
Date Reported : 23-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Hydrocarbons, Total(IR)	1.8	mg/l	0.95	4	418.1	22-Aug	23-Aug	TH
Total Metals				1	3015			
Arsenic, Total	0.016	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Barium, Total	0.18	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Chromium, Total	0.20	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Lead, Total	ND	mg/l	0.05	1	6010B	17-Aug	19-Aug	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	15-Aug	16-Aug	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Silver, Total	ND	mg/l	0.010	1	6010B	17-Aug	19-Aug	RW
Volatile Organics by GC/MS 8260				1	8260B		18-Aug	AM
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	2.0	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	25.					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	5.5	ug/l	1.5					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-01
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		18-Aug	AM
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
Methyl tert butyl ether	ND	ug/l	10.					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.					
1,2,3-Trichloropropane	ND	ug/l	10.					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	10.					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	10.					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	10.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Ethyl methacrylate	ND	ug/l	10.					
Acrolein	ND	ug/l	25.					
Acrylonitrile	ND	ug/l	10.					
Bromochloromethane	ND	ug/l	5.0					
Tetrahydrofuran	ND	ug/l	20.					
2,2-Dichloropropane	ND	ug/l	5.0					
1,2-Dibromoethane	ND	ug/l	5.0					
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	ND	ug/l	5.0					
sec-Butylbenzene	ND	ug/l	5.0					
tert-Butylbenzene	ND	ug/l	5.0					
o-Chlorotoluene	ND	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	ND	ug/l	5.0					
p-Isopropyltoluene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
n-Propylbenzene	ND	ug/l	5.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-01
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		18-Aug	AM
Ethyl ether	ND	ug/l	25.					
Surrogate Recovery								
1,2-Dichloroethane-d4	113.	%						
Toluene-d8	96.0	%						
4-Bromofluorobenzene	98.0	%						
Dibromofluoromethane	111.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0006658-02
MW-2
Sample Matrix: WATER

Date Collected: 09-AUG-2000
Date Received : 10-AUG-2000
Date Reported : 23-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Hydrocarbons, Total(IR)	1.4	mg/l	0.95	4	418.1	22-Aug	23-Aug	TH
Total Metals				1	3015			
Arsenic, Total	0.047	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Barium, Total	0.38	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Chromium, Total	0.25	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Lead, Total	0.57	mg/l	0.05	1	6010B	17-Aug	19-Aug	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	15-Aug	16-Aug	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Silver, Total	ND	mg/l	0.010	1	6010B	17-Aug	19-Aug	RW
Volatile Organics by GC/MS 8260				1	8260B		19-Aug	AM
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	1.9	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	25.					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.5					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-02
MW-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		19-Aug	AM
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
Methyl tert butyl ether	ND	ug/l	10.					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.					
1,2,3-Trichloropropane	ND	ug/l	10.					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	10.					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	10.					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	10.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Ethyl methacrylate	ND	ug/l	10.					
Acrolein	ND	ug/l	25.					
Acrylonitrile	ND	ug/l	10.					
Bromochloromethane	ND	ug/l	5.0					
Tetrahydrofuran	ND	ug/l	20.					
2,2-Dichloropropane	ND	ug/l	5.0					
1,2-Dibromoethane	ND	ug/l	5.0					
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	ND	ug/l	5.0					
sec-Butylbenzene	ND	ug/l	5.0					
tert-Butylbenzene	ND	ug/l	5.0					
o-Chlorotoluene	ND	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	ND	ug/l	5.0					
p-Isopropyltoluene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
n-Propylbenzene	ND	ug/l	5.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-02
MW-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		19-Aug	AM
Ethyl ether	ND	ug/l	25.					
Surrogate Recovery								
1,2-Dichloroethane-d4	114.	%						
Toluene-d8	94.0	%						
4-Bromofluorobenzene	99.0	%						
Dibromofluoromethane	113.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0006658-03
MW-3
Sample Matrix: WATER

Date Collected: 09-AUG-2000
Date Received : 10-AUG-2000
Date Reported : 23-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Hydrocarbons, Total(IR)	ND	mg/l	0.95	4	418.1	22-Aug	23-Aug	TH
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Barium, Total	0.03	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Lead, Total	ND	mg/l	0.05	1	6010B	17-Aug	19-Aug	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	15-Aug	16-Aug	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Silver, Total	ND	mg/l	0.010	1	6010B	17-Aug	19-Aug	RW
Volatile Organics by GC/MS 8260				1	8260B		19-Aug	AM
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	25.					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.5					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-03
MW-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		19-Aug	AM
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
Methyl tert butyl ether	ND	ug/l	10.					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.					
1,2,3-Trichloropropane	ND	ug/l	10.					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	10.					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	10.					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	10.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Ethyl methacrylate	ND	ug/l	10.					
Acrolein	ND	ug/l	25.					
Acrylonitrile	ND	ug/l	10.					
Bromochloromethane	ND	ug/l	5.0					
Tetrahydrofuran	ND	ug/l	20.					
2,2-Dichloropropane	ND	ug/l	5.0					
1,2-Dibromoethane	ND	ug/l	5.0					
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	ND	ug/l	5.0					
sec-Butylbenzene	ND	ug/l	5.0					
tert-Butylbenzene	ND	ug/l	5.0					
o-Chlorotoluene	ND	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	ND	ug/l	5.0					
p-Isopropyltoluene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
n-Propylbenzene	ND	ug/l	5.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-03
MW-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		19-Aug	AM
Ethyl ether	ND	ug/l	25.					
Surrogate Recovery								
1,2-Dichloroethane-d4	109.	%						
Toluene-d8	107.	%						
4-Bromofluorobenzene	97.0	%						
Dibromofluoromethane	110.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0006658-04
TRIP BLANK
Sample Matrix: WATER

Date Collected: 24-JUL-2000
Date Received : 10-AUG-2000
Date Reported : 23-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260				1	8260B		19-Aug	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	25.					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.5					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
Methyl tert butyl ether	ND	ug/l	10.					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-04
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		19-Aug	BT
1,2,3-Trichloropropane	ND	ug/l	10.					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	10.					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	10.					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	10.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Ethyl methacrylate	ND	ug/l	10.					
Acrolein	ND	ug/l	25.					
Acrylonitrile	ND	ug/l	10.					
Bromochloromethane	ND	ug/l	5.0					
Tetrahydrofuran	ND	ug/l	20.					
2,2-Dichloropropane	ND	ug/l	5.0					
1,2-Dibromoethane	ND	ug/l	5.0					
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	ND	ug/l	5.0					
sec-Butylbenzene	ND	ug/l	5.0					
tert-Butylbenzene	ND	ug/l	5.0					
o-Chlorotoluene	ND	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	ND	ug/l	5.0					
p-Isopropyltoluene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
n-Propylbenzene	ND	ug/l	5.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					
Ethyl ether	ND	ug/l	25.					
Surrogate Recovery								
1,2-Dichloroethane-d4	121.	%						
Toluene-d8	96.0	%						
4-Bromofluorobenzene	101.	%						
Dibromofluoromethane	108.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA Analytical Laboratories, Inc.

Eight Walkup Drive Westborough, MA 01581
PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

CHAIN OF CUSTODY

№ 2204 Sheet 1 of 1

ALPHA Job #: 0006658

Date Rec'd in Lab: 8/10

Date Due: 8/24

Client Name: TOWN OF EAST HADDAM
Client Address: 7 MAIN ST.
EAST HADDAM, CT 06423
Phone #: FAX #:

Project Name: 7 MAIN
Project Location: E. HADDAM
Project #: E00199-04
Project Manager: M. BARTOS

Report To: M. BARTOS
Bill To: JAMES VENTRES
TOWN OF E. HADDAM
PO#:

☑ Standard TAT
☐ RUSH TAT____ (# DAYS)
☐ FAX Results
☐ State Forms
☐ Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)

CONTACT: M. BARTOS
LAND-TECH CONSULTANTS, INC.
205 PLAYHOUSE CORNER
SOUTHBURY CT 06488
203.264.8300

ANALYSIS REQUEST

ALPHA Lab #	Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	8260	TPH-1R	RCRA-8 (Total)							
6658.1	MW-1	GW	8/9/00		MJB	N	X	X	X							
2	MW-2	GW	↓		↓	N	X	X	X							
3	MW-3	GW	↓		↓	N	X	X	X							
4	TRIP BLANK		7/29/00	1415			X									
# of Containers:							7	6	3							
Container Type:							V	A	P							
Preservative: *							B	B	C							

	Date	Time
Transfers Accepted By:	8/10	10:30
	8/10/00	4:00
	8/10/00	1845
Transfers Relinquished By:		

All samples submitted are subject to Alpha's standard Terms and Conditions.

* See Reverse side for Matrix, Container, and Preservative Codes.

Form No.: 01-01

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040-0418
Tel. (860) 645-1102 Fax (860) 645-0823

RECEIVED
NOV 22 2000
LAND-TECH CONSULTANTS INC.

November 21, 2000

Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury CT 06488

Attention: Mr. Michael Bartos, Jr.

Sample ID#: AD00753-56

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

This report, starting with the cover sheet ending with the chain of custody, consists of 9 pages.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
NY Lab Registration #11301
RI Lab Registration #63
NH Lab Registration #213693-A,B
ME Lab Registration #CT-007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 21, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		11/15/00	0:00
Location Code:	LANDTECH	Received by:	SW	11/16/00	17:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN MW-1 Phoenix I.D. AD00753

Parameter	Result	RL	Units	Date	Time	by	Reference
Pesticide Extraction	Completed			11/16/00	20:58	PL	SW846-3510
Pesticide							
4,4' -DDD	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4' -DDE	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4' -DDT	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
a-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Aldrin	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
b-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Chlordane	ND	0.3	ug/L	11/20/00	9:42	KCA	608/8081
d-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Dieldrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan I	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan II	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan Sulfate	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin Aldehyde	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
g-BHC (Lindane)	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor epoxide	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Methoxychlor	ND	0.2	ug/L	11/20/00	9:42	KCA	608/8081
Toxaphene	ND	1.0	ug/L	11/20/00	9:42	KCA	608/8081

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
November 21, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 21, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		11/15/00	0:00
Location Code:	LANDTECH	Received by:	SW	11/16/00	17:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN MW-2 Phoenix I.D. AD00754

Parameter	Result	RL	Units	Date	Time	by	Reference
Pesticide Extraction	Completed			11/16/00	20:58	PL	SW846-3510
Pesticide							
4,4' -DDD	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4' -DDE	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4' -DDT	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
a-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Aldrin	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
b-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Chlordane	ND	0.3	ug/L	11/20/00	9:42	KCA	608/8081
d-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Dieldrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan I	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan II	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan Sulfate	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin Aldehyde	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
g-BHC (Lindane)	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor epoxide	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Methoxychlor	ND	0.2	ug/L	11/20/00	9:42	KCA	608/8081
Toxaphene	ND	1.0	ug/L	11/20/00	9:42	KCA	608/8081

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
November 21, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 21, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		11/15/00	0:00
Location Code:	LANDTECH	Received by:	SW	11/16/00	17:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN MW-3 Phoenix I.D. AD00755

Parameter	Result	RL	Units	Date	Time	by	Reference
Pesticide Extraction	Completed			11/16/00	20:58	PL	SW846-3510
Pesticide							
4,4' -DDD	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4' -DDE	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4' -DDT	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
a-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Aldrin	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
b-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Chlordane	ND	0.3	ug/L	11/20/00	9:42	KCA	608/8081
d-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Dieldrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan I	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan II	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan Sulfate	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin Aldehyde	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
g-BHC (Lindane)	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor epoxide	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Methoxychlor	ND	0.2	ug/L	11/20/00	9:42	KCA	608/8081
Toxaphene	ND	1.0	ug/L	11/20/00	9:42	KCA	608/8081

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
November 21, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

QC Report

AD00756 November 21, 2000

Sample ID AD00756

Analysis: **Pesticides (GC) Analysis QC** *AD00756*

Analyte	Method Blank (ppb)	Matrix Spike (% Rec)	Matrix Spike Dup. (% Rec.)	RPD
-				
g-BHC	ND	73%	82%	12%
Heptachlor	ND	70%	81%	15%
Aldrin	ND	69%	81%	16%
Dieldrin	ND	80%	90%	12%
Endrin	ND	92%	99%	7%
4,4'-DDT	ND	94%	94%	11%

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller
Laboratory Director

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823
Client Services (860) 645-8726

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: TOWN OF EAST HADDAM
Address: 7 MAIN ST.
E. HADDAM CT 06423

Project: 7 MAIN
Report To: M. BARTOS - LAND TECH
Invoice To: J. VENTRES - E. HADDAM

Project P.O.: _____
Phone #: (203) 364 8300
Fax #: (203) 267 2295

| Client Sample – Information – Identification | | | | | Analysis Requested | | | | |

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client: Land-Tech Consultants

Address: 205 Playhouse Corner
Southbury, CT 06488

Attn: M. Bartos

Project Number: E00199-04

Site: 7 MAIN ST.

Laboratory Job Number: L0006331

Invoice Number: 39781

Date Received: 02-AUG-00

Date Reported: 15-AUG-00

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0006331-01	MW-2-6	E. HADDAM, CT
L0006331-02	MW-3-6	E. HADDAM, CT

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by:

Scott McLean - Laboratory Director

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0006331-01
MW-2-6
Sample Matrix: SOIL

Date Collected: 28-JUL-2000
Date Received : 02-AUG-2000
Date Reported : 15-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	81.	%	0.10	30	2540G		05-Aug	LC
Hydrocarbons, Total(IR)	200	mg/kg	49.	4	418.1	14-Aug	14-Aug	TH
Total Metals				1	3051			
Arsenic, Total	3.5	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
Barium, Total	28.	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
Cadmium, Total	ND	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
Chromium, Total	18.	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
Lead, Total	31.	mg/kg	2.4	1	6010B	11-Aug	13-Aug	MG
Mercury, Total	ND	mg/kg	0.31	1	7471A	11-Aug	12-Aug	DM
Selenium, Total	ND	mg/kg	0.98	1	6010B	11-Aug	13-Aug	MG
Silver, Total	ND	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
TCLP Metals								
TCLP Extraction				1	1311	10-Aug		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	11-Aug	14-Aug	MM
Barium, TCLP	ND	mg/l	0.50	1	6010B	11-Aug	14-Aug	MM
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	11-Aug	14-Aug	MM
Chromium, TCLP	ND	mg/l	0.20	1	6010B	11-Aug	14-Aug	MM
Lead, TCLP	ND	mg/l	0.50	1	6010B	11-Aug	14-Aug	MM
Mercury, TCLP	ND	mg/l	0.005	1	7470A	13-Aug	14-Aug	DM
Selenium, TCLP	ND	mg/l	1.0	1	6010B	11-Aug	14-Aug	MM
Silver, TCLP	ND	mg/l	0.10	1	6010B	11-Aug	14-Aug	MM
Volatile Organics by GC/MS 8260				1	8260B		09-Aug	MD
Methylene chloride	ND	ug/kg	31.					
1,1-Dichloroethane	ND	ug/kg	9.2					
Chloroform	ND	ug/kg	9.2					
Carbon tetrachloride	ND	ug/kg	6.2					
1,2-Dichloropropane	ND	ug/kg	22.					
Dibromochloromethane	ND	ug/kg	6.2					
1,1,2-Trichloroethane	ND	ug/kg	9.2					
Tetrachloroethene	ND	ug/kg	6.2					
Chlorobenzene	ND	ug/kg	22.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0006331-02
MW-3-6
Sample Matrix: SOIL

Date Collected: 01-AUG-2000
Date Received : 02-AUG-2000
Date Reported : 15-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	85.	%	0.10	30	2540G		14-Aug	EO
Hydrocarbons, Total(IR)	54.	mg/kg	47.	4	418.1	14-Aug	14-Aug	TH
Total Metals				1	3051			
Arsenic, Total	5.6	mg/kg	0.47	1	6010B	11-Aug	13-Aug	MG
Barium, Total	33.	mg/kg	0.47	1	6010B	11-Aug	13-Aug	MG
Cadmium, Total	ND	mg/kg	0.47	1	6010B	11-Aug	13-Aug	MG
Chromium, Total	28.	mg/kg	0.47	1	6010B	11-Aug	13-Aug	MG
Lead, Total	8.5	mg/kg	2.3	1	6010B	11-Aug	13-Aug	MG
Mercury, Total	ND	mg/kg	0.29	1	7471A	11-Aug	12-Aug	DM
Selenium, Total	ND	mg/kg	0.94	1	6010B	11-Aug	13-Aug	MG
Silver, Total	ND	mg/kg	0.47	1	6010B	11-Aug	13-Aug	MG
TCLP Metals								
TCLP Extraction				1	1311	10-Aug		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	11-Aug	14-Aug	MM
Barium, TCLP	ND	mg/l	0.50	1	6010B	11-Aug	14-Aug	MM
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	11-Aug	14-Aug	MM
Chromium, TCLP	ND	mg/l	0.20	1	6010B	11-Aug	14-Aug	MM
Lead, TCLP	ND	mg/l	0.50	1	6010B	11-Aug	14-Aug	MM
Mercury, TCLP	ND	mg/l	0.005	1	7470A	13-Aug	14-Aug	DM
Selenium, TCLP	ND	mg/l	1.0	1	6010B	11-Aug	14-Aug	MM
Silver, TCLP	ND	mg/l	0.10	1	6010B	11-Aug	14-Aug	MM
Volatile Organics by GC/MS 8260				1	8260B		13-Aug	BT
Methylene chloride	ND	ug/kg	31.					
1,1-Dichloroethane	ND	ug/kg	9.2					
Chloroform	ND	ug/kg	9.2					
Carbon tetrachloride	ND	ug/kg	6.1					
1,2-Dichloropropane	ND	ug/kg	21.					
Dibromochloromethane	ND	ug/kg	6.1					
1,1,2-Trichloroethane	ND	ug/kg	9.2					
Tetrachloroethene	ND	ug/kg	6.1					
Chlorobenzene	ND	ug/kg	21.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006331-02
MW-3-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		13-Aug	BT
Trichlorofluoromethane	ND	ug/kg	31.					
1,2-Dichloroethane	ND	ug/kg	6.1					
1,1,1-Trichloroethane	ND	ug/kg	6.1					
Bromodichloromethane	ND	ug/kg	6.1					
trans-1,3-Dichloropropene	ND	ug/kg	6.1					
cis-1,3-Dichloropropene	ND	ug/kg	6.1					
1,1-Dichloropropene	ND	ug/kg	150					
Bromoform	ND	ug/kg	6.1					
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1					
Benzene	ND	ug/kg	6.1					
Toluene	ND	ug/kg	9.2					
Ethylbenzene	ND	ug/kg	6.1					
Chloromethane	ND	ug/kg	61.					
Bromomethane	ND	ug/kg	12.					
Vinyl chloride	ND	ug/kg	12.					
Chloroethane	ND	ug/kg	12.					
1,1-Dichloroethene	ND	ug/kg	9.2					
trans-1,2-Dichloroethene	ND	ug/kg	9.2					
Trichloroethene	ND	ug/kg	6.1					
1,2-Dichlorobenzene	ND	ug/kg	31.					
1,3-Dichlorobenzene	ND	ug/kg	31.					
1,4-Dichlorobenzene	ND	ug/kg	31.					
Methyl tert butyl ether	ND	ug/kg	61.					
p/m-Xylene	ND	ug/kg	6.1					
o-Xylene	ND	ug/kg	6.1					
cis-1,2-Dichloroethene	ND	ug/kg	6.1					
Dibromomethane	ND	ug/kg	61.					
1,4-Dichlorobutane	ND	ug/kg	61.					
Iodomethane	ND	ug/kg	61.					
1,2,3-Trichloropropane	ND	ug/kg	61.					
Styrene	ND	ug/kg	6.1					
Dichlorodifluoromethane	ND	ug/kg	61.					
Acetone	ND	ug/kg	61.					
Carbon disulfide	ND	ug/kg	61.					
2-Butanone	ND	ug/kg	61.					
Vinyl acetate	ND	ug/kg	61.					
4-Methyl-2-pentanone	ND	ug/kg	61.					
2-Hexanone	ND	ug/kg	61.					
Ethyl methacrylate	ND	ug/kg	61.					
Acrolein	ND	ug/kg	150					
Acrylonitrile	ND	ug/kg	61.					
Bromochloromethane	ND	ug/kg	31.					
Tetrahydrofuran	ND	ug/kg	120					
2,2-Dichloropropane	ND	ug/kg	31.					
1,2-Dibromoethane	ND	ug/kg	31.					
1,3-Dichloropropane	ND	ug/kg	31.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	31.					
Bromobenzene	ND	ug/kg	31.					
n-Butylbenzene	ND	ug/kg	31.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006331-02
MW-3-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		13-Aug	BT
sec-Butylbenzene	ND	ug/kg	31.					
tert-Butylbenzene	ND	ug/kg	31.					
o-Chlorotoluene	ND	ug/kg	31.					
p-Chlorotoluene	ND	ug/kg	31.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	31.					
Hexachlorobutadiene	ND	ug/kg	31.					
Isopropylbenzene	ND	ug/kg	31.					
p-Isopropyltoluene	ND	ug/kg	31.					
Naphthalene	ND	ug/kg	31.					
n-Propylbenzene	ND	ug/kg	31.					
1,2,3-Trichlorobenzene	ND	ug/kg	31.					
1,2,4-Trichlorobenzene	ND	ug/kg	31.					
1,3,5-Trimethylbenzene	ND	ug/kg	31.					
1,2,4-Trimethylbenzene	ND	ug/kg	31.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	31.					
Ethyl ether	ND	ug/kg	150					
Surrogate Recovery								
1,2-Dichloroethane-d4	94.0	%						
Toluene-d8	97.0	%						
4-Bromofluorobenzene	103.	%						
Dibromofluoromethane	86.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA Analytical Laboratories, Inc.

Eight Walkup Drive Westborough, MA 01581

PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

CHAIN OF CUSTODY

№ 2203

Sheet 1 of 1

ALPHA Job #: 006331

Date Rec'd in Lab: 8/2

Date Due: 8/16

Client Name: TOWN OF EAST HADDAM

Client Address: 7 MAIN ST. E. HADDAM CT 06423

Phone #: FAX #:

Project Name: 7 MAIN

Project Location: E. HADDAM

Project #: E00199-04

Project Manager: M. BARTOS

Report To: M. BARTOS (SEE COMMENTS)

Bill To: JAMES VENTRES TOWN OF E. HADDAM

PO#:

☒ Standard TAT

☐ RUSH TAT_____ (# DAYS)

☐ FAX Results

☐ State Forms

☐ Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)

CONTACT: M. BARTOS
LAND-TECH CONSULTANTS, INC.
205 PLATHOUSE CORNER
SOUTHBURY, CT 06488
PH: 203-264-8300

ANALYSIS REQUEST

ALPHA Lab #	Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	8260	TPH-IR	RCRA-8 + TCLP							
6331.1	MW-2-6	W	7/28/00		MJB		X	X	X							
2	MW-3-6	S	8/1/00		MJB		X	X	X							
# of Containers:							2	2	2							
Container Type:							G	A	A							
Preservative: *							A	A	A							

Transfers Accepted By:	Date	Time
	8/2	1:00
	8/4/00	2:30
	8/4/00	17:15

Transfers Relinquished By:

All samples submitted are subject to Alpha's standard Terms and Conditions.

* See Reverse side for Matrix, Container, and Preservative Codes.

Form No.: 01-01

Appendix B

Sanitary Sewer Connection Records

June 14, 1971 PAGE 1 #1468-S

APPLICATION FOR PERMIT FOR CONSTRUCTION ALTERATION OR REPAIR OF A PRIVATE SEWERAGE DISPOSAL SYSTEM

FEE $5.00

VYNALEK BROS. INC.	358680	STATE OF CONN.	STATE HIWAY GARAGE BY BRIDGE
CONTRACTOR	LICENSE NO.	OWNER	WORK LOCATION

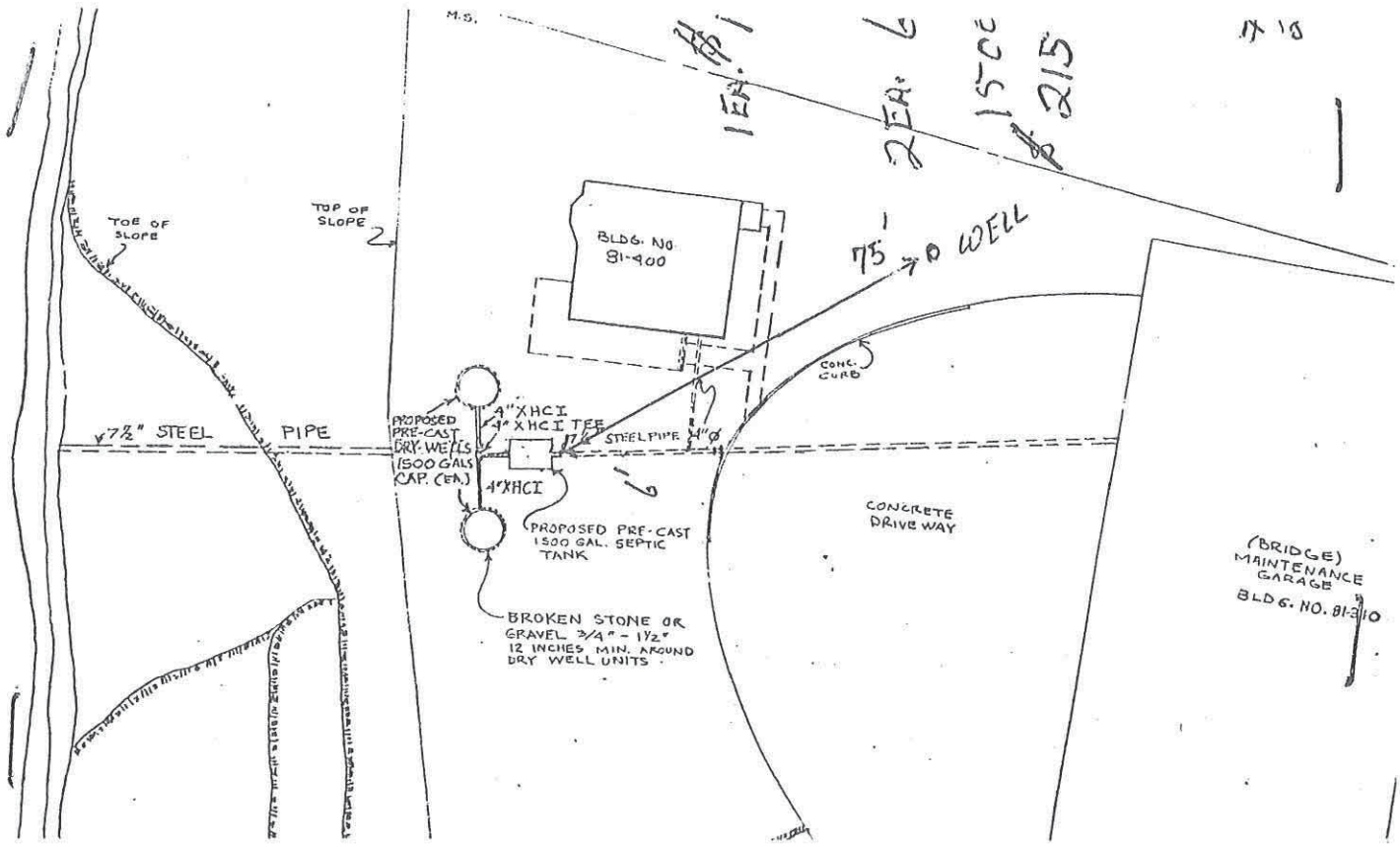
Main St

SKETCH OF SITE

SHOWING:

1. Boundaries within 200'
2. Well locations with 200'
3. Building to be served
4. Location of existing sewer, if any
5. Location of deep test hole/holes and percolation test hole/holes

Completed



PERMIT FOR CONSTRUCTION OF ALTERATION OR REPAIR
PRIVATE SEWERAGE DISPOSAL SYSTEM

INSPECTION #1

SANITARIANS REPORT ON TEST HOLES.

No Inspection

DESCRIPTION OF WORK TO BE DONE INCLUDING DETAILED PLAN
(Location may be added to sketch on page 1)

INSTALL 1500 GAL. TANK
" 2 6X8 DRYWELL

INSPECTION #2

ALL EXCAVATIONS OPEN

No Inspection

INSPECTION #3

WORK COMPLETE EXCEPT FOR BACKFILL

Dry wells To Close Together
This Job was Controled
By State Highway Engineers
With No Cooperation With Town Officials

APPROVED mlodun
~~DISAPPROVED~~

DATE 8/3/71

1. Building Inspector's Copy

17/15

EAST HADDAM WATER POLLUTION CONTROL AUTHORITY
TOWN OF EAST HADDAM

(860) 873-5031
HOURS: Mon., Wed.,& Thurs 9AM-4PM / Tues. 9AM-7PM / FRI. 9AM-12 NOON

June 21, 1999

Town Department of Public Works/Mark Kiefer
PO Box K
East Haddam, CT 06423

RE: Sewer Hook-up - 7 Main St

Dear Mr. Kiefer - (Jim told me to - reminder note);

The East Haddam Water Pollution Control Authority (WPCA) gave official notice to hook-up to the collection system and the grinder pump in December of 1997. One year and six months have expired since the original notice. Your property is one of twenty that have not connected as of June 10, 1999. In a February letter, you were given until April 1, 1999 to complete the required hook ups. After April 1, 1999, any additional cost incurred due to construction deficiencies was to be at the expense of the property owner(s). The reason that you have been asked to connect is that there is a potential of deficiencies in the installation of the grinder pump system. At this time, the WPCA has the authority and ability to cover the cost of correcting deficiencies by using the funds from retainage held from LaRosa Construction Company. Most of these deficiencies that have been discovered so far are faulty electrical connections costing between $150 and $600 to repair. These deficiencies can only be discovered when the septic system is connected to the grinder pump and tested. ***The WPCA expects to release the retained funds at its meeting on July 7, 1999. Once it does so, it will lose its ability to pay for deficiencies in the grinder pump system.***

For those residents that do not hookup, please be advised that although you eventually will be ordered by the DEP and the WPCA to hook up to the sewer system, the WPCA will be removing the grinder pump mechanism. We have been notified by the grinder pump manufacturer that dormant units stored underground can be adversely effected. ***The WPCA will return these grinder pump mechanisms once you are ordered to hook up but at a charge equal to the removal and installation cost. The WPCA feels that it is unfair to disperse the additional cost to the entire district for those few who refuse to hook up.***

We realize that some of the residences have contacted contractors to complete the hook ups. The WPCA would like to close out this construction contract without additional cost being left to the you, the property owner. Please contact James Ventres at the Land Use Office (873-5031) this week to update the commission on your progress and to discuss your intentions.

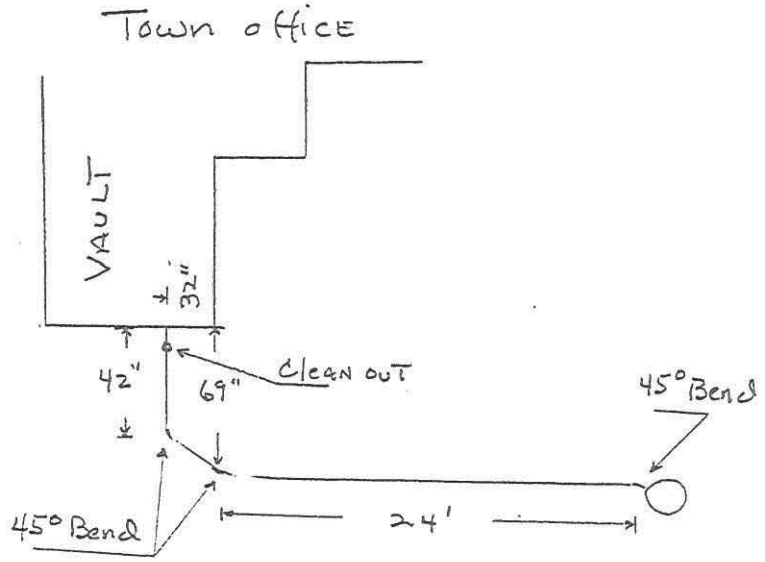
Sincerely,

Norman Gobelle/ck

Norman Gobelle - Chairman - E.H. Water Pollution Control Authority

u/z/wpca/hookup2

7 Main St.



PERMIT NO. 1130 - 0299
LICENSE NO. 000813

APPLICATION FOR PLUMBING PERMIT

(Application must be typed or printed)

TOWN OF EAST HADDAM
CONNECTICUT

LOCATION OF JOB (NO. & STREET) 1 Main St.		MAP 17	LOT 14
OWNER Town of East Haddam	ADDRESS (NO. STREET, TOWN, STATE, ZIP) 7 main st		PHONE 873-5020
PLUMBING CONTRACTOR	ADDRESS (NO. STREET, TOWN, STATE, ZIP)		PHONE

REMARKS: Tie into Sewer system

APPLICANT: Peter R. Linko

ADDRESS (NO. STREET) - MUST BE COMPLETED: 16 Daniels rd.

TOWN, STATE, ZIP: East Haddam CT. 06423

Fee: to $999.00 - $10.00

$5.00 for each additional $1,000.00 or part

APPLIANCES

	NO	MFR
DISH WASHER		
GARBAGE DISPOSAL		
CLOTHES WASHER		

TYPE OF WORK BEING DONE

☐ ORIG CONSTRUCTION ☐ REPAIR
☐ ALTERATION ☐ DEMOLITION
☐ ADDITION

CLASSIFICATION

USE GROUP
CONSTRUCTION TYPE
SPECIFIC USE

	COST	FEE
ESTIMATED		
ACTUAL	Waived	
DIFFERENCE		
ADDITIONAL		

All Permits Must Be Posted And Visible From The Street

WATER SUPPLY

LICENSE #
PUMP CONTRACTOR STREET TOWN STATE
☐ WELL ☐ SPRING ☐ PUBLIC ☐ ASSOCIATION IF WELL, TYPE DEPTH STATIC LEVEL
GAL PER MIN AT FT GAL PER MIN AT FT GAL PER MIN AT FT
PUMP MANUFACTURER MODEL H P GPM DEPTH SET
ELECTRICAL WORK DONE BY TOWN STATE

	WATER HEATER	WATER TANK
TYPE		
MAKE		
MODEL		
CAPACITY	gal	gal
TEST PRESSURE	psi	psi
WORKING PRESSURE	psi	psi
TEMP RELIEF		
PRESSURE RELIEF	psi	psi

PIPE

	SIZE	TYPE	INSPECTED
BUILD DRAIN			
SOIL			
MAIN VENT			
WASTE			
OTHER VENT			
COLD SUPPLY			
HOT SUPPLY			

FIXTURES

	NO	STYLE
BATHTUB		
SHOWER		
TOILET		
SINK		
LAVATORY		
WASH TUB		
URINAL		
BIDDET		

All work covered by this application has been authorized by the owner or agent of this property and will be done according to state regulations. This permit shall lapse if work does not commence within 6 months

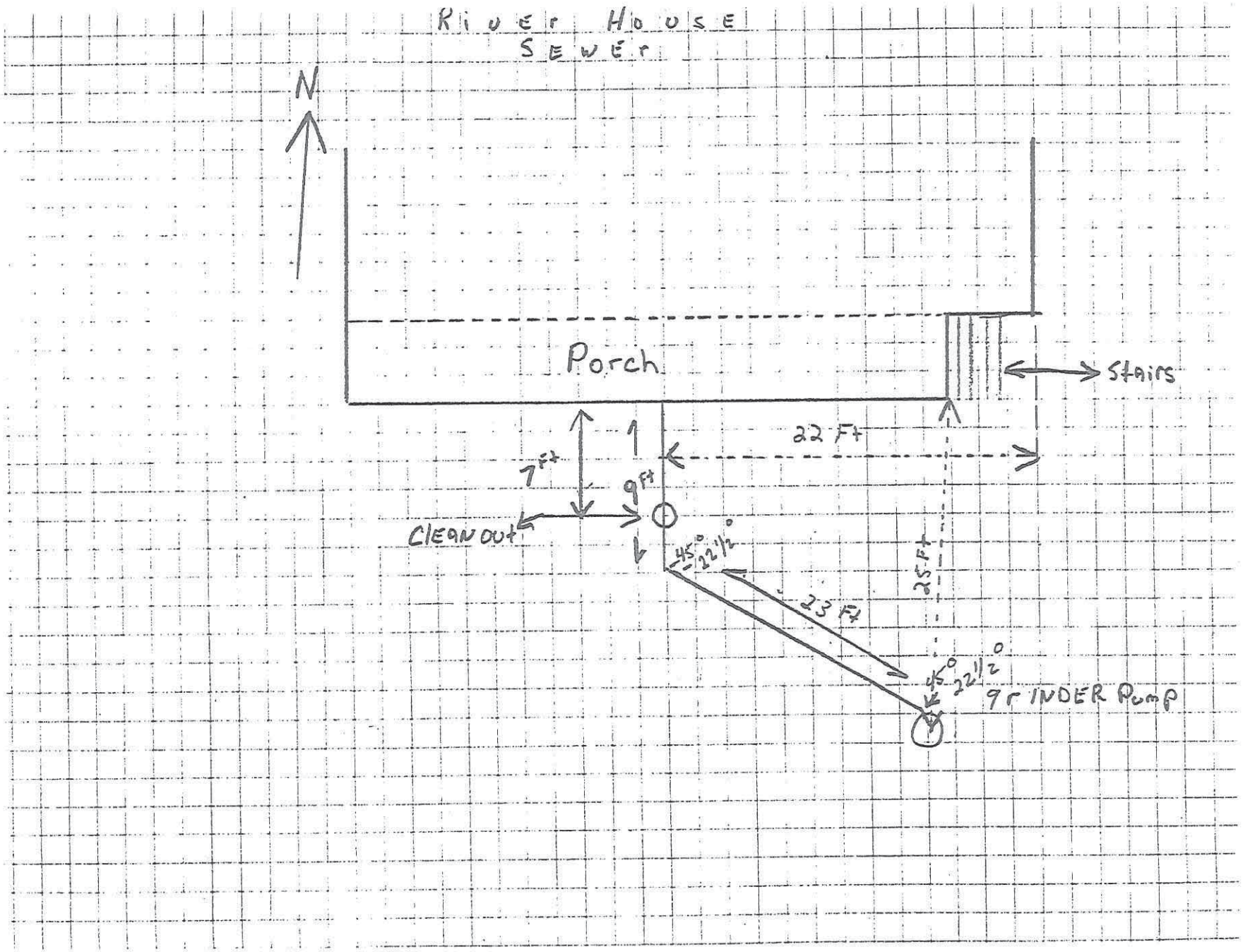
11·30·99
Date

Peter R. Linko
Applicants Signature

☒ APPROVED ☐ DISAPPROVED

11/30/99
Date

Wayne Shane
Building Official


River House
Sewer
N
Porch
Stairs
22 Ft
7 Ft
9 Ft
Clean out
45° 22½°
23 Ft
25 Ft
45° 22½°
9r INDER Pump

Appendix C

Chemical Tests of Site Supply Well

STATE OF CONNECTICUT

Department of Health Services
Laboratory Division
10 Clinton St.
P.O. Box 1689
Hartford, CT 06144
TELEPHONE: (203) 566-5063

I.D.	ACCESSION NO.	ACCOUNT NO.			ROUTE	PAGE
NR:96	22131522	S06423				1

POTABLE WATER
EAST HADDAM TOWN SANITARIAN
THOMAS ARMENTANO R.S
TOWN HALL RT.82
EAST HADDAM CT 06423

INFORMATION

041EAST HADDAM
E.HADD.HIGHWAY GAR.
ROUTE 82
EAST HADDAM CT

COLLECTED	RECEIVED	REPORTED
03/17/92 00:00	03/17/92 13:31	03/18/92 14:58

REPORT: FINAL REPORT

COMMENT:

TEST	RESULT	ACCEPTABLE RANGE	LOW	ACCEPTABLE RANGE	HIGH
***					
(SAMPLING POINT: SINK)					
(COLLECTOR: TOM ARMENTANO TITLE: R.S.)					
(PUBLIC WELL TREATMENT: NONE)					
(REASON: POSSIBLE CONTAMINATION WITH INFILT.THROUGH SOIL)					
(COMPLAINT: NONE)					
(USE: CONSTANT)					
(SOURCE: DRILLED WELL)					
(DEPTH: 0158FT DIAMETER: 06IN NOT EVID.AT THIS TIME)					
(POSSIBLE POLLUTION: SEPTIC TANK)					
***					
DATE/TIME ANALYZED	3/17/92 14:15				
ANALYZED BY	RG/ND				
ANALYTICAL METHOD	MEMBRANE FILTER TECHNIQUE FOR MICROBIOLOGICAL ANALYSES ONLY				
TOTAL COLIFORM	ABSENT	PER 100 ML			
*** THIS IS A FINAL REPORT. ***					

FORM NO. OL-6A

STATE OF CONNECTICUT

Department of Health Services
Laboratory Division
10 Clinton St.
P.O. Box 1689
Hartford, CT 06144
TELEPHONE: (203) 566-5063

I.D.	ACCESSION NO.	ACCOUNT NO.			ROUTE	PAGE
NR:95	22131323	006423				1

INFORMATION

041EAST HADDAM
E.HADDAM TOWN HALL
ROUTE 82
EAST HADDAM CT

POTABLE WATER
EAST HADDAM TOWN SANITARIAN
THOMAS ARMENTANO R.S
TOWN HALL RT.82
EAST HADDAM CT 06423

COLLECTED	RECEIVED	REPORTED
03/17/92 03:00	03/17/92 13:31	03/18/92 14:50

REPORT: FINAL REPORT

COMMENT:

TEST	RESULT	ACCEPTABLE RANGE	LOW	ACCEPTABLE RANGE	HIGH
***					
(SAMPLING POINT: SINK)					
(COLLECTOR: TOM ARMENTANO TITLE: R.S.)					
(PUBLIC WELL TREATMENT: NONE)					
(REASON: POSSIBLE CONTAMINATION WITH INFILT.OF SOIL)					
(COMPLAINT: NONE)					
(USE: CONSTANT)					
(SOURCE: DRILLED WELL)					
(DEPTH: 0185FT DIAMETER: 06IN NOT EVID.AT THIS TIME)					
(POSSIBLE POLLUTION: SEPTIC TANK)					
***					
DATE/TIME ANALYZED	3/17/92 14:15				
ANALYZED BY	RG/ND				
ANALYTICAL METHOD	MEMBRANE FILTER TECHNIQUE FOR MICROBIOLOGICAL ANALYSES ONLY				
TOTAL COLIFORM	ABSENT	PER 100 ML			
*** THIS IS A FINAL REPORT. ***					

FORM NO. OL-6A

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client: Land-Tech Consultants

Address: 205 Playhouse Corner
Southbury, CT 06488

Attn: M. Bartos

Project Number: E00199-04

Site: 7 MAIN

Laboratory Job Number: L0007455

Invoice Number: 40959

Date Received: 30-AUG-00

Date Reported: 12-SEP-00

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0007455-01	TAP	EAST HADDAM

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____

Scott McLean - Laboratory Director

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0007455-01
TAP
Sample Matrix: WATER

Condition of Sample: Satisfactory

Number & Type of Containers: 2-Amber,1-Plastic

Date Collected: 30-AUG-2000
Date Received : 30-AUG-2000
Date Reported : 12-SEP-00

Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Hydrocarbons, Total(IR)	ND	mg/l	0.95	4	418.1	05-Sep	05-Sep	TH
Total Metals				3	200.7			
Arsenic, Total	ND	mg/l	0.010	3	200.7		11-Sep	RW
Barium, Total	ND	mg/l	0.01	3	200.7		11-Sep	RW
Cadmium, Total	ND	mg/l	0.005	3	200.7		11-Sep	RW
Chromium, Total	ND	mg/l	0.01	3	200.7		11-Sep	RW
Lead, Total	0.001	mg/l	0.001	3	200.9		11-Sep	TT
Mercury, Total	ND	mg/l	0.0002	4	245.2	06-Sep	07-Sep	AG
Selenium, Total	ND	mg/l	0.005	3	200.9		12-Sep	TT
Silver, Total	ND	mg/l	0.01	3	200.7		11-Sep	RW

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0007455

Parameter	Value 1	Value 2	RPD	Units
Hydrocarbons, Total(IR) for sample(s) 01 (L0007364-03, WG63641)				
Hydrocarbons, Total(IR)	5.7	6.2	8	mg/l
Total Metals for sample(s) 01 (L0007455-01, WG64190)				
Arsenic, Total	ND	ND	NC	mg/l
Barium, Total	ND	ND	NC	mg/l
Cadmium, Total	ND	ND	NC	mg/l
Chromium, Total	ND	ND	NC	mg/l
Lead, Total	0.001	0.001	5	mg/l
Selenium, Total	ND	ND	NC	mg/l
Silver, Total	ND	ND	NC	mg/l
Total Metals for sample(s) 01 (L0007455-01, WG63788)				
Mercury, Total	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0007455

Parameter	% Recovery
Hydrocarbons, Total(IR) LCS for sample(s) 01 (WG63641)	
Hydrocarbons, Total(IR)	85
Total Metals LCS for sample(s) 01 (WG63788)	
Mercury, Total	106
Hydrocarbons, Total(IR) SPIKE for sample(s) 01 (L0007455-01, WG63641)	
Hydrocarbons, Total(IR)	88
Total Metals SPIKE for sample(s) 01 (L0007455-01, WG64190)	
Arsenic, Total	103
Barium, Total	110
Cadmium, Total	105
Chromium, Total	110
Lead, Total	96
Selenium, Total	81
Silver, Total	100
Total Metals SPIKE for sample(s) 01 (L0007455-01, WG63788)	
Mercury, Total	132

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0007455

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Blank Analysis for sample(s) 01								
Hydrocarbons, Total(IR)	ND	mg/l	0.50	4	418.1	05-Sep	05-Sep	TH
Blank Analysis for sample(s) 01								
Total Metals								
Mercury, Total	ND	mg/l	0.0002	4	245.2	06-Sep	07-Sep	AG

REFERENCES

3. Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-82-055. 1982.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Project Information		Client Information	
Project Name:	MAIN	Send Reports to:	M. BARTOS
Project No.:	E00199-04	Company:	LAND-TECH CONSULTANTS
Project Location:	E. HADDAM	Address	205 PLAYHOUSE CR.
Project Manager:	M. BARTOS		SOUTHBURY CT 06488
Sampler(s):	M. BARTOS	Phone:	203. 264. 8300
PO #:		Fax:	203. 264. 5995
Lab Quote #:		Email:	
Turn-Around: (Less than 10 days must be approved)	☒ Standard business days ☐ Other (specify) ☐ Approved by:	Final Report:	☒ Mail ☐ Email ☒ Fax ☐ EDT Diskette (if check, call for pricing) Disk format:

TPH-IR
RCRA-8 METALS

FILTRATION (0.45 & PRESERVATION INFO TION

FILTRATION	PRESERVATION
☐ DONE	☐ DONE
☐ NOT NEEDED	☐ NOT NEEDED
☐ LAB TO DO*	☐ LAB TO DO*

*Please specify which samples need to be filtered and/or preserved by the lab.

SPECIAL DETECTION LIMITS

MCP _____
CT _____
NYSTARS _____
OTHER _____

Page

TOTAL # OF BOTTLES

Lab ID (Lab Use Only)	Client/Field Sample ID	Collection Date	Collection Time	Sample Source / Matrix	Analyses (write test methods above & "x's" below for each sample to be tested)	Sample Remarks (below)	TOTAL # OF BOTTLES
	~~TAP~~	~~8/30/00~~		~~D.W.~~	~~XX~~		
	TAP	8/30/00		D.W.	2 1		2

MATRIX
Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
Phone: (800) 362-8749
Fax: (508) 435-2497

NOTES:

CHAIN-OF-CUSTODY RECORD

Relinquished By:	Date/Time	Received By:	Date/Time	Condition of Samples Upon Arrival
M. Bartos	8/30/00	Linda Edmonds	8/30/00 11:55	☐ Okay ☐ Problem(s) ☐ Temp. _____
L. Edmonds	8/30/00	R Tyler	8/30/00 1425	Distribution of Copies: White - Lab Yellow-Report Pink-Client

17/15

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

October 26, 2001

TOWN OFFICE COMPLEX
WAYNE GREEN
7 MAIN STREET
P O BOX K
EAST HADDAM, CT 06423

PUBLIC WATER SYSTEM:	**TOWN OFFICE COMPLEX**
ADDRESS:	**7 MAIN STREET**
PWSID:	**CT0410264**
ATTENTION:	**WAYNE GREEN**

SUBJECT: MONITORING/REPORTING VIOLATION OF PUBLIC HEALTH CODE SECTION 19-13-B102

The Connecticut Public Health Code (PHC) Section 19-13-B102 requires that public water systems must conduct or have conducted specific laboratory tests to monitor the water quality of their supply. Section (h) of this regulation requires the system to report to the State Department of Public Health the results of those tests no later than nine (9) days following each month that the tests are required.

The public water system named above is in violation of PHC Section 19-13-B102 for failure to monitor and/or report quarterly water quality test results for **total coliform bacteria** and **physical parameters** (pH, color, odor, turbidity) during the period of July 1, 2001 to September 30, 2001.

The system is thereby required to notify the consumer of the above violation pursuant to Section 19-13-B102(i)(2) of the PHC. A standard notification form is enclosed for your use. This public notification form must be filled out and posted in a conspicuous place where it can be viewed by all persons who may have exposure to the water at all facilities served by the water system within 90 days of the violation pursuant to Section 19-13-B102(i)(2) of the PHC. Failure to inform the public may lead to the imposition of civil penalties pursuant to Section 25-32e-1 of the Regulations of Connecticut State Agencies. **A copy of the actual notification issued must be forwarded to this office no later than December 31, 2001.**

Your next compliance samples for total coliform bacteria and physical parameters are due to be collected between October 1, 2001 and December 31, 2001, and the test results must be submitted to this office no later than January 9, 2002.

Phone: (860) 509-7333
Telephone Device for the Deaf (860) 509-7191
410 Capitol Avenue - MS # 51WAT
P.O. Box 340308 Hartford, CT 06134
An Equal Opportunity Employer

If you have any questions regarding this matter, please contact the Water Supplies Section's Transient Non-Community Program at (860) 509-7333.

Sincerely,

Cameron Walden
Sanitary Engineer 3
Water Supplies Section

enc. Public Notification Form

cc: Dr. Kathryn Johnson, Acting Director of Health, Town of East Haddam

STATE OF CONNECTICUT
Department of Public Health
Division of Laboratory Services
10 Clinton St., P.O. Box 1689
Hartford, CT 06144
CONN. CLINICAL TESTING LICENSE # CL-0197
TELEPHONE: (860) 509-8500

I.D.	ACCESSION NO.	ACCOUNT NO.	AGE	S		PAGE
NR: 11&12	22295971	S06423	0			1

INFORMATION
041EAST HADDAM
TOWN OFFICE BLDG
RT 82
EAST HADDAM CT 06423

PUBLIC WATER
EAST HADDAM TOWN SANITARIAN
THOMAS ARMENTANO R.S
TOWN HALL RT.82
EAST HADDAM CT 06423

COLLECTED	RECEIVED	REPORTED
02/28/02 15:00	03/01/02 24:02	03/04/02 10:18

REPORT: FINAL REPORT

COMMENT:

TEST(S)	RESULT(S)
	RES, WELL OR SPRING NAME: SINK
	COLLECTOR: TREMBLAY, FERN TITLE: BLDG OFFICIAL
***	
DATE/TIME ANALYZED	3/1/02 1415
ANALYZED BY	RG
ANALYTICAL METHOD	COLILERT MMO-MUG FLUORESCENCE
TOTAL COLIFORM	ABSENT PER 100 ML
CONF. TOTAL COLIFORM	ABSENT PER 100 ML
ESCHERICHIA COLI	ABSENT PER 100 ML
*** UNITS: MG/L UNLESS NOTED	
NITRATE	"
NITRITE	UNSUITABLE

------ ** END OF REPORT **

Appendix D

DEP Tank Registration and Other Tank Data

FACILITY NOTIFICATION

UNDERGROUND STORAGE FACILITIES PROGRAM
HAZARDOUS MATERIALS MANAGEMENT UNIT
165 Capitol Avenue, Hartford, CT 06106
TEL 566-4630

PLEASE TYPE ALL THREE COPIES MUST BE LEGIBLE!
Refer to INSTRUCTIONS FOR FILING NOTIFICATION before completing form.

SECTION A

1a. ☐ FIRST NOTIFICATION
or
1b. ☒ SUBSEQUENT NOTIFICATION (If checked, enter No.) 426

BASIN 4000

FOR STATE AGENCY USE ONLY
2. DATE RECEIVED: 11/28/86
3. FACILITY ID: 426
4. DATE ENTERED: 7-8-87
5. GRID COORDINATES: X ____ Y ____
6. DOES FACILITY MEET NEW REQUIREMENTS? ☐ YES ☐ NO

SECTION B

1. LOCATION OF FACILITY	SITE NAME: TOWN GARAGE	NO. AND STREET: NORWICH RD.	NEAREST INTERSECTING STREET: E.H. BRIDGE	CITY OR TOWN: EAST HADDAM	STATE: CT	3. LATITUDE: 41° 27' 10" / LONGITUDE: 72° 27' 16"
4. BUSINESS NAME AND MAILING ADDRESS	NAME: TOWN OF EAST HADDAM	NO. AND STREET: NORWICH RD.		CITY OR TOWN: EAST HADDAM	STATE: CT	ZIP CODE: 06423 / TELEPHONE: (203 873-8615
7. FACILITY OWNER	NAME: TOWN OF EAST HADDAM	NO. AND STREET: NORWICH. RD.		CITY OR TOWN: EAST HADDAM	STATE: CT	ZIP CODE: 06423 / TELEPHONE: 203-873-8615
8. TYPE OF OWNER	☐ PRIVATE ☐ STATE ☒ MUNICIPAL ☐ FEDERAL (G.S.A. No. ____)					
OPERATOR/CONTACT PERSON	NAME: JOHN BLASCHIK, JR.	NO. AND STREET: NORWICH RD.		CITY OR TOWN: EAST HADDAM	STATE: CT	ZIP CODE: 06423 / TELEPHONE: 203 873-8615

SECTION C

10. TANK ID	11a. DATE OF INSTALLATION (Mo., Yr.)	11b. USE EXPECTANCY (In years)	12a. TOTAL CAPACITY (Gals.)	12b. STATUS: IN USE	ABANDONED IN PLACE	REMOVED	DATE TANK LAST USED (Mo., Yr.)	13. TYPE OF COMMENTS: OIL BASED (SEA PRODUCT)	CHEMICAL (LIQUID)	14. CONTENTS: CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name) (Enter C.A.S. No., if known)	15. CONSTRUCTION MATERIALS: STEEL	FIBERGLASS REINFORCED PLASTIC	OTHER (Specify from list A)	16. PROTECTION a. INTERNAL: LINED	a. INTERNAL: UNLINED	b. EXTERNAL: CATHODIC PROTECTION	b. EXTERNAL: COATED/WRAPPED	b. EXTERNAL: CATHODIC PROTECTION	17. INTEGRAL PIPING SYSTEM: a. OTHER (Specify from list B)	a. CONSTRUCTION MATERIAL (See codes)	b. DATE OF INSTALLATION OR REPLACEMENT (Mo./Yr.)	18. MONITORING SYSTEM (Specify type from list)	19. FAILURE DETERMINATION CONDUCTED? ("YES", enter DATE and attach results) ("NO", enter "NO")
Example	5/75	30	5000	X				X		Heating fuel #2		X			X				H	5	5/75	U	NO
Example	7/60	–	8000				X 8/78		X	1,1,1- Trichloroethane CAS #71016	X				X				E	7	7/60	U	—
A1	?	15	1000	X				X		Unleaded Gasoline	X				X				D	7	–	0	No
B1	?	15	2000	X				X		Regular Gasoline	X				X				D	7	–	0	No
C1	?	15	1000	X				X		Heating Oil	X				X				D	7	–	0	No
	PRE-1980																							

SECTION D

20. HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? ☒ YES

21. COMMENTS:

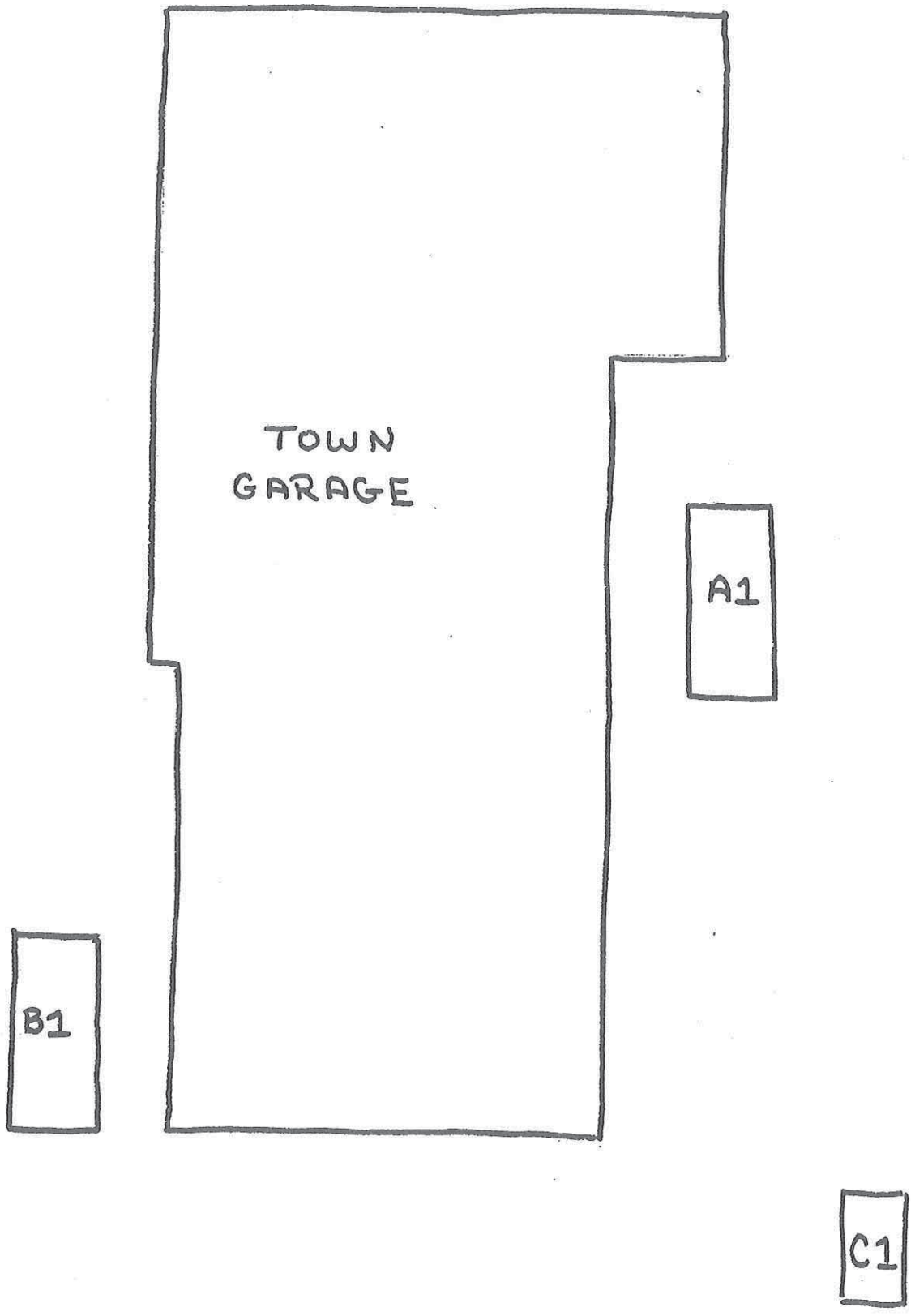
22. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. Penalties: any owner who knowingly fails to notify shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

23a. SIGNATURE: X John Blaschik Jr.

23b. DATE SIGNED: 11-17-86

23c. NAME (Type or Print): John Blaschik, Jr.

23d. OFFICIAL TITLE (If owner or authorized representative): First Selectman


TOWN
GARAGE
A1
B1
C1

UNDERGROUND STORAGE FACILITY NOTIFICATION

2. PG 1 of 1

1a [X] FIRST NOTIFICATION OR
b [ ] SUBSEQUENT NOTIFICATION (if checked, enter no.)

SITE I.D.

STATE OF CONNECTICUT
Department of Environmental Protection
UNDERGROUND STORAGE FACILITIES PROGRAM
Bureau of Waste Management
79 ELM STREET, Hartford, CT 06106-5127
TEL. (860) 424-3374

PLEASE TYPE OR PRINT. ALL THREE COPIES MUST BE LEGIBLE
Refer to INSTRUCTIONS FOR FILING NOTIFICATION before completing form.

EPHM-6 Rev 5-94

3. FOR STATE AGENCY USE ONLY | A DATE ENTERED | B FEE BILLED | C FEE RECEIVED

D GRID COORDINATES X ____ Y ____ | E DOES FACILITY MEET NEW REQUIREMENTS? [ ] YES [ ] NO

4 LOCATION OF FACILITY	SITE NAME: PUBLIC WORKS GARAGE	NO. AND STREET: 17 MAIN ST.	NEAREST INTERSECTING STREET: LUMBERYARD RD.	CITY OR TOWN: EAST HADDAM	STATE: CT	5 LATITUDE: 41° 27' 09" LONGITUDE: 72° 27' 42"
6. BUSINESS NAME AND MAILING ADDRESS	NAME: PUBLIC WORKS DEPARTMENT	NO. AND STREET: 7 MAIN ST.		CITY OR TOWN: EAST HADDAM	STATE: CT	ZIP CODE: 06423	TELEPHONE: (860) 873-5043
7. FACILITY OWNER	NAME: SUSAN D. MERROW FIRST SELECTMAN	NO. AND STREET: 7 MAIN ST.		CITY OR TOWN: EAST HADDAM	STATE: CT	ZIP CODE: 06423	TELEPHONE: (860) 873-5020
8. TYPE OF OWNER	[ ] PRIVATE [ ] STATE [X] MUNICIPAL [ ] FEDERAL (G.S.A. NO. ____)						
9. OPERATOR/CONTACT PERSON	NAME: PETER LINKO	NO. AND STREET: 7 MAIN ST.		CITY OR TOWN: EAST HADDAM	STATE: CT	ZIP CODE: 06423	TELEPHONE: (860) 873-5073

10. TANK I.D.	11a. DATE OF INSTALLATION (Mo./Yr.)	11b. LIFE EXPECTANCY (# of years)	12a. TOTAL CAPACITY (Gals.)	12b STATUS: IN USE	ABANDONED IN PLACE	EST. QUANTITY LEFT STORED (If any) (Gals.)	REMOVED	DATE TANK LAST USED (Mo./Yr.)	13 TYPE OF CONTENTS: OIL/PETROLEUM PRODUCT	CHEMICAL LIQUID	14. CONTENTS: CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name) (Enter C.A.S. No., if known)	15. CONSTRUCTION MATERIALS: STEEL	FIBERGLASS REINFORCED PALSTIC	OTHER- (Specify from List A)	16. PROTECTION a. INTERNAL: LINED	UNLINED	CATHODIC PROTECTION	b. EXTERNAL: COATED/ WRAPPED	CATHODIC PROTECTION	OTHER- (Specify from List B)	17. INTEGRAL PIPING SYSTEM a. CONSTRUCTION (See List A)	b. PROTECTION (See List B)	c. DATE OF INSTALLATION OR REPLACEMENT (Mo./Yr.)	18. MONITORING SYSTEM (Specify type from list 3)	19. FAILURE DETERMINATION CONDUCTED? (If "YES", enter "DATE" and attach results) (If "NO", enter "NO")
Example	5/75	30	5000	X					X		Heating fuel #2		X			X				H	3	H	5/75	U	NO
Example	7/60	–	8000				X	8/78		X	1,1,1,-Trichloroethane CAS #79016	X				X				E	7	W	7/60	U	–
A1	?	15	1000				X	1/6/00	X		GASOLINE ?	X				X				H	7	H	?	U	NO
B1	?	15	~~550~~ 550	X					X		HEATING OIL #2	X				X				H	7	H	?	U	NO

20. HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? [X] YES

21. COMMENTS:

22. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete.
Penalties: any owner who knowingly fails to notify shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

22a. SIGNATURE: X Peter Linko — Agent for Owner - CT
22b. DATE SIGNED: 1/12/00
22c. NAME (Type or Print): PETER LINKO
22d. OFFICIAL TITLE (of owner or authorized representative): DIR. OF PUBLIC WORKS

COPY 3: RETAIN FOR YOUR RECORDS. Paid

TOWN OF EAST HADDAM

ZONING AND BUILDING APPLICATION

(Your application can not be reviewed until all required information is provided)

Permit # 0106-0100 Location TOWN OFFICE 7 MAIN St.
No. Street

Map # 17 Lot # 15 Lot Size _____ Zone _____ Subdivision _____

Owner's Name TOWN OF EAST HADDAM Phone # _____

Address P.O. Box K MAIN St.
No. Street P.O. Box

EAST HADDAM Ct. 06423
Town State Zip

Contractor HIGHWAY DEPT.

Address _____
No. Street P.O. Box

License # _____

Town State Zip

Phone # _____

CONSTRUCTION: New ___ Alteration ___ Addition ___ Repair ___ Demolition ___ Estimated Cost ~~TO BE FILLED~~ $ 2000

BRIEF DESCRIPTION OF PROPOSED WORK: REMOVE 500 GAL FUEL TANK (paint shed)

EXISTING BUILDING: Total sq. ft. of all floors _____ sf. # of stories _____ Height _____ # of bedrooms _____

PROPOSED ADDITION / NEW BUILDING: Total sq.ft. of new work _____ sf. # of stories _____ Height _____ # bedrooms (including exiting) _____

SEPARATE PERMITS ARE REQUIRED FOR ELECTRICAL, HEATING, PLUMBING, WELL, WELL PUMP AND SEPTIC SYSTEMS

Proposed Work:

Is any work being done to the septic system? Yes ___ No ___

Is any work being done to the well? Yes ___ No ___

Is any work being done in Historic District Yes ___ No ___

Is any work being done within 75 ft. of a lake, pond, river, perrenial, stream and / or soil types designates as poorly drained, very poorly drained, alluvial and floodplain? Yes ___ No ___

Other Appeals or Reviews Required / Received

___ Tax Collector _____

___ Historic Comm. _____

___ Variance _____

___ Inland Wetlands _____

___ Flood Hazard Zone _____

___ Driveway Permit _____

Signatures: _____ Owner Date _____ Agent Date 1/5/00

OFFICE USE ONLY

___ APPROVED ___ DISAPPROVED Permit Fee Paid _____ Check # _____

Zoning Official _____ Date _____

Comments _____

X APPROVED ___ DISAPPROVED Permit Fee Paid waived Check # ___

Building Official Wayne Jones Date 1.5.00

Comments _____

White: Building Department Yellow: Applicant Pink: Assesor Gold: Zoning Department

Shire Corporation
795 Route Thirty-Two, P.O. Box 6
North Franklin, Connecticut 06254-0006
Telephone (860) 642-6618

January 12, 2000

Town of East Haddam
P.O. Box K
East Haddam, CT 06423

Subject: Disposal of Storage Tanks

Dear Sirs:

On 10 January 2000 we disposed of two tanks removed from your property located on 7 Main Street in East Haddam, Connecticut.

The tanks were as follows:

1.) one One Thousand gallon underground storage tank.
2.) one Five Hundred Fifty gallon underground storage tank.

The tanks have been disposed of according to federal, state, and local regulations and rendered unfit for further use. Frequent inspections of the Shire yard by Connecticut Department of Environmental Protection staff insure compliance with all state and federal environmental regulations.

Please feel free to call Len or Lori at 1-800-491-7726 with any questions.

Sincerely yours,

Leonard E. Wiese, Sr.
President

PERMIT NO. 1031-0289 APPLICATION FOR PLUMBING PERMIT TOWN OF EAST HADDAM
LICENSE NO. 203832 (Application must be typed or printed) CONNECTICUT

LOCATION OF JOB (NO. & STREET)	CARD NO	MAP	BLOCK	LOT
Town Garage		17		15
OWNER: Town of E. Haddam	ADDRESS (NO. STREET, TOWN, STATE, ZIP)			PHONE
APPLICANT: Mike Mares	ADDRESS (NO. STREET, TOWN, STATE, ZIP)			PHONE
PLUMBING CONTRACTOR: Mares & Son Inc	ADDRESS (NO. STREET, TOWN, STATE, ZIP): Town St Haddam			PHONE: 873-8495

TYPE OF WORK BEING DONE
- ☐ ORIG CONSTRUCTION ☐ REPAIR
- ☑ ALTERATION ☐ DEMOLITION
- ☐ ADDITION _____

CLASSIFICATION
USE GROUP _____
CONSTRUCTION TYPE _____
SPECIFIC USE _____

REMARKS
Tentell 550 above ground gasoline tank at Town Garage

APPLIANCES

	NO.	MFR
DISH WASHER		
GARBAGE DISPOSAL		
CLOTHES WASHER		

Fee: to $999.00 - $10.00

$5.00 for each additional $1,000.00 or part

	COST	FEE
ESTIMATED		
ACTUAL		Waived
DIFFERENCE		
ADDITIONAL		

All Permits Must Be Posted And Visible From The Street

LICENSE # 203832

WATER SUPPLY

PUMP CONTRACTOR _____ STREET _____ TOWN _____ STATE _____

☐ WELL ☐ SPRING ☐ PUBLIC ☐ ASSOCIATION IF WELL TYPE _____ DEPTH _____ STATIC LEVEL _____

_____ GAL. PER MIN AT _____ FT _____ GAL. PER MIN AT _____ FT _____ GAL. PER MIN AT _____ FT

PUMP MANUFACTURER _____ MODEL _____ H.P. _____ GPM _____ DEPTH SET _____

ELECTRICAL WORK DONE BY _____ TOWN _____ STATE _____

	WATER HEATER	WATER TANK
TYPE		
MAKE		
MODEL		
CAPACITY	gal	gal
TEST PRESSURE	p.s.i	p.s.i
WORKING PRESSURE	p.s.i	p.s.i
TEMP. RELIEF		
PRESSURE RELIEF	p.s.i	p.s.i.

PIPE

	SIZE	TYPE	INSPECTED
BUILD DRAIN			
SOIL			
MAIN VENT			
WASTE			
OTHER VENT			
COLD SUPPLY			
HOT SUPPLY			

FIXTURES

	NO	STYLE
BATHTUB		
SHOWER		
TOILET		
SINK		
LAVATORY		
WASH TUB		
URINAL		
BIDDET		

All work covered by this application has been authorized by the (owner) or (agent) of this property and will be done according to state regulations. This permit shall lapse if work does not commence within 6 months

10/31/87 Date — Mike Mares Applicants Signature

☑ APPROVED ☐ DISAPPROVED

10/31/87 Date — Sam Pescetello Building Official

Office Copy

Appendix E

Manifests from January 2000 Waste Removal Action

EPHM-2 REV. 5/97

STATE OF CONNECTICUT

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Hazardous Waste MANIFEST PROGRAM
79 Elm St., Hartford, CT 06106-5127

FOR STATE USE ONLY

Please type (or print) *(Form designed for use on elite (12-pitch) typewriter.)*

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C.T.P.0.0.0.2.3.3.6.6 — Manifest Document No. 9 7 7 8 4 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but may be required by State law

A. State Manifest Document Number: CT F 0887784

3. Generator's Name and Mailing Address:
TOWN OF EAST HADDAM
7 MAIN ST
EAST HADDAM, CT 06423
4. Generator's Phone (860 873-5020

B. G.S.I. (Gen. Site Address): SAME

5. Transporter 1 Company Name: Environmental Services, Inc. — 6. US EPA ID Number: C T D 0 1 8 6 1 1 8 0 2 — C. S.T.I. (Trans. Lic. Plate #): CT 914

7. Transporter 2 Company Name — 8. US EPA ID Number — D. Tran. Phone (860 528-9500

9. Designated Facility Name and Site Address:
SAFETY-KLEEN (N.E.), INC.
300 CANAL ST
LAWRENCE, MA 01840
10. US EPA ID Number: M A D 0 0 0 6 0 4 4 4 7 — E. S.T.I. (Trans. Lic. Plate #) — F. Tran. Phone ( ) — G. State Facility's ID (Not Required) — H. Facility's Phone (978) 683-1002

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Toluene, 3, UN1294 PG II	001	DM	00055	G	EPA D001, U220 STATE
b. Waste Paint Related material, 3, UN1263 PG II	003	DM	00130	G	EPA D001 D003 D035 STATE F003 F005
c. Waste Paint Related material, 3, UN1263 PG II (pgo1)	002	DM	00110	G	EPA D001 D007 D008 D035 STATE
d. Waste Toxic, Liquid, Organic NOS. (2,4-Dichlorophenoxy acetic acid, Isopropylamine salt) hzd, UN2810 PG II	001	DM	00030	G	EPA D016, U240 STATE

J. Additional Descriptions for Materials Listed Above

a. 2206397 — c. 2206388

b. 2206389 — d. 2206391

K. Handling Codes for Wastes Listed Above

	Interim	Final		Interim	Final
a.	S01		c.	S01	
b.	S01		d.	S01	

15. Special Handling Instructions and Additional Information — EMERGENCY CONTACT (978) 683-1002 // EST PROJECT # 200078

11a ERG# 130 11c ERG # 127
11b ERG# 127 11d ERG# 153

Point of Departure:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and all applicable State laws and regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Peter R. Linko — Signature: Peter R. Linko — Month Day Year: 10 12 00

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Mike Ciacci — Signature: Mike Ciacci — Month Day Year: 10 12 00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name: D Mallis (Lamperaud) — Signature: Mallis Lamperaud — Month Day Year: 10 12 00

IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802 FOR SPILLS WITHIN CONNECTICUT, CONTACT CT DEP'S OIL AND CHEMICAL SPILL RESPONSE AT (860) 566-3338

EPA Form 8700-22 (Rev. 9/91) Form Approved OMB No. 2050-0039

COPY 3: FACILITY TO GENERATOR

CT F 0001104

2206388

safety-kleen

MATERIAL PROFILE

Safety-Kleen (SK) Use Only	If applicable, Intercompany Billing Facility #	Customer Number:	SK Line Of Business #:	Facility Profile #:

A. GENERATOR INFORMATION

☐ Check if Billing Information is same as Generator Information

Generator Name: Town of East Haddam
Facility Address (No P.O. Box): 7 Main St
City/State/Zip: E. Haddam CT 06423
Technical Contact: P Lurko
Phone: 860 873 5020 Fax:
Generator Location (If different from Facility Address):
SIC Code: ☐ CESQG ☐ SQG US EPA ID # CTR000023360 State Generating ID #:

Billing Company: Erin Sand Inc
Billing Address: 50 Brainard St
City/State/Zip: S. Windsor, CT
Billing Contact:
Phone: Fax:

B. SHIPPING INFORMATION

☐ DOT Assistance Requested ☐ Check if SK Transportation Services are requested

US DOT Proper Shipping Name: Paint Related Material
Hazard Class / Division #: 3 ID # (UN/NA): 1263 Packing Group (PG): II RQ:

Non-Bulk Shipping Containers

Size	Steel	Poly	Fiber	Quantity	Frequency
55 Gal	☐	☐	☐	2 DM	1 X
___ Gal	☐	☐	☐		
___ Gal	☐	☐	☐		
___ Gal	☐	☐	☐		

Bulk Shipping Containers

Container Type	Quantity & Size	Frequency
☐ Yd.³ Box or ☐ Super Sack		
☐ Hard Top or ☐ Tarped Bin		
☐ End Dump (Tarped) Trailer		
☐ Tank or ☐ Vacuum Trailer		

C. GENERAL MATERIAL & REGULATORY INFORMATION

Name of Material: Paint in Cans
Process Generating The Material: cleaning material
Odor: ☐ None ☒ Mild ☐ Strong; Describe: Solvent

Yes	No		Yes	No	
☐	☒	Regulated or Licensed Radioactive Waste	☐	☒	Meets LDR Standards or ☐ Partially Meets (For Landfill Only)
☐	☒	Regulated Medical / Infectious Waste	☐	☒	Commingled Waste (Two or more hazardous wastes mixed as one)
☐	☒	Waste Subject To Benzene NESHAP Regulations	☐	☒	Sorbent Added; If Yes, is sorbent biodegradable? ☐ Yes ☐ No
☐	☒	TSCA Regulated PCB Waste (List any PCB level in Sec.D)	☐	☒	Exempt Waste; If Yes, list reference 40 CFR
☐	☒	Regulated Subpart CC Waste (VOs ≥ 500 ppm)	☐	☒	State Hazardous Waste; State Code
☐	☒	Regulated Ozone Depleting Substance	☒	☐	EPA Hazardous Waste
☐	☒	CERCLA Regulated (Superfund) Waste			EPA Waste Codes (including any LDR subcategories, e.g., D003 Water Reactive):
☐	☒	Hazardous Debris (Subject to alternative LDR treatment standards)			D001, D007, D008
☐	☒	Waste Contains UHCs/Constituents of Concern			
		If Yes, list in ☐ Sec. D or ☐ Constituent Addendum			

EPA Haz Waste Only Origin Code: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 Source Code: A _____ Form Code: B _____ System Code: M _____

D. MATERIAL COMPOSITION

1. Chemical / Physical Constituents: List all detectable components by chemical name, including physical material, e.g., sorbent, debris.

Chemical Constituents & Composition	ppm	☐ wt% ☐ vol%	Chemical Constituents & Composition	ppm	☐ wt% ☐ vol%
Clays (crystal)		10-20	Pigment		
mineral spirits		30-40	lead chromate		4-8
Xylene		5-10	Lead oxide (Pb_3O_4)		4-8
Toluene		5-10	Titanium Dioxide		4-8
Ethyl Benzene		5-10	Methyl Ethyl Ketone		1-5
Acrylic Resins		10-20			
Alkyd Resins		10-20			

Section D continues on the next page for Elemental Constituents → Range Total ≥ 100%

DWALKER.SK.MATERIAL.PROFILE.Rev.02.01.99

GENERATOR

2206388

Note: Completion of Sections D.2 & F is optional for: ☐ Analytical Profile (representative sample submitted; test results used to complete D.2 & F)
Completion of Sections D.2, E & F is optional for: ☐ Standard Industry Profile (Safety-Kleen Corp. historical data utilized to complete D.2, E, & F)

D. MATERIAL COMPOSITION (Continued)

2. Elemental Constituents ☐ Check if this waste contains No Detectable Elements / Metals, unless listed below.

Check either: ☐ Total Analysis or ☐ TCLP Method or ☒ Generator Knowledge, then enter data below.

Constituent	ppm	Constituent	ppm	Constituent	ppm	Constituent	ppm	Constituent	ppm
Aluminum		Cadmium		Fluorine		Nickel		Sodium	
Antimony		Chlorine		Lead	<70,000	Phosphorous		Sulfur	
Arsenic		Chromium	<70,000	Lithium		Potassium		Thallium	
Barium		Cobalt		Manganese		Selenium		Titanium	
Beryllium		Copper		Mercury		Silicon		Vanadium	
Bromine		Iodine		Molybdenum		Silver		Zinc	

E. REACTIVE CHARACTERISTICS

☒ Check if this waste exhibits No Reactive Characteristics

Yes	No		Yes	No		Yes	No	
☐	☐	Explosive	☐	☐	Oxidizer	☐	☐	Reactive Cyanide ___ ppm
☐	☐	Shock Sensitive	☐	☐	Water Reactive	☐	☐	Reactive Sulfide ___ ppm
☐	☐	Pyrophoric	☐	☐	Air Reactive	☐	☐	Polymerizable
☐	☐	Other Incompatibles; Describe						

F. MATERIAL PHYSICAL CHARACTERISTICS @ 70° F.

# of Phases: N/A	Color: Varies	Flash Point: ___ °F (if < 73 °F)		pH ☐ Liquids > 20% H_2O or pH ☒ Non-Aqueous	
Liquid %: 60-80	Specific Gravity: 10-12	☒ 73 - <100°F	☐ 101 - 141°F	☐ ≤ 2 pH	☐ > 2 - 4 pH
Sludge %: 20-30	Viscosity cps:	☐ 142°F - <200°F	☐ ≥200°F	☐ > 4 - 10 pH	
Solid %: 10-20	Density: 10-12	Boiling Point (if < 130°F):		☐ > 10 - < 12.5 pH	☐ ≥ 12.5 pH
Powder %:	☒ lbs./ gal. ☐ lbs./ cu. ft.	Ash % (Bridgeport Only):		BTU's / lb. or Range: ~10,000	
Gas %:	Comments:				

G. GENERATOR PROFILE CERTIFICATION

I hereby certify that I am an authorized agent of the generator, and warrant on behalf of the generator that the information supplied on this form and on any attachments or supplements hereto is complete and accurate, and that all known or suspected hazards of the material(s) described herein have been disclosed. I agree that if the sample test results indicate a discrepancy with any information supplied on this form, that either Safety-Kleen or the generator may initiate further testing and evaluation in accordance with the terms and conditions of the contract between Safety-Kleen and the generator and that this profile certification may be amended accordingly.

Peter R. Lurko — Peter R. Lurko D.P.W. — 1/26/00
Generator's Authorized Signature — Name & Title (Printed or Typed) — Date

Comments:

Safety-Kleen Use Only ☐ SKOS ☐ SKVS ☐ Non-haz Evaluation ☐ Standard Industry Profile: SIP Index #:
SK Sales Rep. Name: Rep.#: Territory/Branch #:
Process Approval #: Product Code or Part #: TRI Flowpath #: Pricing:

Waste Approval & Certification
I certify acceptability of this waste stream and that all appropriate permits have been obtained, as indicated by Safety-Kleen's facility approval below:

Safety-Kleen's Authorized Facility Signature — Name & Title (Printed or Typed) — Date

© 1999 All Rights Reserved Safety-Kleen Corp.

GENERATOR

2206389

safety-kleen

MATERIAL PROFILE

Safety-Kleen USA Use Only	If applicable, Intercompany Billing Facility #	Customer Number:	SK Line Of Business #:	Facility Profile #:

A. GENERATOR INFORMATION

☐ Check if Billing Information is same as Generator Information

Generator Name: Town of East Haddam
Facility Address (No P.O. Box): 7 Main St
City/State/Zip: E. Haddam, CT 06423
Technical Contact: P. Linko
Phone: 860 873 5030 Fax:
Generator Location (If different from Facility Address): same
SIC Code: ☐ CESQG ☐ SQG US EPA ID #: CTP0000 State Generating ID #:

Billing Company: Environmental Services Inc
Billing Address: 60 Rockfield St
City/State/Zip: South Windsor CT
Billing Contact:
Phone: Fax:

B. SHIPPING INFORMATION

☐ DOT Assistance Requested ☐ Check if SK Transportation Services are requested

US DOT Proper Shipping Name: Waste Paint Waste Related material
Hazard Class / Division #: 3 ID # (UN/NA): 1263 Packing Group (PG): II RQ:

Non-Bulk Shipping Containers

Size		Steel	Poly	Fiber	Quantity	Frequency
55	Gal	☒	☐	☐	2	1 X
20	Gal	☒	☐	☐	1	1 X
___	Gal	☐	☐	☐		
___	Gal	☐	☐	☐		

Bulk Shipping Containers

Container Type	Quantity & Size	Frequency
☐ Yd.³ Box or ☐ Super Sack		
☐ Hard Top or ☐ Tarped Bin		
☐ End Dump (Tarped) Trailer		
☐ Tank or ☐ Vacuum Trailer		

C. GENERAL MATERIAL & REGULATORY INFORMATION

Name of Material: Paint Waste
Process Generating The Material: paint cleaning liquids
Odor: ☐ None ☒ Mild ☐ Strong; Describe: Solvent

Yes	No		Yes	No	
☐	☒	Regulated or Licensed Radioactive Waste	☐	☒	Meets LDR Standards or ☐ Partially Meets (For Landfill Only)
☐	☐	Regulated Medical / Infectious Waste	☐	☐	Commingled Waste (Two or more hazardous wastes mixed as one)
☐	☐	Waste Subject To Benzene NESHAP Regulations	☐	☐	Sorbent Added; If Yes, is sorbent biodegradable? ☐ Yes ☐ No
☐	☐	TSCA Regulated PCB Waste (List any PCB level in Sec.D)	☐	☐	Exempt Waste; If Yes, list reference 40 CFR
☐	☐	Regulated Subpart CC Waste (VOs ≥ 500 ppm)	☐	☒	State Hazardous Waste; State Code
☐	☐	Regulated Ozone Depleting Substance	☒	☐	EPA Hazardous Waste
☐	☐	CERCLA Regulated (Superfund) Waste			
☐	☒	Hazardous Debris (Subject to alternative LDR treatment standards)			
☐	☐	Waste Contains UHCs/Constituents of Concern			
		If Yes, list in ☐ Sec. D or ☐ Constituent Addendum			

EPA Waste Codes (including any LDR subcategories, e.g., D003 Water Reactive): D001, F003, F005

EPA Haz Waste Only Origin Code: ☐1 ☐2 ☐3 ☐4 ☐5 Source Code: A____ Form Code: B____ System Code: M____

D. MATERIAL COMPOSITION

1. Chemical / Physical Constituents: List all detectable components by chemical name, including physical material, e.g., sorbent, debris.

Chemical Constituents & Composition	ppm	% ☐ vol %	Chemical Constituents & Composition	ppm	% ☐ vol %
Water		60-90%	Toluene		1-5
Paint Pigment			Latex		5-10
Titanium Dioxide		1-5	Alkyd Resins		5-10
Calcium carbonate		1-5	Acrylic Resins		5-10
Mineral spirits		5-10			
Methyl Ethyl Ketone		1-5			
Acetone		1-5			

Section. D continues on the next page for Elemental Constituents ☞ Range Total ≥ 100%

2206389

Note: Completion of Sections D.2 & F is optional for: ☐ Analytical Profile (representative sample submitted; test results used to complete D.2 & F)
Completion of Sections D.2, E & F is optional for: ☐ Standard Industry Profile (Safety-Kleen Corp. historical data utilized to complete D.2, E, & F)

D. MATERIAL COMPOSITION (Continued)

2. Elemental Constituents ☒ Check if this waste contains No Detectable Elements / Metals, unless listed below.

Check either: ☐ Total Analysis or ☐ TCLP Method or ☒ Generator Knowledge, then enter data below.

Constituent	ppm	Constituent	ppm	Constituent	ppm	Constituent	ppm	Constituent	ppm
Aluminum		Cadmium		Fluorine		Nickel		Sodium	
Antimony		Chlorine		Lead		Phosphorous		Sulfur	
Arsenic		Chromium		Lithium		Potassium		Thallium	
Barium		Cobalt		Manganese		Selenium		Titanium	
Beryllium		Copper		Mercury		Silicon		Vanadium	
Bromine		Iodine		Molybdenum		Silver		Zinc	

E. REACTIVE CHARACTERISTICS

☒ Check if this waste exhibits No Reactive Characteristics

Yes	No		Yes	No		Yes	No	
☐	☐	Explosive	☐	☐	Oxidizer	☐	☐	Reactive Cyanide ____ ppm
☐	☐	Shock Sensitive	☐	☐	Water Reactive	☐	☐	Reactive Sulfide ____ ppm
☐	☐	Pyrophoric	☐	☐	Air Reactive	☐	☐	Polymerizable
☐	☐	Other Incompatibles; Describe						

F. MATERIAL PHYSICAL CHARACTERISTICS @ 70° F.

# of Phases	2	Color	Brown/Tan	Flash Point ____ °F (if < 73 °F)	pH ☐ Liquids > 20% H_2O or pH ☐ Non-Aqueous
Liquid %	> 75	Specific Gravity	0.90-1.05	☒ 73 - <100°F ☐ 100 - 141°F	☐ ≤ 2 pH ☐ > 2 - 4 pH ☒ > 4 - 10 pH
Sludge %	< 5	Viscosity cps		☐ 142°F - <200°F ☐ ≥200°F	☐ > 10 - < 12.5 pH ☐ ≥ 12.5 pH
Solid %		Density	7.7-8.3	Boiling Point (if < 130°F)	BTU's / lb or Range 5,000 - 10,000
Powder %		☒ lbs./gal. ☐ lbs./ cu. ft.		Ash % (Bridgeport Only)	
Gas %		Comments	Some are emulsified		

G. GENERATOR PROFILE CERTIFICATION

I hereby certify that I am an authorized agent of the generator, and warrant on behalf of the generator that the information supplied on this form and on any attachments or supplements hereto is complete and accurate, and that all known or suspected hazards of the material(s) described herein have been disclosed. I agree that if the sample test results indicate a discrepancy with any information supplied on this form, that either Safety-Kleen or the generator may initiate further testing and evaluation in accordance with the terms and conditions of the contract between Safety-Kleen and the generator and that this profile certification may be amended accordingly.

Peter R. Linko — Peter R Linko DRW — 1/26/00
Generator's Authorized Signature — Name & Title (Printed or Typed) — Date

Comments

Safety-Kleen Use Only ☐ SKOS ☐ SKVS ☐ Non-haz Evaluation ☐ Standard Industry Profile: SIP Index #

SK Sales Rep. Name: Rep.#: Territory/Branch #:
Process Approval #: Product Code or Part #: TRI Flowpath #: Pricing:

Waste Approval & Certification

I certify acceptability of this waste stream and that all appropriate permits have been obtained, as indicated by Safety-Kleen's facility approval below:

Safety-Kleen's Authorized Facility Signature — Name & Title (Printed or Typed) — Date

© 1999 All Rights Reserved. Safety-Kleen Corp.

EPHM-2 REV. 5/97

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Hazardous Waste MANIFEST PROGRAM
79 Elm St., Hartford, CT 06106-5127

FOR STATE USE ONLY

Please type (or print) *(Form designed for use on elite (12-pitch) typewriter)*

FOR SPILLS WITHIN CONNECTICUT, CONTACT CT DEP - OIL AND CHEMICAL SPILL RESPONSE AT (203) 566-3338
IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CTP000023360 — Manifest Document No. 87783
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but may be required by State law

3. Generator's Name and Mailing Address
TOWN OF EAST HADDAM
7 MAIN ST
EAST HADDAM, CT 06423
4. Generator's Phone (860 873-5020

A. State Manifest Document Number: CT F 0887783
B. G.S.I. (Gen. Site Address): SAME

5. Transporter 1 Company Name: Environmental Services, Inc.
6. US EPA ID Number: CTD018611802
C. S.T.I. (Trans. Lic. Plate #): CT91-A
D. Tran. Phone (860 528-9500

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. S.T.I. (Trans. Lic. Plate #):
F. Tran. Phone ( )

9. Designated Facility Name and Site Address
SAFETY-KLEEN (N.E.), INC.
300 CANAL ST
LAWRENCE, MA 01840
10. US EPA ID Number: MAD000604447
G. State Facility's ID (Not Required):
H. Facility's Phone (978) 683-1002

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Waste Flammable Liquids, Toxic, N.O.S., (Xylenes, Pentachlorophenol) (F027), 3, UN 1992, PG II	001	DF	00050	P	EPA D001, F027, D037 STATE None
b. Waste Corrosive Liquid, Basic, Inorganic (Ammonium Hydroxide, Sodium Silicate), 8, UN3262, PG III	001	DF	00050	P	EPA D002 STATE NONE
c. Waste Corrosive Liquid, acidic, Inorganic, (Aluminum Chloride Solution), 8, UN3264, PG III	001	DF	00050	P	EPA D002 STATE None
d.					EPA STATE

J. Additional Descriptions for Materials Listed Above
a. LAB PACK 112569-01
b. LAB PACK 112569-02
c. LAB PACK 112569-03
d.

K. Handling Codes for Wastes Listed Above
a. Interim S01 Final
b. Interim S01 Final
c. Interim S01 Final
d. Interim Final

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY CONTACT (978) 683-1002 // ESI PROJECT # 200078
11a ERG# 131
11b ERG# 123
11c ERG# 126
Point of Departure: see Attached packing list

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and all applicable State laws and regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Peter R. Linko
Signature: Peter R. Linko
Month Day Year: 01 26 00

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mike Garcia
Signature: Mike Garcia
Month Day Year: 01 26 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Dimaris Vanguesand
Signature: Dimaris Vanguesand
Month Day Year: 01 27 00

EPA Form 8700-22 (Rev. 9/91) Form Approved OMB No 2050-0039

COPY 3: FACILITY TO GENERATOR

Laidlaw Environmental Services (North East), Inc.

LAB PACK CONTAINER CONTENTS

East Haldn

CONTAINER NO.: -01

SHIPPING NAME: RQ Waste Flammable Liquids, Toxic n.o.s (Xylenes, Pentachlorophenol) (F027)

ADD'L DESC:

HAZARD CLASS: 3 | PHYSICAL STATE: S | PACKING GROUP: II

PRIMARY LABEL: Flam | SUBSIDIARY LABEL: Toxic

UN/NA NO.: 1992

LOC CODE:

LANDBAN: (Y) N V

NON REG: Y (N)

HAZ: (Y) N | WASTE WATER: Y (N) | CAT: 2a/6

SUB CAT:

TREATMENT STANDARDS:

D001 F027 D037

LEGEND:

DATE: 1/21/00

ROUTING:

TYPE/SIZE 16 DF | GP: D

LES APP:

DISP APP:

BILLING CODE:

PRICING CODE:

SOURCE CODE: A 58 /A

FORM CODE: B 003

NY TREAT CODE:

Line No.	MATERIAL DESCRIPTION	Odor Problem	Cont. Type	Phy St	Material Quantity	EPA Waste Code #
01	2,4-Bis(Isopropylamino)6-methoxy-5-Triazine 3.12%	N	M	L	5 gal	D001, F027, D03
02	Pentachlorophenol 1.12%					
03	Aromatic Solvents Balance					
04	Inert distillates					
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

CHEMIST: R. Ue

Laidlaw Environmental Services (North East), Inc.

LAB PACK CONTAINER CONTENTS

East Haddam

CONTAINER NO.: -02

SHIPPING NAME: Waste Corrosive Liquid, ~~Acidic~~, Basic, Inorganic

ADD'L DESC: (Ammonium Hydroxide, Sodium Silicate)

DATE: 1/21/00

HAZARD CLASS: 8 | PHYSICAL STATE: S | PACKING GROUP: II

ROUTING: LES

PRIMARY LABEL: Corrosive | SUBSIDIARY LABEL:

TYPE/SIZE 16 DF | GP: B

UN/NA NO.: 3262

LOC CODE:

D002

LES APP:

DISP APP:

LANDBAN: (Y) N V

BILLING CODE:

NON REG: Y (N) | HAZ: (Y) N | WASTE WATER: Y (N) | CAT: 2a/6

PRICING CODE:

SUB CAT: | LEGEND:

SOURCE CODE: A 58 /A

TREATMENT STANDARDS:

FORM CODE: B 003

NY TREAT CODE:

Line No.	MATERIAL DESCRIPTION	Odor Problem	Cont. Type	Phy St	Material Quantity	EPA Waste Code #
01	Ammonium Hydroxide	Y	P	L	3 x 1 gal	D002
02	Sodium Silicate solution	N	G	L	9 x 250 ml	D002
03	Sodium Carbonate	N	P	S	10 lbs	CROSMAFG
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

CHEMIST: [signature]

Laidlaw Environmental Services (North East), Inc.

LAB PACK CONTAINER CONTENTS

East Haddam

CONTAINER NO.: -03

SHIPPING NAME: Waste corrosive liquid, acidic, inorganic

ADD'L DESC: (Aluminum chloride solution)

HAZARD CLASS: 8 | PHYSICAL STATE: S | PACKING GROUP: III

PRIMARY LABEL: Corrosive | SUBSIDIARY LABEL:

UN/NA NO.: 3264

LOC CODE:

LANDBAN: (Y) N V

NON REG: Y (N) | HAZ: (Y) N | WASTE WATER: (Y) N | CAT: 2a/6

SUB CAT: | LEGEND:

TREATMENT STANDARDS: D002

DATE: 1/21/00

ROUTING: LES

TYPE/SIZE 16DF | GP:

LES APP:

DISP APP:

BILLING CODE:

PRICING CODE:

SOURCE CODE: A 58 /A

FORM CODE: B 007

NY TREAT CODE:

Line No.	MATERIAL DESCRIPTION	Odor Problem	Cont. Type	Phy St	Material Quantity	EPA Waste Code #
01	Aluminum chloride sol'n	N	G	L	10 x 250ml	D002
02	Sodium chloride	N	P	S	25 lb	MM99, C101
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

CHEMIST: JRM

safety-kleen.

FORM A

Page: 1

Customer Notification And Certification

Generator Name/Location: Town of East Haddam 7 main ST E. Haddam CT 06423

EPA I.D. Number: CTP0000023

Waste Profile or ARF Designation:

Manifest Number: CTF0887783

EPA Waste Number(s): D001, F027, B037, D002

Waste Analysis Information: ***Attached or On file at receiving facility***

[ ] UNRESTRICTED WASTE NOTIFICATION (Category 1)
I notify that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste is not restricted as specified in 40 CFR 268, Subpart D or any applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d).

[✓] RESTRICTED WASTE NOTIFICATION (Category 2a)
I notify that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste is subject to the treatment standards specified in 40 CFR 268 Subpart D. The waste; (a) must be treated to the appropriate regulatory treatment standard by the appropriate regulatory treatment method; (b) qualifies for a variance as described in Category 3 below; or meets some or all of the standards as described in Category 4 below.

[✓] LAB PACK CERTIFICATION (Category 6)
I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes which have not been excluded under appendix IV to 40 CFR part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

SIGNATURE: _____ DATE: 1-26-00

PRINT NAME: _____ TITLE: _____

Revised 2/99

safety-kleen.

FORM B *(Must be accompanied by Form A)*

Generator Name/Location: Town of East Haddam 7 main St E. Haddam, CT 06423

EPA I.D. Number: CTP000023 Manifest: CTF0887783 Page: 2

Waste Profile or ARF	Category No.	EPA or STATE Waste Code	Variance Date	Treatability Group (WW or NWW)	Description/Sub Category/Waste Constituents (where required)
-01	29/6	D001 F027 D037		NWW	Ignitable Characteristic Waste High TOC Pentachlorophenol TC for pentachlorophenol
-02	29/6	D002		NWW	Corrosive characteristic waste
-03	29/6	D002		NWW	corrosive characteristic waste

Revised 2/99

CUSTOMER COPY

EPHM-2 REV. 5/97

STATE OF CONNECTICUT

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Hazardous Waste MANIFEST PROGRAM
79 Elm St., Hartford, CT 06106-5127

FOR STATE USE ONLY

Please type (or print) *(Form designed for use on elite (12-pitch) typewriter.)*

IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802. FOR SPILLS WITHIN CONNECTICUT, CONTACT CT DEP - OIL AND CHEMICAL SPILL RESPONSE AT 1-860-566-3338

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CTP.0.0.0.2.3.3.6.0 — Manifest Document No. 19778 RV — 2 Page 1 of 1 — Information in the shaded areas is not required by Federal law but may be required by State law

A. State Manifest Document Number: CT F 0887785

3. Generator's Name and Mailing Address
TOWN OF EAST HADDAM
7 MAIN ST
EAST HADDAM, CT 06423

4. Generator's Phone (860 873-5020

B. G.S.I. (Gen. Site Address): SAME

5. Transporter 1 Company Name: Environmental Services, Inc. — 6. US EPA ID Number: C T D 0 1 8 8 1 1 8 0 2

C. S.T.I. (Trans. Lic. Plate #): CT 814

7. Transporter 2 Company Name — 8. US EPA ID Number

D. Tran. Phone (860 528-9500

9. Designated Facility Name and Site Address
SAFETY-KLEEN (N.E.), INC.
300 CANAL ST
LAWRENCE, MA 01840

10. US EPA ID Number: M A D 0 0 0 6 0 4 4 4 7

E. S.T.I. (Trans. Lic. Plate #)

F. Tran. Phone ( )

G. State Facility's ID (Not Required)

H. Facility's Phone (978) 683-1002

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. State Regulated Oil Waste None, None, None	001	DM	00055	G	EPA None STATE MA01, CR02
b. State Regulated Oil Waste None, None, None	001	DM	00055	G	EPA None STATE MA01, CR02
c. Non Regulated Material None, None, None	001	DF	00030	G	EPA None STATE MA99, CR04
d. Non Regulated Material None None None	002	DM	00050	G	EPA None STATE MA99, CR04

J. Additional Descriptions for Materials Listed Above
a. 2206399 — c. 2206390
b. 2206485 — d. 2206390

K. Handling Codes for Wastes Listed Above

	Interim	Final	Interim	Final
a	S01		S01	
b	S01		d. S01	

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY CONTACT (978) 683-1002 // ESI PROJECT # 206078

Point of Departure:

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and all applicable State laws and regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Peter R. Linko — Signature: Peter R. Linko — Month Day Year: 01 26 00

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mike Ciarcia — Signature — Month Day Year: 01 26 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Dimaris Ramgesaut — Signature: Dimaris Ramgesaut — Month Day Year: 01 27 00

EPA Form 8700-22 (Rev. 9/91) Form Approved OMB No. 2050-0039

COPY 3: FACILITY TO GENERATOR

safety-kleen

2206390

MATERIAL PROFILE

Safety-Kleen (SK) Use Only	If applicable, Intercompany Billing Facility #	Customer Number:	SK Line Of Business #:	Facility Profile #:

A. GENERATOR INFORMATION

☐ Check if Billing Information is same as Generator Information

Generator Name: Town of East Haddam — Billing Company: Environmental Services Inc

Facility Address (No P.O. Box): 7 Main St — Billing Address: 60 Brookfield St

City/State/Zip: E. Haddam CT 06423 — City/State/Zip: S. Windsor, CT

Technical Contact: P Lurka — Billing Contact:

Phone: 860 873 5020 Fax: — Phone: Fax:

Generator Location (If different from Facility Address):

SIC Code: ☐ CESQG ☐ SQG US EPA ID # CTP000023360 State Generating ID #:

B. SHIPPING INFORMATION

☐ DOT Assistance Requested ☐ Check if SK Transportation Services are requested

US DOT Proper Shipping Name: Non Regulated Material

Hazard Class / Division # None ID # (UN/NA) None Packing Group (PG) None

Non-Bulk Shipping Containers						Bulk Shipping Containers		
Size	Steel	Poly	Fiber	Quantity	Frequency	Container Type	Quantity & Size	Frequency
30 Gal	☑	☑	☐	1 each	1 x	☐ Yd.³ Box or ☐ Super Sack		
20 Gal	☑	☐	☐	1	1 x	☐ Hard Top or ☐ Tarped Bin		
Gal	☐	☐	☐			☐ End Dump (Tarped) Trailer		
Gal	☐	☐	☐			☐ Tank or ☐ Vacuum Trailer		

C. GENERAL MATERIAL & REGULATORY INFORMATION

Name of Material: Detergent Liquid

Process Generating The Material: unused product

Odor: ☐ None ☑ Mild ☐ Strong; Describe: sweet detergent

Yes	No		Yes	No	
☐	☑	Regulated or Licensed Radioactive Waste	☐	☑	Meets LDR Standards or ☐ Partially Meets (For Landfill Only)
☐	☑	Regulated Medical / Infectious Waste	☐	☑	Commingled Waste (Two or more hazardous wastes listed as one)
☐	☑	Waste Subject To Benzene NESHAP Regulations	☐	☑	Sorbent Added: If Yes, is sorbent biodegradable? ☐ Yes ☐ No
☐	☑	TSCA Regulated PCB Waste (List any PCB level in Sec.D)	☐	☑	Exempt Waste: If Yes, list reference 40 CFR
☐	☑	Regulated Subpart CC Waste (VOs ≥ 500 ppm)	☑	☐	State Hazardous Waste: State Code MASS, CROW
☐	☑	Regulated Ozone Depleting Substance	☐	☑	EPA Hazardous Waste
☐	☑	CERCLA Regulated (Superfund) Waste			EPA Waste Codes (including any LDR subcategories, e.g., D001 Water Reactive):
☐	☑	Hazardous Debris (Subject to alternative LDR treatment standards)			
☐	☑	Waste Contains UHCs/Constituents of Concern			
		If Yes, list in ☐ Sec. D or ☐ Constituent Addendum			

EPA Haz Waste Only — Origin Code: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 — Source Code: A _____ Form Code: B _____ System Code: M _____

D. MATERIAL COMPOSITION

1. Chemical / Physical Constituents: List all detectable components by chemical name, including physical material, e.g., sorbent, debris.

Chemical Constituents & Composition	ppm	☐ wt% ☐ vol%	Chemical Constituents & Composition	ppm	☐ wt% ☐ vol%
Water		80-97			
Trisodium phosphate		0-3			
Sodium Lauryl Sulfate		0-3			

Section. D continues on the next page for Elemental Constituents ☛

Range Total ≥ 100%

2206390

Note: Completion of Sections D.2 & F is optional for: ☐ Analytical Profile (representative sample submitted; test results used to complete D.2 & F)

Completion of Sections D.2, E & F is optional for: ☐ Standard Industry Profile (Safety-Kleen Corp. historical data utilized to complete D.2, E, & F)

D. MATERIAL COMPOSITION (Continued)

2. Elemental Constituents ☑ Check if this waste contains No Detectable Elements / Metals, unless listed below.

Check either: ☐ Total Analysis or ☐ TCLP Method or ☑ Generator Knowledge, then enter data below.

Constituent	ppm	Constituent	ppm	Constituent	ppm	Constituent	ppm	Constituent	ppm
Aluminum		Cadmium		Fluorine		Nickel		Sodium	
Antimony		Chlorine		Lead		Phosphorous	< 10,000	Sulfur	< 10,000
Arsenic		Chromium		Lithium		Potassium		Thallium	
Barium		Cobalt		Manganese		Selenium		Titanium	
Beryllium		Copper		Mercury		Silicon		Vanadium	
Bromine		Iodine		Molybdenum		Silver		Zinc	

E. REACTIVE CHARACTERISTICS

☑ Check if this waste exhibits No Reactive Characteristics

Yes	No		Yes	No		Yes	No	
☐	☐	Explosive	☐	☐	Oxidizer	☐	☐	Reactive Cyanide _____ ppm
☐	☐	Shock Sensitive	☐	☐	Water Reactive	☐	☐	Reactive Sulfide _____ ppm
☐	☐	Pyrophoric	☐	☐	Air Reactive	☐	☐	Polymerizable
☐	☐	Other Incompatibles; Describe						

F. MATERIAL PHYSICAL CHARACTERISTICS @ 70° F.

# of Phases: 1	Color: clear yellow/green	Flash Point: _____ °F (if < 73 °F)	pH ☐ Liquids > 20% H_2O or	pH ☐ Non-Aqueous
Liquid %: >99	Specific Gravity: 1.0-1.05	☐ 73 - <100°F ☐ 100 - 141°F	☐ ≤ 2 pH ☐ > 2 - 4 pH	☑ > 4 - 10 pH
Sludge %: <1	Viscosity cps:	☐ 142°F - <200° F ☑ ≥200° F	☐ > 10 - < 12.5 pH ☐ ≥ 12.5 pH	
Solid %:	Density: 6.3-8.5 lbs./ gal. lbs./ cu. ft.	Boiling Point (if < 130°F):	BTU's / lb or Range: < 500	
Powder %:		Ash % (Bridgeport Only)		
Gas %:	Comments:			

G. GENERATOR PROFILE CERTIFICATION

I hereby certify that I am an authorized agent of the generator, and warrant on behalf of the generator that the information supplied on this form and on any attachments or supplements hereto is complete and accurate, and that all known or suspected hazards of the material(s) described herein have been disclosed. I agree that if the sample test results indicate a discrepancy with any information supplied on this form, that either Safety-Kleen or the generator may initiate further testing and evaluation in accordance with the terms and conditions of the contract between Safety-Kleen and the generator and that this profile certification may be amended accordingly.

Peter R. Linka — Peter R. Linka DPW — 1 / 24 / 00

Generator's Authorized Signature — Name & Title (Printed or Typed) — Date

Comments

Safety-Kleen Use Only ☐ SKOS ☐ SKVS ☐ Non-haz Evaluation ☐ Standard Industry Profile: SIP Index # _____

SK Sales Rep. Name _____ Rep # _____ Territory/Branch # _____

Process Approval # _____ Product Code or Part # _____ TRI Flowpath # _____ Pricing _____

Waste Approval & Certification

I certify acceptability of this waste stream and that all appropriate permits have been obtained, as indicated by Safety-Kleen's facility approval below:

Safety-Kleen's Authorized Facility Signature — Name & Title (Printed or Typed) — Date

© 1999 All Rights Reserved Safety-Kleen Corp.

2206399

safety-kleen

MATERIAL PROFILE

Safety-Kleen (SK) Use Only	If applicable, Intercompany Billing Facility #	Customer Number:	SK Line Of Business #:	Facility Profile #:

A. GENERATOR INFORMATION

☐ Check if Billing Information is same as Generator Information

Generator Name: Town of East Haddam | Billing Company: Ell V. Services Inc

Facility Address (No P.O. Box): 7 Main St | Billing Address: 90 Brookfield St

City/State/Zip: East Haddam, CT 06423 | City/State/Zip: S. Windsor, CT

Technical Contact: P. Lucko | Billing Contact:

Phone: | Fax: | Phone: | Fax:

Generator Location (If different from Facility Address):

SIC Code: | ☐ CESQG ☐ SQG US EPA ID #: CTR000023560 | State Generating ID #:

B. SHIPPING INFORMATION

☐ DOT Assistance Requested ☐ Check if SK Transportation Services are requested

US DOT Proper Shipping Name: State Regulated Oil waste

Hazard Class / Division #: None | ID # (UN/NA): none | Packing Group (PG): none

Non-Bulk Shipping Containers

Size		Steel	Poly	Fiber	Quantity	Frequency
55	Gal	☒	☐	☐	1 DM	1 X
	Gal	☐	☐	☐		
	Gal	☐	☐	☐		
	Gal	☐	☐	☐		

Bulk Shipping Containers

Container Type	Quantity & Size	Frequency
☐ Yd.³ Box or ☐ Super Sack		
☐ Hard Top or ☐ Tarped Bin		
☐ End Dump (Tarped) Trailer		
☐ Tank or ☐ Vacuum Trailer		

C. GENERAL MATERIAL & REGULATORY INFORMATION

Name of Material: Waste Oil

Process Generating The Material: motor vehical maitenance

Odor: ☐ None ☒ Mild ☐ Strong; Describe: oil

Yes	No		Yes	No	
☐	☒	Regulated or Licensed Radioactive Waste	☐	☒	Meets LDR Standards or ☐ Partially Meets (For Landfill Only)
☐	☒	Regulated Medical / Infectious Waste	☐	☒	Commingled Waste (Two or more hazardous wastes mixed as one)
☐	☒	Waste Subject To Benzene NESHAP Regulations	☐	☒	Sorbent Added; If Yes, is sorbent biodegradable? ☐ Yes ☐ No
☐	☒	TSCA Regulated PCB Waste (List any PCB level in Sec.D)	☐	☒	Exempt Waste; If Yes, list reference 40 CFR
☐	☒	Regulated Subpart CC Waste (VOs ≥ 500 ppm)	☒	☐	State Hazardous Waste; State Code MA01, CH02
☐	☒	Regulated Ozone Depleting Substance	☐	☒	EPA Hazardous Waste
☐	☒	CERCLA Regulated (Superfund) Waste	EPA Waste Codes (including any LDR subcategories, e.g., D003 Water Reactive):		
☐	☒	Hazardous Debris (Subject to alternative LDR treatment standards)			
☐	☒	Waste Contains UHCs/Constituents of Concern			
		If Yes, list in ☐ Sec. D or ☐ Constituent Addendum			

EPA Haz Waste Only Origin Code: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 Source Code: A ____ Form Code: B ____ System Code: M ____

D. MATERIAL COMPOSITION

1. Chemical / Physical Constituents: List all detectable components by chemical name, including physical material, e.g., sorbent, debris.

Chemical Constituents & Composition	ppm	☒ wt % ☐ vol %	Chemical Constituents & Composition	ppm	☐ wt % ☐ vol %
Water		20-70			
Ethylene Glycol		20-30			
Oil		50-60			

Section. D continues on the next page for Elemental Constituents ⇒

Range Total ≥ 100%

2206399

Note: Completion of Sections D.2 & F is optional for: ☐ Analytical Profile (representative sample submitted; test results used to complete D.2 & F)

Completion of Sections D.2, E & F is optional for: ☐ Standard Industry Profile (Safety-Kleen Corp. historical data utilized to complete D.2, E, & F)

D. MATERIAL COMPOSITION (Continued)

2. Elemental Constituents ☒ Check if this waste contains No Detectable Elements / Metals, unless listed below.

Check either: ☐ Total Analysis or ☐ TCLP Method or ☐ Generator Knowledge, then enter data below.

Constituent	ppm	Constituent	ppm	Constituent	ppm	Constituent	ppm	Constituent	ppm
Aluminum		Cadmium		Fluorine		Nickel		Sodium	
Antimony		Chlorine		Lead		Phosphorous		Sulfur	
Arsenic		Chromium		Lithium		Potassium		Thallium	
Barium		Cobalt		Manganese		Selenium		Titanium	
Beryllium		Copper		Mercury		Silicon		Vanadium	
Bromine		Iodine		Molybdenum		Silver		Zinc	

E. REACTIVE CHARACTERISTICS

☒ Check if this waste exhibits No Reactive Characteristics

Yes	No		Yes	No		Yes	No	
☐	☐	Explosive	☐	☐	Oxidizer	☐	☐	Reactive Cyanide ____ ppm
☐	☐	Shock Sensitive	☐	☐	Water Reactive	☐	☐	Reactive Sulfide ____ ppm
☐	☐	Pyrophoric	☐	☐	Air Reactive	☐	☐	Polymerizable
☐	☐	Other Incompatibles: Describe						

F. MATERIAL PHYSICAL CHARACTERISTICS @ 70° F.

# of Phases: 2	Color: Brown/Green	Flash Point: ____ °F (if < 73 °F)	pH ☐ Liquids > 20% H_2O or	pH ☐ Non-Aqueous
Liquid %: >99	Specific Gravity: .90-.92	☐ 73 - <100°F ☐ 100 - 141°F	☐ ≤ 2 pH ☐ > 2 - 4 pH	☒ 4 - 10 pH
Sludge %: <1	Viscosity cps:	☐ 142°F - <200°F ☒ ≥200°F	☐ > 10 - < 12.5 pH	☐ ≥ 12.5 pH
Solid %:	Density: 8.5	Boiling Point (if < 130°F):	BTU's / lb or Range: ~ 5000	
Powder %:	☒ lbs. / gal. ☐ lbs. / cu. ft.	Ash % (Bridgeport Only):		
Gas %:	Comments:			

G. GENERATOR PROFILE CERTIFICATION

I hereby certify that I am an authorized agent of the generator, and warrant on behalf of the generator that the information supplied on this form and on any attachments or supplements hereto is complete and accurate, and that all known or suspected hazards of the material(s) described herein have been disclosed. I agree that if the sample test results indicate a discrepancy with any information supplied on this form, that either Safety-Kleen or the generator may initiate further testing and evaluation in accordance with the terms and conditions of the contract between Safety-Kleen and the generator and that this profile certification may be amended accordingly.

Peter R. Links | Peter R. Links DPW | 1 / 26 / 00

Generator's Authorized Signature | Name & Title (Printed or Typed) | Date

Comments

Safety-Kleen Use Only ☐ SKOS ☐ SKVS ☐ Non-haz Evaluation ☐ Standard Industry Profile: SIP Index #

SK Sales Rep. Name | Rep.# | Territory/Branch #

Process Approval # | Product Code or Part # | TRI Flowpath # | Pricing

Waste Approval & Certification

I certify acceptability of this waste stream and that all appropriate permits have been obtained, as indicated by Safety-Kleen's facility approval below.

Safety-Kleen's Authorized Facility Signature | Name & Title (Printed or Typed) | ___ / ___ / ___ Date

© 1999 All Rights Reserved Safety-Kleen Corp.

safety-kleen

2206485

MATERIAL PROFILE

Safety-Kleen USA Use Only	If applicable, Intercompany Billing Facility #	Customer Number:	SK Line Of Business #:	Facility Profile #:

A. GENERATOR INFORMATION

☐ Check if Billing Information is same as Generator Information

Generator Name: Town of East Haddam — Billing Company: Envi Services Inc

Facility Address (No P.O. Box): 7 Main St — Billing Address: 60 Brookfield St

City/State/Zip: E. Haddam CT 06423 — City/State/Zip: S. Windsor, CT

Technical Contact: P. Links — Billing Contact:

Phone: — Fax: — Phone: — Fax:

Generator Location (If different from Facility Address):

SIC Code: — ☐ CESQG ☐ SQG US EPA ID #: CTR000235760 State Generating ID #:

B. SHIPPING INFORMATION

☐ DOT Assistance Requested ☐ Check if SK Transportation Services are requested

US DOT Proper Shipping Name: State Regulated Oil Waste

Hazard Class / Division #: None ID # (UN/NA): none Packing Group (PG): None RQ:

Non-Bulk Shipping Containers						Bulk Shipping Containers		
Size	Steel	Poly	Fiber	Quantity	Frequency	Container Type	Quantity & Size	Frequency
55 Gal	☑	☐	☐	1 DM	1 X	☐ Yd.³ Box or ☐ Super Sack		
___ Gal	☐	☐	☐			☐ Hard Top or ☐ Tarped Bin		
___ Gal	☐	☐	☐			☐ End Dump (Tarped) Trailer		
___ Gal	☐	☐	☐			☐ Tank or ☐ Vacuum Trailer		

C. GENERAL MATERIAL & REGULATORY INFORMATION

Name of Material: #6 Oil

Process Generating The Material: Unused material

Odor: ☐ None ☐ Mild ☐ Strong; Describe:

Yes	No		Yes	No	
☐	☑	Regulated or Licensed Radioactive Waste	☐	☑	Meets LDR Standards or ☐ Partially Meets (For Landfill Only)
☐	☑	Regulated Medical / Infectious Waste	☐	☑	Commingled Waste (Two or more hazardous wastes mixed as one)
☐	☑	Waste Subject To Benzene NESHAP Regulations	☐	☑	Sorbent Added; If Yes, is sorbent biodegradable? ☐ Yes ☐ No
☐	☑	TSCA Regulated PCB Waste (List any PCB level in Sec.D)	☐	☑	Exempt Waste; If Yes, list reference 40 CFR
☐	☑	Regulated Subpart CC Waste (VOs ≥ 500 ppm)	☑	☐	State Hazardous Waste: State Code MA01, CT02
☐	☑	Regulated Ozone Depleting Substance	☐	☒	EPA Hazardous Waste
☐	☑	CERCLA Regulated (Superfund) Waste	EPA Waste Codes (including any LDR subcategories, e.g., D001 Water Reactive):		
☐	☑	Hazardous Debris (Subject to alternative LDR treatment standards)			
☐	☑	Waste Contains UHCs/Constituents of Concern			
		If Yes, list in ☐ Sec. D or ☐ Constituent Addendum			

EPA Haz Waste Only Origin Code: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 Source Code: A ____ Form Code: B ____ System Code: M ____

D. MATERIAL COMPOSITION

1. Chemical / Physical Constituents: List all detectable components by chemical name, including physical material, e.g., sorbent, debris.

Chemical Constituents & Composition	ppm	☐ wt % ☐ vol %	Chemical Constituents & Composition	ppm	☐ wt % ☐ vol %
#6 Fuel oil		100%			

Section. D continues on the next page for Elemental Constituents ☞

Range Total ≥ 100%

2206485

Note: Completion of Sections D.2 & F is optional for: ☐ Analytical Profile (representative sample submitted; test results used to complete D.2 & F)
Completion of Sections D.2 & E & F is optional for: ☐ Standard Industry Profile (Safety-Kleen Corp. historical data utilized to complete D.2, E, & F)

D. MATERIAL COMPOSITION (Continued)

2. Elemental Constituents ☑ Check if this waste contains No Detectable Elements / Metals, unless listed below.

Check either: ☐ Total Analysis or ☐ TCLP Method or ☑ Generator Knowledge, then enter data below

Constituent	ppm	Constituent	ppm	Constituent	ppm	Constituent	ppm	Constituent	ppm
Aluminum		Cadmium		Fluorine		Nickel		Sodium	
Antimony		Chlorine		Lead		Phosphorous		Sulfur	
Arsenic		Chromium		Lithium		Potassium		Thallium	
Barium		Cobalt		Manganese		Selenium		Titanium	
Beryllium		Copper		Mercury		Silicon		Vanadium	
Bromine		Iodine		Molybdenum		Silver		Zinc	

E. REACTIVE CHARACTERISTICS

☑ Check if this waste exhibits No Reactive Characteristics

Yes	No		Yes	No		Yes	No		
☐	☐	Explosive	☐	☐	Oxidizer	☐	☐	Reactive Cyanide	___ ppm
☐	☐	Shock Sensitive	☐	☐	Water Reactive	☐	☐	Reactive Sulfide	___ ppm
☐	☐	Pyrophoric	☐	☐	Air Reactive	☐	☐	Polymerizable	
☐	☐	Other Incompatibles; Describe							

F. MATERIAL PHYSICAL CHARACTERISTICS @ 70° F.

# of Phases: 1	Color: Brown	Flash Point: ___ °F (if < 73 °F)	pH ☐ Liquids > 20% H_2O or pH ☑ Non-Aqueous
Liquid %:	Specific Gravity: .9	☐ 73 - <100°F ☐ 100 - 141°F	☐ ≤ 2 pH ☐ > 2 - 4 pH ☐ > 4 - 10 pH
Sludge %: 100	Viscosity cps:	☐ 142°F - <200°F ☑ ≥200°F	☐ > 10 - < 12.5 pH ☐ ≥ 12.5 pH
Solid %:	Density: 5.0	Boiling Point (if < 130°F):	BTU's / lb. or Range: 18,000
Powder %:	☑ lbs./ gal. ☐ lbs./ cu. ft.	Ash % (Bridgeport Only):	
Gas %:	Comments:		

G. GENERATOR PROFILE CERTIFICATION

I hereby certify that I am an authorized agent of the generator, and warrant on behalf of the generator that the information supplied on this form and on any attachments or supplements hereto is complete and accurate, and that all known or suspected hazards of the material(s) described herein have been disclosed. I agree that if the sample test results indicate a discrepancy with any information supplied on this form, that either Safety-Kleen or the generator may initiate further testing and evaluation in accordance with the terms and conditions of the contract between Safety-Kleen and the generator and that this profile certification may be amended accordingly.

Peter R. Links — Generator's Authorized Signature

Peter R. Links DIW — Name & Title (Printed or Typed)

1 / 26 / 00 — Date

Comments

Safety-Kleen Use Only ☐ SKOS ☐ SKVS ☐ Non-haz Evaluation ☐ Standard Industry Profile: SIP Index #

SK Sales Rep. Name: — Rep #: — Territory/Branch #:

Process Approval #: — Product Code or Part #: — TRI Flowpath #: — Pricing:

Waste Approval & Certification

I certify acceptability of this waste stream and that all appropriate permits have been obtained, as indicated by Safety-Kleen's facility approval below:

Safety-Kleen's Authorized Facility Signature — Name & Title (Printed or Typed) — ___ / ___ / ___ Date

© 1999 All Rights Reserved Safety-Kleen Corp.

LAIDLAW ENVIRONMENTAL SERVICES

FORM A

Customer Notification And Certification

Generator Name/Location: Town of East Haddam, East Haddam CT

EPA I.D. Number: CTP0000

Waste Profile or ARF Designation: 2206399 2206485 2206390

Manifest Number: CTF0837785

EPA Waste Number(s): MA01, MA59, CR02, CR04

Waste Analysis Information: ***Attached or On file at receiving facility***

(X) UNRESTRICTED WASTE NOTIFICATION (Category 1)
I notify that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste is not restricted as specified in 40 CFR 268, Subpart D or any applicable prohibitions set for in 40 CFR 268.32 or RCRA Section 3004 (d).

( ) RESTRICTED WASTE NOTIFICATION (Category 2a)
I notify that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste is subject to the treatment standards specified in 40 CFR 268 Subpart D. The waste; (a) must be treated to the appropriate regulatory treatment standard by the appropriate regulatory treatment method; (b) qualifies for a variance as described in Category 3 below; or (c) meets some or all of the standards as described in Category 4 below.

( ) LAB PACK CERTIFICATION (Category 6)
I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only wastes which have not been excluded under appendix IV to 40 CFR part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

( ) The waste associated with this manifest shipment is disposal restricted in the state of New York and is subject to 6NYCRR Part 376. The treatment standards listed in the Notification must be applied for waste disposed in New York state if the state standards are more stringent than federal standards listed in 40 CFR Part 268. New York Certification statement(s) and specific treatment standards are listed on the following page(s) where applicable.

SIGNATURE: Peter K. Smith DATE: 1-26-00

PRINT NAME: _____ TITLE: _____

FORM B *(Must be accompanied by Form A)*

Generator Name/Location: [illegible] K. [illegible]

EPA I.D. Number: [illegible] Manifest : 1.52.00

Waste Profile or ARF	Category No.	EPA or STATE Waste Code	Variance Date	Treatability Group (WW or NWW)	Description/Sub Category/ Waste Constituents (where required)
2206399	1	MA01 CR02		NWW	N/A
2206485	1	MA01 CR02		NWW	N/A
2206390	1	MA99 CR04		NWW	N/A
2206390	1	MA99 CR04		NWW	N/A

Revised 10/94

CUSTOMER COPY

Appendix F

Significant Environmental Hazard Notification and Related Well Tests

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER MANAGEMENT
PERMITTING, ENFORCEMENT & REMEDIATION DIVISION
79 ELM STREET, HARTFORD, CT 06106-5127

RECEIVED
SEP 0 8 2000
WATER MANAGEMENT BUREAU

Significant Environmental Hazard Report

Notification under PA 98-134

Please complete this form in accordance with the instructions (DEP-PERD-EHR-INS-100). Print or type unless otherwise noted.
If necessary use addendum pages and check box: ☐

DEP USE ONLY
✓ 200
☐ Acknowledged
☐ Assigned
☐ Phone: Date Time

Part I - Site Information*

1. Site identification for source of pollution causing an environmental hazard:

Name of Site*	MUNICIPAL OFFICES AND TOWN GARAGE				
Address or Location*	7 MAIN STREET				
City/Town*	EAST HADDAM	State	CT	Zip Code	06423
EPA ID#	CT	DEP-WPC #		DEP Inventory #	

2. Attach a copy of a topographic map with the site located thereon. map attached ☒

3. Business/person submitting form*: Check if: ☒ Property Owner ☐ TEP Client

Name	TOWN OF EAST HADDAM				
Mailing Address	7 MAIN STREET				
City/Town	EAST HADDAM	State	CT	Zip Code	06423
Business Phone	860-873-5031	Ext.		Fax	860-873-5042
Authorized Rep.	SUSAN D. MERROW	Title	FIRST SELECTMAN		
Contact Person	JAMES VENTRES	Title	LAND-USE ADMINISTRATOR		

4. Owner of site, if different from above:

Name					
Mailing Address					
City/Town		State		Zip Code	
Business Phone		Ext.		Fax	
Contact Person		Title			

Part I - Site Information (continued)

5. Operator/Tenant at site, if different from owner:

Name/Firm					
Mailing Address					
City/Town		State		Zip Code	
Business Phone		Ext.		Fax	
Contact Person		Title			

6. TEP making determination environmental hazard exists: Check if none ☐

Firm	LAND-TECH CONSULTANTS, INC.				
Mailing Address	205 PLAYHOUSE CORNER				
City/Town	SOUTHBURY	State	CT	Zip Code	06488
Business Phone	203-264-8300	Ext.		Fax	203-264-5995
Contact Person	MICHAEL J. BARTOS, JR.	Title	SENIOR ASSOCIATE		

7. Environmental consultant for mitigation activity, if not above TEP Check if none ☒

Firm					
Mailing Address					
City/Town		State		Zip Code	
Business Phone		Ext.		Fax	
Contact Person		Title			

Part II - Hazard Summary

1. Hazard condition identified*: (check appropriate box)

☐	Surface soil contamination	Drinking water supply well:	
☐	Volatile organic compounds beneath a building	☐	Contamination above groundwater protection criteria
☐	Surface water threatened	☐	Contamination detected
☐	Explosion threat	☒	Threatened

2. Attach a sketch map indicating location of contamination or condition location on site*.
Map attached ☒

Part II - Hazard Summary (continued)

3. How was the pollutant released?

☒	unknown	☐	landfill/wastepile	☐	septic system	☐	UST leak
☐	spill/dumping	☐	burial	☐	dry well	☐	drums
☐	agricultural activity	☐	pit	☐	lagoon	☐	discharge

4. What is the general nature of the contamination?

☒	petroleum/oils	organic chemicals:				☒	metals	☐	sodium/salt
☐	gasoline	☐	volatile	☐	semivolatile	☐	cyanide	☐	leachate
☐	fuel oil/diesel	☐	nonchlorinated	☐	polyaromatic	☐	acid/base	☐	asbestos
☐	nitrate/fertilizer	☐	chlorinated	☐	pesticide/herbicide	☐	PCB	☐	radiation

5. *For drinking water supply above criteria and explosion threat only*:

Was oral notification to DEP made? ☐ No ☐ Yes					
Date		Time		DEP contact	
Was verification to TEP client made? ☐ No ☐ Yes					
Date		Time		Contact	

6. If the release is due to a spill was spill notification made? ☐ No ☐ Yes ☐ Not a spill

Date		Time		DEP contact	

7. Identify any affected or threatened drinking water supply wells*: Check if none affected ☐

Address/Town*	Contact Name/Phone	Pop-ulation	Pollutant† and Concentration in Well*
7 Main Street, E. Haddam	James Ventres 860-873-5030		Threatened
15 Main Street, E. Haddam	Zaniewski		Threatened
10 Main Street, E. Haddam	Poulos		Threatened
14 Main Street, E. Haddam	Goodspeed Opera House		Threatened

Attach additional sheets as needed

† see instruction for pollutant codes, list well analyses only; if threatened well due to groundwater plume within 500 ft. indicate "THREATENED" and complete next section also

Part II Hazard Summary (continued)

8. *For a groundwater contamination plume which is a hazard*: Check if none ☐

List pollutants present in plume above criteria and highest concentrations detected*:

Pollutant†	Concentration	Pollutant†	Concentration
TPH	1800 ug/L	As	47 ug/L
Cr (total)	250 ug/L		
Pb	570 ug/L		

Attach additional sheets as needed † see instruction for pollutant codes

9. Identify any other affected properties*: Check if none affected ☐

Address/Town*	Hazard, Pollutant† & Concentration*	Contact Name	Phone
Connecticut River	TPH 1800 ug/L, As 47 ug/L, Cr 250 ug/L, Pb 570 ug/L		
Succor Brook	TPH 1800 ug/L, As 47 ug/L, Cr 250 ug/L, Pb 570 ug/L		

Attach additional sheets as needed † see instruction for pollutant codes

10. Describe the land use of the site and surrounding area, and identify any sensitive land uses within 1/4 mile of the site:

Property is used for municipal offices, town garage and warehouse used by Goodspeed Opera House.
Surrounding area is densely developed with mixed residential and commercial use.
Connecticut River borders property to the west.
Succor Brook and associated wetlands are south and east of the property.

11. Additional comments regarding the hazard:

Attach additional sheets as required

Part III - Past DEP Involvement (OPTIONAL)

1. Property transfer filings: Check if none ☐

Form (I-IV)	Date	Transferor

Part III - Past DEP Involvement (OPTIONAL) (continued)

2. Voluntary remediation/ECAF filings: Check if none ☐

Date	Filing Party	DEP determination

3. DEP staff involved with assessment or remediation of the site: Check if none ☐

Time Period	DEP Section	Name

4. Past enforcement actions regarding remediation: Check if none ☐

Agency (EPA/DEP)	Action Type and Number	Date	Name of Party	Purpose and Status

5. Releases previously reported to CT DEP Oil & Chemical Spills Division: Check if none ☐

Date	Material Released	Quantity

6. Describe other relevant DEP involvement: Check if none ☐

RCRA Notifier Status	RCRA Permit Status

7. What environmental reports exist for the site and are available to DEP? Check if none ☒

Type of Report	Date (mo/yr)	Preparer	Attached? (Y/N)	Previously submitted?	DEP Unit to which sent
Field investigation/ Environmental Assessment					
Phase I					
Phase 2					
Phase 3					

Part IV - Actions to Abate Hazard*

Check if plan or report attached ☐

Describe actions taken to abate hazard condition*: Check if none ☒

Municipal offices and town garage use bottled water and do not drink well water.

Describe actions to be taken to abate hazard condition*: Check if none ☐

Determine extent of contamination.
Survey threatened properties and sample water supply wells for presence of TPH and metals.

Part V - Signature*

"I have personally examined and am familiar with the information submitted in this document and all attachments, and certify that based on reasonable investigation the submitted information is true and accurate to the best of my knowledge and belief. I certify that this form is complete and accurate as prescribed by the Commissioner without alteration of the text."

Name (print or type)	Susan D. Merrow	Title (if applicable)	First Selectman
Signature	Susan D Merrow	Date 9/6/00	

* signifies information required by PA 98-134

Continuation of:

7. Identify any affected or threatened drinking water supply wells*: Check if none affected ☐

Address/Town*	Contact Name/Phone	Pop-ulation	Pollutant† and Concentration in Well*
2 Norwich Road, E. Haddam	Schleidt		Threatened
4 Norwich Road, E. Haddam	DiErrico		Threatened
6 Norwich Road, E. Haddam	Stone		Threatened
8 Norwich Road, E. Haddam	Davis		Threatened
3 Norwich Road, E. Haddam	D'Aquila		Threatened
19 Norwich Road, E. Haddam	Bogan		Threatened
17 Norwich Road, E. Haddam	Goodspeed Opera House		Threatened

Attach additional sheets as needed

† see instruction for pollutant codes, list well analyses only; if threatened well due to groundwater plume within 500 ft. indicate "THREATENED" and complete next section also

N

LOCATION MAP

1" = 2000'

TOWN GARAGE AND MUNICIPAL OFFICES
7 MAIN STREET
EAST HADDAM, CONNECTICUT

usgs8X11.doc

LAND-TECH CONSULTANTS, INC.
ENVIRONMENTAL SCIENTISTS AND ENGINEERS

Memorandum

DATE: December 22, 2000
TO: Ken Feathers
FROM: Mike Bartos
RE: East Haddam

Via FAX @ 860-424-4057

Here is a table summarizing exceedances based on sampling of tap water from properties surrounding the East Haddam Town Hall. The three properties have office and retail use on street level and residential use on upper floor.

	Drinking Water Well Ground-water Protection Criteria (ug/L)	2 Norwich Road (ug/L)	4 Norwich Road (ug/L)	15 Main Street (ug/L)	19 Main Street (ug/L)
Date Sampled		10/6/00	10/6/00	10/6/00	10/6/00
Arsenic	50	ND	7	ND	ND
Barium	1000	30	ND	18	ND
Cadmium	5	ND	ND	ND	ND
Chromium	50	ND	ND	ND	ND
Lead	15	7	2	22	2
Mercury	2	ND	ND	ND	ND
Selenium	50	ND	ND	ND	ND
Silver	36	ND	ND	ND	ND
TPH	500	**31,000**	**30,000**	ND	**19,000**

FILE Wells_500'_Lab_DEP_1200.doc

205 Playhouse Corner
Southbury, CT 06488
Phone: 203-264-8300
Fax: 203-264-5995

E-mail: landtech@landtechconsult.com
www.landtechconsult.com

31 Franklin Street
Westport, CT 06880
Phone: 203-454-2110
Fax: 203-454-4971

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF WATER MANAGEMENT
Permitting, Enforcement and Remediation Division

ACKNOWLEDGEMENT

July 2, 2001

James Ventres
Land Use Administrator
Town of East Haddam
7 Main Street
East Haddam, CT 06423

RE: Notification of Significant Environmental Hazard
Municipal offices and Town Garage, 7 Main Street, East Haddam

Dear Mr. Ventres:

This is to acknowledge receipt, on September 8, 2000, of your written notification, under the requirements of Connecticut General Statutes (CGS) Section 22a-6u. This notification reported the presence of an environmental hazard at the Municipal offices and Town Garage, located at 7 Main Street in East Haddam. Your notification identified the following significant environmental hazard:

> Groundwater pollution with petroleum and metals exceeding adopted groundwater protection criteria is located within 500 feet of supply wells.

Thank you for notifying DEP of this condition. I apologize for the delay in sending this acknowledgement letter. DEP understands that in the intervening period you have discussed this site with Kenneth Feathers of DEP staff, and sampled and re-sampled supply wells in proximity to the site, with inconclusive results regarding site impact on these supply wells.

Within 90 days of receipt of this acknowledgement, please submit to the attention of the staff member identified below, the following:

1. a letter report of your actions, including all test results, and
2. recommendations for further action, including additional monitoring, with an implementation schedule.

If you have any questions regarding your obligations specified in this letter, please contact Jon Goldman of the DEP at 860-424-3785.

Sincerely,

Michael Harder
Director

MH:KRF

CERTIFIED MAIL RRR

7099 3400 0009 5065 4179

CC:

Michael J. Bartos, Jr., Senior Associate, Land-Tech Consultants, Inc., 205 Playhouse Corner, Southbury, CT, 06488
Kathryn Johnson, M.D., Acting Director of Health, Town of East Haddam, P. O. Box K, East Haddam, CT 06423
Jon Goldman, DEP
Kenneth Feathers, DEP

File E. Haddam Env.

LAND-TECH CONSULTANTS, INC.

ENVIRONMENTAL SCIENTISTS AND ENGINEERS

December 4, 2001

Mr. Jon Goldman
Bureau of Waste Management
Department of Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Re: Notification of Significant Environmental Hazard
Municipal Offices and Town Garage, 7 Main Street, East Haddam

Dear Mr. Goldman:

In an acknowledgement letter dated July 2, 2001 to James Ventres, the Department requested:

"1. a letter of your actions, including all test results, and 2. recommendations for further action, including monitoring, with an implementation schedule."

This letter presents the town of East Haddam's response to that request. The remainder of this letter sets forth a brief summary of the subsurface investigation that led to the notification of a significant environmental hazard, subsequent water-supply test results, and recommendations for additional monitoring.

Background – Initial Subsurface Investigation

In July 2000, Land Tech conducted a subsurface investigation to evaluate potential soil and groundwater contamination primarily related to the town garage, the storage shed near the warehouse at 7 Main Street, and an underground dry well or tank near the River House. The investigation included obtaining and testing soil and groundwater samples from monitor wells in three locations on the property.

One monitor well (MW-1) is near the River House; a second (MW-2) is immediately next to the town garage; and the third (MW-3) is near the storage shed where a gasoline UST was removed in January, 2000. The monitor well locations appear on Figure 1.

In all three monitor wells, soil beneath the topsoil or pavement layer was sandy to the bottom of the boring or to refusal. In MW-1 and MW-2, ledge was encountered at 4.5 and 8 feet below ground surface (bgs) respectively. No ledge was encountered in MW-3. No split spoon samples or auger cuttings from any of the borings exhibited either odors or discoloration that would suggest contamination.

There was no soil sample from MW-1. Split spoon soil samples from MW-2 and MW-3 taken at a depth of 5-7 feet bgs were sent to the lab for testing. Both soil samples were tested in the laboratory for total petroleum hydrocarbons (TPH) by EPA Method 418.1 (infrared), for volatile and aromatic organic compounds by EPA Method 8260, and for RCRA-8 heavy metals (arsenic,

205 Playhouse Corner
E-mail: landtech@landtechconsult.com
www.landtechconsult.com
31 Franklin Street
Westport, CT 06880
Phone: 203-454-2110

barium, cadmium, chromium, lead, mercury, selenium, silver and zinc) on a total basis and using the toxicity characteristic leaching procedure (TCLP). The laboratory did not detect TPH, VOCs or metals in any of the soil samples in concentrations exceeding the levels set forth in the Remediation Standard Regulations (RSRs) published by the DEP (Table 1).

TABLE 1: SUMMARY OF SOIL TEST RESULTS
Sample Date: 7/28/00

	RSR Criteria for GA area		Sample Location (Sample Depth)	
	DEC	PMC	MW-2 (5-7 ft bgs)	MW-3 (5-7 ft bgs)
TPH by IR, mg/kg	500	2500	200	54
VOCs by 8260	VARY	VARY	ND	ND
Arsenic (total), mg/kg	10		3.5	5.6
Arsenic (TCLP), mg/L		0.05	ND	ND
Barium (total), mg/kg	4700		28	33
Barium (TCLP), mg/L		1.0	ND	ND
Chromium (total), mg/kg	See Note		18	28
Chromium (TCLP), mg/L		0.05	ND	ND
Lead (total), mg/kg	500		31	8.5
Lead (TCLP), mg/L		0.015	ND	ND
Other Metals	VARY	VARY	ND	ND

Notes:
DEC = Direct Exposure Criteria of DEP Remediation Standard Regulations.
PMC = Pollutant Mobility Criteria of DEP Remediation Standard Regulations.
bgs = below ground surface.
ND = not detected.
Site is in GB groundwater classification area, but GA criteria applied because no public water supply available to site.
Most stringent chromium DEC is 100 mg/kg, for hexavalent chromium.
All samples tested for VOCs by EPA Method 8260.
TPH by IR = EPA Method 418.1.

A week after monitor well construction, groundwater samples were obtained from the three monitor wells and tested in the laboratory for TPH, VOCs and metals. The laboratory did not detect TPH, VOCs or metals in the groundwater sample from MW-3 in concentrations exceeding the levels set forth in the RSRs. The laboratory detected chromium and TPH in groundwater samples from MW-1 and lead, chromium and TPH in MW-2 in concentrations exceeding the groundwater protection criteria set forth in the RSRs (Table 2).

On August 30, 2000, Land Tech sampled the tap water at the town hall to determine whether the contamination detected at MW-1 and MW-2 was also present in the on-site water-supply well. The sample is representative of water pumped from the well located between the River House and the town garage (see Figure 1). Lab testing did not detect TPH or metals, except lead (1.0 ug/L). This well serves the former town garage, the River House, and the town hall. The

water has not been used for consumption for many years. The buildings use bottled water for drinking.

On November 15, 2000, Land Tech sampled all three monitor wells and had the samples tested for pesticides. None were detected.

TABLE 2: SUMMARY OF GROUNDWATER TEST RESULTS
Sample Date: 8/9/00

	GPC	MW-1	MW-2	MW-3
TPH by IR, ug/L	500	**1800**	**1400**	ND
Chloroform, ug/L	6	2.0	1.9	ND
Toluene, ug/L	1000	5.5	ND	ND
Other VOCs by 8260	VARY	ND	ND	ND
Arsenic, ug/L	50	16	47	ND
Barium, ug/L	1000	180	380	30
Chromium (total), ug/L	50	200	250	ND
Lead, ug/L	15	ND	570	ND
Other Metals	VARY	ND	ND	ND

Notes:
GPC = Groundwater Protection Criteria of DEP Remediation Standard Regulations.
ND = not detected.
Site is in GB groundwater classification area, but GA criteria applied because no public water supply available to site.
NE = Not Established.
All samples tested by EPA Method 8260.
Values in **BOLD** exceed limits in Remediation Standard Regulations.
TPH by IR = EPA Method 418.1
Lab testing of samples obtained from all 3 MWs on 11/15/00 detected no pesticides.
Lab testing of tap water sample obtained from town hall on 8/30/00 detected lead (1.0 ug/L) and no other metals and no TPH.

Surrounding Wells

Because the concentrations of TPH and some metals in MW-2 and MW-1 exceeded the Groundwater Protection Criteria and these wells are within 500 feet of drinking water supply wells, East Haddam submitted a notification of significant environmental hazard to the DEP. The notification was made in September of 2000. Ken Feathers of the Department subsequently contacted Land Tech and requested that residential wells within 500 feet of the groundwater contamination be tested.

Land Tech sampled the residential wells plus the non-residential wells at Williams Chevrolet and the Goodspeed Opera House, which are nearby. The results appear in Table 3 below. The initial results showed the presence of TPH in five wells and lead in one well in which TPH was not detected.

Because the well samples exhibited no odor or sheen, Land Tech did not believe the TPH results to be valid. After discussion with Ken Feathers, Land Tech re-sampled the residential wells in which TPH was initially reported and tested those samples by more reliable and precise test methods.

The residential well samples, taken on 12/26/00 and 1/3/01, were tested by Phoenix Laboratory for VOCs by Method 524.2, and three were tested by the Department of Health Services Laboratory by Method 525.2 for semi-volatiles. Test results (Table 4) showed no significant petroleum compounds to be present. It is reasonable to conclude, therefore, that the wells have no TPH contamination. Land Tech believes the high TPH levels reported in the original TPH testing to have resulted from either lab error or false positives, commonly encountered with the infrared test method.

Land Tech also re-sampled the well located at 15 Main Street for lead on 12/26/00. One sample was taken from an indoor tap with no flushing, then a second sample was obtained from the same tap after five minutes of flushing. The lead concentration in the second sample was substantially lower in the sample taken after flushing. Although inconclusive, this suggests the possibility of a lead problem in the plumbing, rather than contamination in the groundwater.

TABLE 3: SUMMARY OF TAP WATER SAMPLING IN VICINITY

	GPC (ug/L)	2 Norwich Road (ug/L)	4 Norwich Road (ug/L)	7 Main Street (ug/L)	9 Main Street (ug/L)	12 Main Street (ug/L)	15 Main Street (ug/L)	17 Main Street (ug/L)	19 Main Street (ug/L)	Goodspeed Opera House (ug/L	Williams Chevrolet (ug/L (ug/L
Date Sampled		10/6/00	10/6/00	8/30/00	10/6/00	10/6/00	10/6/00	10/6/00	10/6/00	10/6/00	10/6/00
Arsenic	50	BDL	7	BDL	5	4	BDL	8	BDL	BDL	BDL
Barium	1000	30	BDL	BDL	9	BDL	18	BDL	BDL	BDL	30
Cadmium	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead	15	7	2	1	2	1	22	3	2	2	3
Mercury	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2	BDL
Selenium	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Silver	36	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TPH-IR	500	31,000	30,000	BDL	BDL	BDL	BDL	BDL	19,000	14,000	25,000

Notes:
GWP = Groundwater Protection Criteria of DEP Remediation Standard Regulations.
BDL = Below detection limit.
Site is in G8 groundwater classification area, but GA criteria applied because no public water supply available to site.
NE=not established.
All samples tested by EPA Method 8260.
Values in **BOLD** exceed limits of GWP criteria.
TPH by IR = EPA Method 418.1

TABLE 4: SUMMARY OF FOLLOW-UP SAMPLING

	GPC (ug/L)	2 Norwich Road (ug/L)	4 Norwich Road (ug/L)	15 Main Street (ug/L)	15 Main Street (ug/L)	19 Main Street (ug/L)
Date Sampled		12/26/00	1/3/01	12/26/00	12/26/00	12/26/00
Lead	15	No Test	No Test	18 (no purge)	4 (5-min. purge)	No Test
VOCs	VARY	BDL	0.9 Bromoform	No Test	No Test	BDL
SVOCs	VARY	0.4 Phthalates	Test Failed	No Test	No Test	0.7 Phthalates

Notes:
GPC = Groundwater Protection Criteria of DEP Remediation Standard Regulations.
BDL = Below detection limit.
Site is in GB groundwater classification area, but GA criteria applied because no public water supply available to site.
Values in **BOLD** exceed limits of GPC.
VOCs by EPA Method 524.2
SVOCs by EPA Method 525.2

Conclusions and Recommendations

Based on the above lab test results, we do not believe that the contaminants detected in on-site monitor wells are affecting any on-site or off-site water supply well. The only water supply well apparently having a water-quality problem is the well at 15 Main Street, and that problem appears to be related to indoor plumbing rather than well contamination and is unrelated to on-site conditions. Based on the foregoing, it does not appear that contamination at the site represents a significant environmental hazard.

Nevertheless, East Haddam proposes to continue monitoring groundwater from monitor wells on the site to determine whether the detected compounds persist or are reduced through natural attenuation. The town will also conduct additional sampling at 15 Main Street to confirm whether the building's plumbing is the cause of the lead detected there.

A well has recently been located on Broom Street within 500 feet of the town site (see Figure 1). The town will sample this well and test for the presence of metals and extractable TPH (method commonly known as CT-ETPH).

Following is an outline of the investigation planned, along with a preliminary implementation schedule.

SCHEDULE FOR FURTHER ACTION	
ITEM	COMPLETION
Purge and re-sample three existing monitor wells on town property. Test groundwater samples for metals and CT-ETPH.	Within 30 days of DEP approval
Sample well for house at end of Broom Road. Test for CT-ETPH and metals. Investigate lead contamination at 15 Main Street to determine whether source is related to indoor plumbing or groundwater.	Within 30 days of DEP approval
Survey locations and casing elevations of monitor wells and prepare map showing water table contours.	Within 30 days of DEP approval
Prepare and submit report of findings to DEP.	Within 60 days of DEP approval

Sincerely,
LAND-TECH CONSULTANTS, INC.

Michael J. Bartos, Jr., P.E.
Senior Associate

cc: James Ventres
Andrew Lord, Esq.

encl: Figure 1

File: 7MainSigHaz02.doc

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040-0418
Tel. (860) 645-1102 Fax (860) 645-0823

RECEIVED
OCT 25 2000
LAND-TECH CONSULTANTS, INC

October 18, 2000

Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury CT 06488

Attention: Mr. Michael Bartos, Jr.

Sample ID#: AC94251-60

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

This report, starting with the cover sheet ending with the chain of custody, consists of 13 pages.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NEIGHBORING DW WELLS
TPH-IR
RCSA-8
10/6/01

CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
NY Lab Registration #11301
RI Lab Registration #63
NH Lab Registration #213693-A,B
ME Lab Registration #CT-007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 18, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		10/06/00	17:13
Location Code:	LANDTECH	Received by:	SW	10/09/00	16:25
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH 9 MAIN Phoenix I.D. AC94251

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	0.005	0.004	mg/L	10/10/00	8:13	R/T	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.002	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	0.009	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	BDL	0.50	mg/L	10/13/00	17:13	ESG	E418.1

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
October 18, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 18, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		10/06/00	17:13
Location Code:	LANDTECH	Received by:	SW	10/09/00	16:25
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH 12 MAIN Phoenix I.D. AC94252

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	0.004	0.004	mg/L	10/10/00	8:13	R/T	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.001	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	BDL	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	BDL	0.50	mg/L	10/13/00	17:13	ESG	E418.1

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
October 18, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 18, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		10/06/00	17:13
Location Code:	LANDTECH	Received by:	SW	10/09/00	16:25
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH 15 MAIN Phoenix I.D. AC94253

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	BDL	0.004	mg/L	10/10/00	8:13	R/T	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.022	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	0.018	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	BDL	0.50	mg/L	10/13/00	17:13	ESG	E418.1

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
October 18, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 18, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		10/06/00	17:13
Location Code:	LANDTECH	Received by:	SW	10/09/00	16:25
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH 17 MAIN Phoenix I.D. AC94254

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	0.008	0.004	mg/L	10/10/00	8:13	R/T	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.003	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	BDL	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	BDL	0.50	mg/L	10/13/00	17:13	ESG	E418.1

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
October 18, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 18, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		10/06/00	17:13
Location Code:	LANDTECH	Received by:	SW	10/09/00	16:25
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH 19 MAIN Phoenix I.D. AC94255

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	BDL	0.004	mg/L	10/12/00	8:56	RS	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.002	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	BDL	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	19	5.0	mg/L	10/13/00	17:13	ESG	E418.1

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
October 18, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 18, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		10/06/00	17:13
Location Code:	LANDTECH	Received by:	SW	10/09/00	16:25
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH OPERA HOUSE Phoenix I.D. AC94256

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	BDL	0.004	mg/L	10/12/00	8:56	RS	206.2
Mercury	0.0002	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.002	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	BDL	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	14	2.5	mg/L	10/13/00	17:13	ESG	E418.1

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
October 18, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 18, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		10/06/00	17:13
Location Code:	LANDTECH	Received by:	SW	10/09/00	16:25
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH WILLIAMS CHEVROLET Phoenix I.D. AC94257

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	BDL	0.004	mg/L	10/12/00	8:56	RS	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.003	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	0.03	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	25	5.0	mg/L	10/13/00	17:13	ESG	E418.1

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
October 18, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 18, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		10/06/00	17:14
Location Code:	LANDTECH	Received by:	SW	10/09/00	16:25
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH 2 NORWICH Phoenix I.D. AC94258

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	BDL	0.004	mg/L	10/12/00	8:56	RS	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.007	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	0.03	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	31	5.0	mg/L	10/13/00	17:13	ESG	E418.1

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
October 18, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 18, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		10/06/00	17:14
Location Code:	LANDTECH	Received by:	SW	10/09/00	16:25
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH 4 NORWICH Phoenix I.D. AC94259

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	0.007	0.004	mg/L	10/12/00	8:56	RS	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.002	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	BDL	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	30	5.0	mg/L	10/13/00	17:13	ESG	E418.1

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
October 18, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

QC Report

AC94260 October 18, 2000

Sample ID AC94260

Analysis: **AA Metals Analysis QC** *AC94260*

QC Source: ERA 9989 NY 2506 Analyte	Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.005	103	91	NC
Hg Mercury	<0.0005	98	98	NC
Pb Lead	<0.001	105	102	NC
Sb Antimony	<0.005	107	98	NC
Se Selenium	<0.005	101	99	NC
Tl Thallium	<0.005	106	89	NC
Cd Cadmium	<0.0002	110	97	0.6
Ag Silver	<0.0002	111	110	2.7

Analysis: **ICP Metals Analysis QC** *AC94260*

QC Source: ERA 9989 MIN QCI 702 ICP 0900 Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	102	100	NC
Al Aluminum	<0.05	97	85	NC
As Arsenic	<0.05	100	95	NC
B Boron	<0.10	112	110	NC
Ba Barium	<0.01	102	95	NC
Be Beryllium	<0.01	102	105	NC
Ca Calcium	<0.30	103	80	1.1
Cd Cadmium	<0.01	104	95	NC
Co Cobalt	<0.01	103	99	NC
Cr Chromium	<0.01	103	101	NC
Cu Copper	<0.01	101	96	0.5
Fe Iron	<0.05	101	95	2.3
K Potassium	<0.30	100	112	0.9
Mg Magnesium	<0.02	103	113	1.4
Mn Manganese	<0.01	104	83	2.5
Mo Molybdenum	<0.05	96	86	NC
Na Sodium	<0.50	99	106	0.6
Ni Nickel	<0.01	103	106	NC
P Phosphorus	<0.20	102	91	0.7
Pb Lead	<0.05	103	89	NC
Se Selenium	<0.05	108	97	NC
Sn Tin	<0.25	101	111	NC
Ti Titanium	<0.01	103	104	NC
V Vanadium	<0.01	85	107	NC
Zn Zinc	<0.01	107	100	0.0

Analysis: **Total Petroleum HC/IR Q** *AC94260*

QC BLANK: <0.50 UNITS: mg/L
QC CHECK SAMPLE % RECOVERY:104% QC SOURCE: IN HOUSE
SP SAMPLE SPIKE % RECOVERY: 103% SPIKE SAMPLE: AC94252
QC SAMPLE REPLICATE % CHANGE: N/C REPLICATED SAMPLE: AC94251

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller

Phyllis Shiller
Laboratory Director

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Client Services (860) 645-8726

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: JAMES VENTRES TOWN OF EAST HADDAM
Address: MUNICIPAL OFFICE BUILDING EAST HADDAM CT 06423

Project: 7 MAINEH
Report To: M. BARTOS (LAND-TECH)
Invoice To: JAMES VENTRES

Project P.O.: _____
Phone #: (203) 269-8300
Fax #: (203) 269-2895

| Client Sample – Information – Identification | | | | | Analysis Requested | | | | |

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040-0418
Tel. (860) 645-1102 Fax (860) 645-0823

RECEIVED
JAN 03 2001
LAND-TECH CONSULTANTS, INC.

December 30, 2000

Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury CT 06488

Attention: Mr. Michael Bartos, Jr.

Sample ID#: AD07105-09

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

This report, starting with the cover sheet ending with the chain of custody, consists of 12 pages.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

524.2 & Pb
12/26/00
2 NORWICH
15 MAIN
19 MAIN

CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
NY Lab Registration #11301
RI Lab Registration #63
NH Lab Registration #213693-A,B
ME Lab Registration #CT-007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 419, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 30, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/26/00	0:00
Location Code:	LANDTECH	Received by:	SW	12/26/00	15:15
Project Code:	RUSH24HR	Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH 2 NORWICH Phoenix I.D. AD07105

Parameter	Result	RL	Units	Date	Time	by	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1,1-Trichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1,2-Trichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1-Dichlorethene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1-Dichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1-Dichloropropene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2,3-Trichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2,3-Trichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2,4-Trichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2,4-Trimethylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dibromo-3-chloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dibromoethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,3,5-Trimethylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,3-Dichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,3-Dichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2

Client ID: 7 MAIN EH 2 NORWICH Phoenix I.D. AD07105

Parameter	Result	RL	Units	Date	Time	by	Reference
1,4-Dichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
2,2-Dichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
2-Butanone	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
2-Chlorotoluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
4-Chlorotoluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
4-Isopropyltoluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Benzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromochloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromodichloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromoform	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromomethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Carbon Tetrachloride	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chloroform	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
cis-1,2-Dichloroethene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
cis-1,3-Dichloropropene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Dibromochloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Dibromomethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Dichlorodifluoromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Ethylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Hexachlorobutadiene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Isopropylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Methyl Tert Butyl Ether	ND	1.0	ug/L	12/27/00	14:50	KCA	524.2
Methylene Chloride	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
n-Butylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Napthalene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
o-Xylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
p- and m- Xylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Propylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
sec-Butylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Styrene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
tert-Butylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Tetrachloroethylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2

Client ID: 7 MAIN EH 2 NORWICH Phoenix I.D. AD07105

Parameter	Result	RL	Units	Date	Time	by	Reference
Toluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Total Trihalomethanes (TTHM)	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
trans-1,3-Dichloropropene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Trichloroethylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Trichlorofluoromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Vinyl Chloride	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
%4-Bromofluorobenzene (Surrogate)	79%		%	12/27/00	14:50	KCA	524.2

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
December 30, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 419, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 30, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/26/00	0:00
Location Code:	LANDTECH	Received by:	SW	12/26/00	15:15
Project Code:	RUSH24HR	Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH 15 MAIN-0 Phoenix I.D. AD07106

Parameter	Result	RL	Units	Date	Time	by	Reference
Lead (Furnace)	0.018	0.001	mg/L	12/27/00	11:26	RS	7421/S3113B
Total Metals Digest	Completed			12/27/00	20:31	AB	SW846 - 3005

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
December 30, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 419, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 30, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/26/00	0:00
Location Code:	LANDTECH	Received by:	SW	12/26/00	15:15
Project Code:	RUSH24HR	Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH 19 MAIN Phoenix I.D. AD07107

Parameter	Result	RL	Units	Date	Time	by	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1,1-Trichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1,2-Trichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1-Dichlorethene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1-Dichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1-Dichloropropene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2,3-Trichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2,3-Trichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2,4-Trichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2,4-Trimethylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dibromo-3-chloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dibromoethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,3,5-Trimethylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,3-Dichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,3-Dichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2

Client ID: 7 MAIN EH 19 MAIN

Phoenix I.D. AD07107

Parameter	Result	RL	Units	Date	Time	by	Reference
1,4-Dichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
2,2-Dichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
2-Butanone	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
2-Chlorotoluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
4-Chlorotoluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
4-Isopropyltoluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Benzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromochloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromodichloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromoform	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromomethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Carbon Tetrachloride	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chloroform	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
cis-1,2-Dichloroethene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
cis-1,3-Dichloropropene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Dibromochloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Dibromomethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Dichlorodifluoromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Ethylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Hexachlorobutadiene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Isopropylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Methyl Tert Butyl Ether	ND	1.0	ug/L	12/27/00	14:50	KCA	524.2
Methylene Chloride	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
n-Butylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Napthalene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
o-Xylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
p- and m- Xylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Propylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
sec-Butylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Styrene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
tert-Butylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Tetrachloroethylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2

Client ID: 7 MAIN EH 19 MAIN Phoenix I.D. AD07107

Parameter	Result	RL	Units	Date	Time	by	Reference
Toluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Total Trihalomethanes (TTHM)	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
trans-1,3-Dichloropropene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Trichloroethylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Trichlorofluoromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Vinyl Chloride	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
%4-Bromofluorobenzene (Surrogate)	79%		%	12/27/00	14:50	KCA	524.2

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
December 30, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 30, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/26/00	0:00
Location Code:	LANDTECH	Received by:	SW	12/26/00	15:15
Project Code:	RUSH24HR	Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN EH 15 MAIN-5 Phoenix I.D. AD07108

Parameter	Result	RL	Units	Date	Time	by	Reference
Lead (Furnace)	0.004	0.001	mg/L	12/27/00	11:26	RS	7421/S3113B
Total Metals Digest	Completed			12/27/00	20:31	AB	SW846 - 3005

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller

Phyllis Shiller, Laboratory Director
December 30, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

QC Report

AD07109 December 30, 2000

Sample ID AD07109

Analysis: **AA Metals Analysis QC** *AD07109*

Analyte	QC Source: ERA 99101 NY 2506 Blank PPM	QC Check (% Rec.)	QC Spike (% Rec.)	QC Sample Replicate (% change)
AS Arsenic	<0.005	100	113	NC
Hg Mercury	<0.0005	102	92	NC
Pb Lead	<0.001	106	96	NC
Sb Antimony	<0.005	101	101	NC
Se Selenium	<0.005	99	104	NC
Tl Thallium	<0.005	105	90	NC
Cd Cadmium	<0.0002	100	96	NC
AG Silver	<0.0002	96	104	NC

Analysis: **Volatiles (MS) Analysis QC** *AD07109*

Analyte	Matrix Spike Dup	Matrix Spike (%D) (Rec)	Relative %Diff (%Rec)
Benzene	120%	110%	9%
Chlorobenzene	140%	119%	16%
1,1-Dichloroethylene	130%	120%	8%
Toluene	108%	108%	11%
Trichloroethylene	120%	100%	18%

No analytes were detected in the applicable method blanks above the stated detection limits with the following exceptions:

(NONE)

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller
Laboratory Director

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Client Services (860) 645-8726

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: JAMES VENTRES TOWN OF EAST HADDAM
Address: MUNICIPAL OFFICE BUILDING EAST HADDAM, CT 06423

Project: 7 MAIN EH
Report To: M. PACTOS (LAND-TECH)
Invoice To: JAMES VENTRES

Project P.O.: _____
Phone #: (203 364 8300
Fax #: (203 267 5995

Client Sample – Information – Identification

Sampler's Signature: X _____ Date: 12/20/00

Analysis Requested

Item #	Customers Sample Ident	Sample Matrix	Date	Time	524.2	TOTAL LEAD	VOA VIALS	PH < 2 + HNO3 (3)	PH < 2 + NaOH	PH > 9 + NaS2O3	GL + H2SO4	Field Filtered + HNO3	Bacteria Bottle	PHOENIX SAMPLE #
1	2 NORWICH	DW	12/20/00		X		2							07105
2	15 MAIN-0	DW	"			X		1						07106
3	19 MAIN	DW	"		X		2							07107
4	15 MAIN-5	DW	"			X		1						07108
														07109 QC

Item #	Relinquished by:	Accepted by:	Date:	Time:
1-4	[signature]	B Pulatos	12/20/00	15:15.

Comments:
PLEASE PROVIDE 1-DAY TURN-AROUND & FAX RESULTS TO 203.264.5995

6 QC

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: X 1 ___2 ___3 ___4 ___5 working days.

STATE OF CONNECTICUT
Department of Public Health
Division of Laboratory Services
10 Clinton St.
P.O. Box 1689
Hartford, CT 06144
TELEPHONE: (860) 509-8500

I.D.	ACCESSION NO.	ACCOUNT NO.	AGE	S		PAG
NR:4NORWICH	16126847	506423	0			1

INFORMATION
041EAST HADDAM
EAST HADDAM
4 NOWRICH RD
EAST HADDAM CT

EAST HADDAM TOWN SANITARIAN
THOMAS ARMENTANO R.S
TOWN HALL RT.82
EAST HADDAM CT 06423

COLLECTED	RECEIVED	REPORTED
12/26/00 00:00	01/04/01 12:30	01/23/01 16:31

EPORT FINAL REPORT

COMMENT

TEST(S)	RESULT(S)
	SAMPLING POINT: WELL COLLECTOR: LAND TECH INC TITLE: CONSULTANTS PRIVATE WELL TREATMENT:
TE EXTRACTED TE ANALYZED	1/08/01 1/12/01
	ANALYTICAL METHOD: EPA METHOD 525.2 DETERMINATION OF ORGANIC COMPOUNDS IN DRINKING WATER BY LIQUID-SOLID EXTRACTION AND CAPILLARY COLUMN GAS CHROMATOGRAPHY / MASS SPECTROMETRY
SU TS	EXTRACTION/ANALYSIS FAILED: RECOVERY OF INTERNAL STANDARDS WAS NOT WITHIN ACCEPTABLE LIMITS FOR THIS METHOD. RESAMPLING IS NECESSARY.

RAM
1/24/01

JAN 30 2001

** END OF REPORT **

STATE OF CONNECTICUT
Department of Public Health
Division of Laboratory Services
10 Clinton St.
P.O. Box 1689
Hartford, CT 06144
TELEPHONE: (860) 509-8500

I.D.	ACCESSION NO.	ACCOUNT NO.	AGE	S		PAGE
NA:2NORWICH	16126869	506423	0			1

INFORMATION
041EAST HAMPTON
EAST HADDAM
2 NORWICH RD.
EAST HAMPTON CT

EAST HADDAM TOWN SANITARIAN
THOMAS ARMENTANO R.S
TOWN HALL RT.82
EAST HADDAM CT 06423

COLLECTED	RECEIVED	REPORTED
12/26/00 00:00	01/04/01 12:30	01/23/01 16:31

EPORT FINAL REPORT

COMMENT

TEST(S)	RESULT(S)
	SAMPLING POINT: WELL COLLECTOR: LAND TECH INC. TITLE: CONSULTANTS PRIVATE WELL
TE EXTRACTED	1/09/01
TE ANALYZED	1/12/01
	ANALYTICAL METHOD: EPA METHOD 525.2 DETERMINATION OF ORGANIC COMPOUNDS IN DRINKING WATER BY LIQUID-SOLID EXTRACTION AND CAPILLARY COLUMN GAS CHROMATOGRAPHY / MASS SPECTROMETRY

S! S	COMPOUND	QUANTITY (PPB)	MDL (PPB)
	Benzo(A) Pyrene	ND	0.12
	Bis (2-Ethylhexyl) Adipate	ND	0.18
	Bis (2-Ethylhexyl) Phthalate	0.4	0.39

Adipates and Phthalates are frequent field and laboratory contaminants. High values for these compounds can occur at random. In some cases resampling may be required.

ND = None Detected

It should be noted that an MDL calculation represents an ideal situation and complex matrices may affect these values.

Other analytes available on request.

RAM
1/24/01

** END OF REPORT **

STATE OF CONNECTICUT
Department of Public Health
Division of Laboratory Services
10 Clinton St.
P.O. Box 1689
Hartford, CT 06144
TELEPHONE: (860) 509-8500

I.D.	ACCESSION NO.	ACCOUNT NO.	AGE	S		PAGE
NR:19MAIN	16126870	506423	0			1

INFORMATION
041EAST HADDAM
EAST HADDAM
19 MAIN ST
EAST HADDAM CT

EAST HADDAM TOWN SANITARIAN
THOMAS ARMENTANO R.S
TOWN HALL RT.82
EAST HADDAM CT 06423

COLLECTED	RECEIVED	REPORTED
12/26/00 00:00	01/04/01 12:30	01/23/01 08:07

EPORT FINAL REPORT

COMMENT

TEST(S)	RESULT(S)
	SAMPLING POINT: WELL COLLECTOR: LAND TECH INC TITLE: CONSULTANT PRIVATE WELL TREATMENT:
TE EXTRACTED TE ANALYZED	1/08/01 1/12/01
	ANALYTICAL METHOD: EPA METHOD 525.2 DETERMINATION OF ORGANIC COMPOUNDS IN DRINKING WATER BY LIQUID-SOLID EXTRACTION AND CAPILLARY COLUMN GAS CHROMATOGRAPHY / MASS SPECTRONETRY
SI S	COMPOUND QUANTITY (PPB) MDL (PPB)
	Benzo(A) Pyrene ND 0.12 Bis (2-Ethylhexyl) Adipate ND 0.18 Bis (2-Ethylhexyl) Phthalate 0.7 0.39
	Adipates and Phthalates are frequent field and laboratory contaminants. High values for these compounds can occur at random. In some cases resampling may be required.
	ND - None Detected
	It should be noted that an MDL calculation represents an ideal situation and complex matrices may affect these values.
	Other analytes available on request.
	NOTE: INTERNAL STANDARD RECOVERIES WERE SLIGHTLY BELOW ACCEPTABLE LIMITS FOR THIS METHOD.
	** END OF REPORT **

RAM
1/24/01

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040-0418
Tel. (860) 645-1102 Fax (860) 645-0823

RECEIVED
JAN 10 2001

January 09, 2001

Land-Tech Consultants. Inc.
205 Playhouse Corner
Southbury CT 06488

Attention: Mr. Michael Bartos, Jr.

Sample ID#: AD08340-41

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

This report, starting with the cover sheet ending with the chain of custody, consists of 6 pages.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

524.2 @ 4 NORWICH
SAMPLED 1.3.01

CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
NY Lab Registration #11301
RI Lab Registration #63
NH Lab Registration #213693-A,B
ME Lab Registration #CT-007

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 419 Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 09, 2001

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		01/03/01	0:00
Location Code:	LANDTECH	Received by:	SW	01/04/01	11:40
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: EAST HADDAM JOB# E00199-04 Phoenix I.D. AD08340

Parameter	Result	RL	Units	Date	Time	by	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,1,1-Trichloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,1,2-Trichloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,1-Dichlorethene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,1-Dichloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,1-Dichloropropene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2,3-Trichlorobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2,3-Trichloropropane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2,4-Trichlorobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2,4-Trimethylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2-Dibromo-3-chloropropane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2-Dibromoethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2-Dichlorobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2-Dichloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2-Dichloropropane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,3,5-Trimethylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,3-Dichlorobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,3-Dichloropropane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2

Client ID: EAST HADDAM JOB# E00199-04 Phoenix I.D. AD08340

Parameter	Result	RL	Units	Date	Time	by	Reference
1,4-Dichlorobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
2,2-Dichloropropane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
2-Butanone	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
2-Chlorotoluene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
4-Chlorotoluene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
4-Isopropyltoluene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Benzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Bromobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Bromochloromethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Bromodichloromethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Bromoform	0.9	0.5	ug/L	01/07/01	8:56	RM	524.2
Bromomethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Carbon Tetrachloride	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Chlorobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Chloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Chloroform	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Chloromethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
cis-1,2-Dichloroethene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
cis-1,3-Dichloropropene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Dibromochloromethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Dibromomethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Dichlorodifluoromethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Ethylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Hexachlorobutadiene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Isopropylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Methyl Tert Butyl Ether	ND	1.0	ug/L	01/07/01	8:56	RM	524.2
Methylene Chloride	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
n-Butylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Napthalene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
o-Xylene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
p- and m- Xylene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Propylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
sec-Butylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Styrene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
tert-Butylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Tetrachloroethylene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2

Client ID: EAST HADDAM JOB# E00199-04 Phoenix I.D. AD08340

Parameter	Result	RL	Units	Date	Time	by	Reference
Toluene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Total Trihalomethanes (TTHM)	0.9	0.5	ug/L	01/07/01	8:56	RM	524.2
trans-1,2-Dichloroethene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
trans-1,3-Dichloropropene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Trichloroethylene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Trichlorofluoromethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Vinyl Chloride	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
%4-Bromofluorobenzene (Surrogate)	74		%	01/07/01	8:56	RM	524.2

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
January 09, 2001

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

QC Report

AD08341 January 09, 2001

Sample ID *AD08341*

Analysis: **Volatiles (MS) Analysis QC** *AD08341*

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative %Diff (%D)
Benzene	100%	97%	3%
Chlorobenzene	112%	112%	0%
1,1-Dichloroethylene	102%	97%	5%
Toluene	106%	102%	4%
Trichloroethylene	98%	92%	6%

No analytes were detected in the applicable method blanks above the stated detection limits with the following exceptions:

(NONE)

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller
Laboratory Director

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

QC Report

AD08341 January 09, 2001

Sample ID AD08341

Analysis: **Volatiles (MS) Analysis QC** *AD08341*

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative %Diff (%D)
Benzene	100%	97%	3%
Chlorobenzene	112%	112%	0%
1,1-Dichloroethylene	102%	97%	5%
Toluene	106%	102%	4%
Trichloroethylene	98%	92%	6%

No analytes were detected in the applicable method blanks above the stated detection limits with the following exceptions:

(NONE)

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller
Laboratory Director

letter of transmittal

LAND-TECH CONSULTANTS, INC.
ENVIRONMENTAL SCIENTISTS AND ENGINEERS
205 PLAYHOUSE CORNER/SOUTHBURY, CT 06488
TEL: 203-264-8300 FAX: 203-264-5995

DATE: 1/3/01
JOB NO.: E00199-04
ATTENTION: Bobbi P.
RE: East Haddam

TO: Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via overnight the following items:

☐ Shop Drawings ☐ Prints ☐ Plans ☐ Copy of Letter ☐

COPIES	DATE	DESCRIPTION
2	10/28/00	40-mL glass vials of drinking water identified as sample "4 NORWICH"

THESE ARE TRANSMITTED as checked below:

☐ For approval ☒ For your use ☐ As requested
☐ For review and comment ☐ Prints returned after loan to us ☐

REMARKS:
Please test by Method 524.2

AD 0830
0831 QC

COPY TO:

SIGNED Michael J Bartos

Michael J. Bartos, Jr., PE

2 VOA vials

1°C

1-4-01 11:40

Appendix G

1991 DEP Spill Report

Common Identifier: _____

CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT, OIL AND CHEMICAL SPILL RESPONSE DIVISION
EMERGENCY INCIDENT REPORT FORM

CASE NO. 89 ASSIGNED TO: 934C

DATE: 10/1-1991-91/1 TIME: (Military) 15:30 TOWN: EAST HADDAM

REPORTED BY FRANK BARTOLOMEO TELEPHONE: Business ( ) 566-4630 Home ( ) - _____

Representing: CT DEP

Street 1820 TRINITY Town Hartford State _____ Zip Code _____

INCIDENT LOCATION: E. HADDAM TOWN HALL, RT 82, E. HADDAM, NEAR GOODSPEED
Street TOWN GARAGE Town Pole No.

TYPE OF INCIDENT: LONGITUDE READING: _____ LATITUDE READING: _____ G.I.S. _____

☑ Petroleum ☐ Chemical ☐ Dielect ☐ Gaseous ☐ Hazardous Waste ☐ Sewage related ☐ Biomedical ☐ Algae ☐ Other _____

DISCHARGE SUBSTANCE: Gasoline

QUANTITY: UNK gallon(s) | cubic yards | cubic feet | lb(s) | concentration | drum(s)

If this is a chemical release does this incident constitute a SARA 304 Release? ☐ Yes ☐ No If yes, then you must obtain the following additional information:

☐ SARA 304 Release - Extremely Hazardous Substance ☐ CERCLA Hazardous Substance Federal exceeding R.Q. ☐ Cross property line ☐ Protective actions have been taken

R.Q. #'s: _____ Total lb(s) _____ lb(s)

SARA Title III: Describe Protective actions and provide medical information:

DATE OF SPILL: Month / Date / Year ☒ unknown ☐ on-going Release TIME OF SPILL: _____ (Military Time)

HAS THE RELEASE BEEN TERMINATED? ☐ Yes ☐ No ☐ on-going ☐ unknown HAS THE RELEASE BEEN CONTAINED? ☐ Yes ☐ No ☐ no decision

Misc. Info: TANK B-1 ON SKETCH LEAKED (TANK IN FRONT) ABANDONED IMPROPERLY - JUST LEFT IN GROUND & REPLACED WITH ABOVE GROUND TANK.

WATER BODY: GROUND WATER ☐ River ☐ L.I.S. ☐ Tributary ☐ Catch Basin/Storm drain ☐ Pond

MEDIA: ☐ air ☐ surface water ☐ ground water ☐ ground surface ☐ inside building ☐ other _____

TOTAL IN WATER: UNK. approximated gallons TOTAL RECOVERED FROM WATER: _____

QUANTITY RECOVERED: _____ POLLUTER NAME: TOWN OF E. HADDAM

Polluter Mailing Address Phone

POLLUTER ACCEPTS FINANCIAL RESPONSIBILITY? ☐ Yes ☐ No ☐ unknown ☐ polluter unknown

CLEAN-UP ACTIONS BEING TAKEN: _____

AGENCIES NOTIFIED: ☐ EPA-LEXINGTON ☐ U.S. COAST GUARD Captain of the Port US ☐ LOCAL FIRE MARSHAL ☐ LOCAL FIRE ☐ LOCAL POLICE ☐ Other _____

☐ AQUACULTURE ☐ STATE D.O.H.S. ☐ DEP/EQ/WATER ☐ DEP/EQ/AIR ☒ DEP/EQ/WASTE ☐ WEED/HW ☐ WEED/SW ☐ PMD ☐ UST ☐ SRCD ☐ DEP/AIR
☐ DEP/EC ☐ P&F ☐ F&W ☐ OPS ☐ OTHER _____ State Agencies: _____

DATE OF NOTIFICATION: Month / Date / Year TIME OF NOTIFICATION: _____ (Military Time)

DISCHARGE CLASS:

1 ☐ Unknown 4 ☐ Industrial 7 ☐ Private 10 ☐ Utility
2 ☐ Marine Terminal 5 ☐ Transportation 8 ☐ Vessel 11 ☐ Natural
3 ☐ Inland Terminal 6 ☒ Governmental 9 ☐ Commercial 12 ☐ Other _____

CAUSE OF INCIDENT:

1 ☐ Unknown 7 ☐ Cargo Tank Failure 13 ☐ Fire 19 ☐ Sinking 25 ☐ Road Oiling/Repair
2 ☐ Hose Failure 8 ☐ Fuel Tank Failure 14 ☐ Power Failure 20 ☐ Seepage 26 ☐ Motor Vehicle accident
3 ☒ Transfer Line Failure 9 ☐ Hull Fracture 15 ☐ Pump Failure 21 ☐ Pumping Bilge 27 ☐ Trans./Capacitor
4 ☐ Inground Tank Failure 10 ☐ Overfill 16 ☐ Pumping 22 ☐ Open Hatch 28 ☐ Natural
5 ☐ Above Ground Tank Failure 11 ☐ Container Failure 17 ☐ Dumping 23 ☐ Vandalism 29 ☐ Leaking UST Report
6 ☐ Saddle Tank Failure 12 ☐ Valve Failure 18 ☐ Illegal Discharge 24 ☐ Blow Back 30 ☐ Other: _____

CORRECTIVE ACTIONS TAKEN:

1 ☐ None	8 ☐ Dissipated	15 ☐ Pumped Out	22 ☐ Soil Removal
2 ☐ None required	9 ☐ Evaporated	16 ☐ Neutralized	23 ☐ UST Enforcement
3 ☐ Unknown	10 ☐ Sanded	17 ☐ Recovery System	24 ☐ Other: _____
4 ☐ Removed	11 ☐ Foamed	18 ☐ Repaired Line	
5 ☐ Contained/Remove	12 ☐ Referred	19 ☐ Repaired Tank	
6 ☐ Contracted	13 ☐ Cleaned	20 ☐ Dispersed	
7 ☐ Test Wells	14 ☐ Washed Down	21 ☐ Removed Tank	

☐ CLEAN-UP CONTRACTOR(S): _____ DID DEP HIRE CLEAN-UP CONTRACTOR(S): ☐ Yes ☐ No DATE: _____

Requested: _____ Arrived: ____:____ (Military Time)

RECEIVED BY: 902 INSPECTOR ASSIGNED: 934

DATE ASSIGNED: 01 (Month) 1-1 01 (Day) 91-1 91 (Year) TIME ASSIGNED: 1630 (Military Time)

ESTIMATED TIME OF ARRIVAL: _____ STATUS: ☐ Open ☐ Closed ☐ Monitored

LEAKING UNDERGROUND STORAGE TANK REPORT SECTION *(for administrative use only)*

Tank Sizes	Leak	Type of Product	Emergency	Overfill	Removal	Tank	Piping	Remediation	Complete	Referral
	☐		☐	☐	☐	☐	☐	☐	☐	☐
	☐		☐	☐	☐	☐	☐	☐	☐	☐
	☐		☐	☐	☐	☐	☐	☐	☐	☐
	☐		☐	☐	☐	☐	☐	☐	☐	☐
	☐		☐	☐	☐	☐	☐	☐	☐	☐
	☐		☐	☐	☐	☐	☐	☐	☐	☐

SUPPLEMENTAL INFORMATION

1. If this is a chemical release and was not reported by 911 emergency response system, does this release require a Notification be sent per Public Act 90-276? ☐ Yes ☐ No

2. Status of notification ☐ sent 3. Is this an 1136 case? ☐ Yes ☐ No 4. 1136 Case No. _____ 5. Is this a Federal 311K case? ☐ Yes ☐ No 6. PIN _____

7. Has the Cost Recovery Expenditure Summary been initated? ☐ Yes ☐ No 8. Incident Code ☐

PROPERTY OWNER: ☐ State ☐ Municipal ☐ Corporation ☐ Private ☐ Federal ☐ Unknown

POLLUTER: ☐ Truck ☐ Trailer ☐ Owner _____ ☐ Operator _____

VEHICLE IDENTIFICATION: MAKE _____ MODEL _____ REGISTRATION _____ OWNER OF VEHICLE _____

ADDITIONAL INFORMATION: Tanks abandoned because they are over 20 years of age. First Selectman attempting to obtain funds to remove tanks. Tab referred to UST 1-11-91 because tanks are improperly abandoned.

☐ ☐

HAS THIS REPORT BEEN UPDATED WITH THE INSPECTOR'S REPORT? No Yes Date: _____

INTERDEPARTMENTAL MESSAGE

STO-201 REV. 7-86
Stock No. 6938-051-01)

STATE OF CONNECTICUT

Obtain "STATE EMPLOYEE SUGGESTION" forms from, and send your ideas to: Employee's Suggestion Awards Program, 165 Capitol Avenue Hartford, Ct, 06106.

To	NAME, TITLE: James Gilbert	DATE: 1-11-91
	AGENCY, ADDRESS: UST	
From	NAME, TITLE: MATT WILLIAMSON.	TELEPHONE:
	AGENCY, ADDRESS:	

Subject: EAST HADDAM HIGHWAY (TOWN) GARAGE
RT 82
EAST HADDAM.

On 1-10-91 I conducted an investigation on the above property. AN ANONYMOUS complaint noted improperly Abandoned (leaking) underground storage tanks. I met with John Blaschik Jr. the towns First Selectman. who informed me the town abandoned 3 UST's on the property approx. 7-89. Eventually these tanks are to be removed as the town is moving the Garage to a New locations. These tanks are long past the 90 day out of service and I feel must be removed immediately. I feel A N.O.V. from the UST Program may push the town into performing this.

Direct NOV to John Blaschik Jr
Town Office Bldg.
East Haddam, CT

Thanks.
Matt Williamson

Shanahan Consulting
36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

PHASE II & PHASE III ENVIRONMENTAL SITE ASSESSMENT AND REMEDIAL ACTIONS AT PROPERTIES AT 1 & 7 MAIN STREET

East Haddam, Connecticut

JUNE 2005

Prepared for:

Town of East Haddam
East Haddam, Connecticut

Prepared by:

Shanahan Consulting
Farmington, Connecticut
Document No. 0417R01.WPD

SIGNATURE OF ASSESSOR

This assessment was performed by the individual whose signature appears below. Questions regarding this report should be directed to this person.

Edward W. [Ned] Shanahan, LEP
Senior Scientist

QUALIFICATIONS OF ASSESSOR

Edward W. Shanahan has over 25 years experience as an environmental consultant, including more than 19 years focusing on site assessments and related studies in Connecticut. Mr. Shanahan has evaluated environmental conditions on hundreds of properties, ranging from undeveloped lots to complex industrial facilities. For six years, he managed the completion of site assessments at Haley & Aldrich Inc. (1986-89) and Ground Water, Inc. (1989-92). In December 1992, he founded Shanahan Consulting, a firm specializing in site assessments and reviews of site assessments.

Mr. Shanahan received a Bachelor of Science degree with distinction in Civil & Environmental Engineering from Cornell University in 1973 and a Master of Science degree in Environmental Earth Sciences from Stanford University in 1974.

Mr. Shanahan is a Licensed Environmental Professional [LEP] in the State of Connecticut.

FIGURES

Figure 1 - Site Location Map

Figure 2 - Site Plan

Figure 3 - Western Part of Site

Figure 4 - Eastern Part of Site

Figure 5 - Explorations Under Garage

Figure 6 - Overburden Ground Water Flow

Figure 7 - Underground Tank Removal West of Garage

Figure 8 - Underground Tank Remediation East of Garage

Figure 9 - Remediation of Area of Blue Residue

APPENDICES

Appendix A - Logs and Construction Diagrams for Monitor Wells MW1-MW3

Appendix B - Land-Tech Soil and Ground Water Test Data

Appendix C - Laboratory Test Data for Tank Removals and Soil Remediation

Appendix D - Records of Waste Soil Disposal

Appendix E - Soil Gas Survey by Hygenix, Inc.

Appendix F - Boring Logs and Monitor Well Diagrams

Appendix G - Soil Test Screening Data

Appendix H - Results of Laboratory Tests of Soil Samples

Appendix I - Results of Laboratory Tests of Ground Water Samples

TABLE OF CONTENTS

Page

I. SUMMARY 1

II. BACKGROUND INFORMATION 2
- A. Purpose
- B. Scope of Work
- C. Site Description
- D. Previous Explorations and Testing
- E. Potential Areas of Concern

III. UNDERGROUND TANK REMOVALS AND INITIAL SOIL REMEDIATION 7
- A. Explorations for Underground Tanks
- B. Removal of Underground Tanks
- C. Soil Remediation by Underground Systems

IV. SOIL GAS SURVEY 16
- A. Description of Survey
- B. Survey Results

V. GROUND WATER FLOW EVALUATION 18

VI. DRILLING PROGRAM 20
- A. Test Borings and Monitor Wells
- B. Soil Sampling
- C. Ground Water Sampling

VII. CHEMICAL TESTING DATA 23
- A. Test Screening of Soils
- B. Description of Laboratory Tests of Soil and Ground Water Samples
- C. Results of Laboratory Analyses of Soil
- D. Results of Laboratory Analyses of Ground Water

VIII. SUPPLEMENTAL SOIL REMEDIATION 36
- A. Soil Removal in Area of Blue Residue
- B. Supplemental Removal of Arsenic-Containing Soils East of Garage
- C. Disposal of Waste Soils Generated During Supplemental Soil Removal Effort
- D. Additional Explorations and Testing to Evaluate Remnant Arsenic Contamination

IX. CONCLUSIONS AND RECOMMENDATIONS 43
- A. Likelihood of Subsurface Contamination on Site
- B. Ground Water Classification and Use
- C. Future Actions

X. LIMITATIONS 48

SOURCES OF INFORMATION 49

I. SUMMARY

Our Phase II & Phase III Site Assessment and Remedial Actions at 1 & 7 Main Street in East Haddam included the removal of three underground tanks, the excavation and removal of approximately 367 tons of contaminated soils, the drilling of 39 soil borings, the installation of six ground water monitor wells (supplementing three monitor wells installed by others), the measurement of volatile organic compounds [VOCs] in soil gas under the garage building, and the laboratory testing of numerous soil and ground water samples.

An inactive heating oil tank and an inactive gasoline tank, located outside the eastern wall of the garage building, were removed in 2002, along with approximately 121 tons of petroleum-contaminated soils. Post excavation soil samples revealed the presence of remnant arsenic soil contamination in the gasoline tank cleanup area and in the summer of 2004 approximately 180 tons of additional soils were removed. The soil removal effort was halted in part because of the presence of an underground sanitary sewer line. We estimate that an additional 100 tons of arsenic-contaminated soils may remain in the area between a depth interval of approximately 3 and 6 feet below the ground surface. Our tests suggest that the arsenic-contaminated soils do not pose a significant risk of ground water contamination. The excavation and removal of the arsenic-contaminated soils does not appear to be necessary at this time. Future plans for the redevelopment of the site should consider whether the contaminated soils will be covered by a new building or whether the soils should be excavated and removed during construction work.

A blue residue of unknown origin was observed on the ground surface behind the town hall. Approximately 65 tons of soils containing elevated concentrations of metals were excavated and removed from the area to address the residue.

We did not identify other areas where soil removal was necessary to meet remediation criteria. An apparent minor spill of a petroleum product was detected under the floor of the garage and a petroleum odor was noted in a soil sample collected from a gasoline tank grave adjacent to the southwestern corner of the garage, but laboratory tests of several soil samples from these two areas did not reveal exceedances of remediation criteria.

We did not directly evaluate an underground diesel fuel tank located on a portion of the site subject to a perpetual easement granted to the State of Connecticut.

Although local ground water is classified "GB" (degraded), our tests indicate that site ground water exhibits generally good quality. We did not detect VOCs or Extractable Total Petroleum Hydrocarbons [ETPH] in several overburden ground water samples, suggesting that the use of fuels and petroleum products on the site has not significantly degraded ground water. Chloroform was detected at trace concentrations (0.6 and 1.0 ug/L) in two bedrock ground water samples. The source of the chloroform is not known, but this compound can be introduced into water samples during sample collection or laboratory analysis. The absence of chloroform in overburden monitor wells suggests that chloroform has not been spilled on site. Unfiltered ground water samples contained elevated concentrations of metals, likely due to the presence of silt in the samples and probably not associated with ground water contamination. Low flow sampling should be performed to further evaluate the metal detections in the unfiltered samples.

The site appears to be an "establishment" under the Connecticut Transfer Act.

A long-term ground water monitoring may be necessary if the site is transferred under the Connecticut Transfer Act. However, we do not believe that the initiation of a full monitoring program prior to a transfer is warranted. At this time, we recommend that one round of ground water samples be collected from the monitor well network for laboratory testing. After future plans for the site have been finalized, then a more complete ground water testing program may be necessary.

II. BACKGROUND INFORMATION

A. Purpose

This Phase II & Phase III Environmental Site Assessment and Remedial Actions report evaluates the risk of subsurface contamination involving hazardous wastes and hazardous substances at 1 & 7 Main Street in East Haddam. The site was the subject of a March 2002 Phase I Environmental Site Assessment report prepared by Shanahan Consulting.

B. Scope of Work

The following tasks were performed for this investigation:

1. The completion of a magnetometer survey to explore for underground tanks.
2. The excavation and removal of three underground tanks (by a tank removal contractor).
3. The excavation and removal of petroleum-contaminated soils detected at two underground tanks, metal-contaminated soils in an area where a blue residue was observed on the ground surface behind town hall, and arsenic-contaminated soils located east of the garage.
4. The completion of a soil gas survey under the floor of the garage building.
5. The drilling of 39 soil borings.
6. The collection of soil samples from the borings, from the blue residue disposal area, and from a drainage ditch in the southwestern part of the site.
7. The test screening of soil samples with a photoionization detector [PID].
8. The collection of ground water samples from six monitor wells and from a supply well.
9. The preparation of an overburden ground water contour map.
10. Laboratory analyses of ground water samples and selected soil samples.

C. Site Description

The approximately 2.75-acre site consists of the following two adjoining properties: (1) 1 Main Street - a 1.56-acre property designated Lot 14 on Map 17 by the East Haddam assessor's office and (2) 7 Main Street - a 1.19-acre property designated as Lot 15 on Map 17.

Figure 1 shows the location of the site. A site plan is shown on Figure 2. Figures 3 and 4 present more detailed views of site features and the locations of explorations performed for this assessment. Figure 5 presents explorations performed under the garage building. Figure 6 presents an overburden ground water contour map. Figure 7 depicts the area of an underground tank removal west of the garage, while Figure 8 shows tank removals performed east of the garage. Figure 9 presents the extent of soil remediation performed to address a blue residue on the ground surface in the eastern part of the site.

The site includes the following four buildings: (1) the former garage of the Town of East Haddam Department of Public Works [DPW] now largely vacant, (2) the "River House" office building (including offices of the Town of East Haddam), (3) the Connecticut Department of Transportation [DOT] generator house used in connection with their maintenance of a nearby off-site drawbridge over the Connecticut River, and (4) the East Haddam town hall.

The one-story garage building was constructed in stages from circa 1911 to circa 1950 and was initially used by the DOT for maintenance operations for the nearby drawbridge. Sanborn Fire Insurance Maps document various operations in the DOT bridge maintenance facility including: a blacksmith shop, a paint shop, and a machine shop. Beginning in 1973, the garage was used by the Town of East Haddam DPW for their maintenance and storage operations. The DPW vacated the building in 2000. In late 2002, the northern portion of the garage building and an adjoining shed were torn down.

The two-story River House was erected in circa 1911 as a residence. Since 1973, the building has been occupied by offices.

The DOT generator house is located on a 0.098-acre perpetual easement ceded by the town to the State of Connecticut. The generator house was erected in the mid 1980s and replaced a previous power house located adjacent to and west of the current building.

The town hall building was erected as a residence prior to 1874 and the property was used for residential purposes until circa 1936. From circa 1936 to 1938, a bank apparently occupied the former residence. From circa 1939 to 1957, a lumber company operated an office in the town hall building and used a rear building and adjoining shed for storage. Town offices began to occupy a portion of the former residence beginning in 1939 and have fully occupied the building since1957.

A storage building and shed north of the town hall were torn down in late 2002.

The site appears to be an "establishment" under the Transfer Act (CGS 22a-134 through 134e). A variety of wastes were removed from the site in January 2000 by the Town of East Haddam including approximately 1297 kilograms of RCRA-regulated hazardous wastes (unused toluene, paint-related wastes, unused 2,4-D salt, waste flammable solvents, waste corrosive liquid) and approximately 197 gallons of non-hazardous wastes (waste motor oil, unused No. 6 heating oil, and detergent). The wastes, which had reportedly accumulated over a period of at least 12 years, were removed from both the garage at 1 Main Street and from the storage building at 7 Main Street. In our March 2002 Phase I report, we had concluded that the property at 1 Main Street was an establishment, but that property at 7 Main Street might not be an establishment because we believed that hazardous wastes were not generated at 7 Main Street. However, additional information provided since the Phase I report was completed indicates that the January 2000 waste shipment included wastes generated at both 1 and 7 Main Street and that the quantities of wastes generated at each location are somewhat uncertain. We have therefore concluded that the entire site (both properties) may be regulated under the Transfer Act.

Local ground water is classified "GB" (known or presumed to be degraded). In spite of the "GB" classification, the site uses a bedrock supply well located west of the garage building. Reportedly, site occupants use bottled water and do not consume the well water.

Public water is not available in the site area and off-site properties generally use individual supply wells. We did not identify public drinking water supply wells within one mile of the site. The site is not shown in Aquifer Protection Areas mapped by the Connecticut Department of Environmental Protection [DEP].

D. Previous Explorations and Testing

As part of a Phase II Environmental Site Assessment that was never completed (we were provided with an unfinished draft report dated 12 December 2000), Land-Tech Consultants, Inc. [Land-Tech] installed bedrock monitor wells MW1 and MW2 and overburden well MW3 on the site. MW1 is located south of the River House in an area where possible contamination was reported during excavation work performed by the town. MW2 was installed near the grave of a former underground gasoline tank outside the southwestern corner of the garage building. MW3 is situated adjacent to the grave of a former underground gasoline tank behind town hall. Appendix A presents driller's logs and well construction diagrams for MW1, MW2, and MW3.

Land-Tech tested soil samples collected from a depth of 5-7 feet at both MW2 and MW3 for Total Petroleum Hydrocarbons [TPH] by EPA Method 418.1, for volatile organic compounds [VOCs] by Method 8260, and for eight RCRA metals by mass analysis and TCLP methods. Appendix B presents the results of the MW2 and MW3 soil tests. VOCs and TCLP metals were not detected in the soil samples. TPH was detected at 200 mg/kg in the MW2 soil sample and at 54 mg/kg in the MW3 soil sample. Relatively low concentrations of several metals (by mass analysis methods) were reported in the soil samples. The concentrations of TPH and metals did not exceed applicable remediation criteria established by the Connecticut DEP (as set forth in the Remediation Standard Regulations [RSRs]).

Land-Tech collected ground water samples from MW1, MW2, and MW3 on 9 August 2000 for analysis for TPH, eight RCRA metals (analysis of unfiltered samples for total metals), and VOCs by EPA Method 8260. In addition, on 15 November 2000, Land-Tech sampled ground water from the three monitor wells for analysis for pesticides. The results of the Land-Tech ground water tests are presented in Appendix B and are discussed later in this report.

E. Potential Areas of Concern

Our March 2002 Phase I Site Assessment and subsequent observations of the site identified the following potential areas of concern with regards to subsurface contamination:

1. A vent pipe for a possible former underground heating oil tank attached to the southwestern corner of the storage building behind the town hall. The fate of the possible underground tank was not reported. The tank location was further evaluated, as is discussed later in this report.

2. A former 1000-gallon underground gasoline tank located outside the southern end of a former shed behind town hall at 7 Main Street. The tank was reportedly removed by the town in January 2000. No soil samples were collected from the tank grave for laboratory testing.

3. A blue residue observed on the ground surface outside the northern wall of the former storage building behind the town hall.

4. An inactive 1000-gallon underground gasoline tank and adjacent pump pad located outside the eastern wall of the garage building at 1 Main Street.

5. A former 275-gallon aboveground heating oil tank located outside the eastern wall of the garage, just north of the inactive underground gasoline tank (Item No 5). The aboveground tank was replaced by an indoor tank.

6. An inactive 1000-gallon underground heating oil tank outside the eastern wall of the garage.

7. A "pump" shown on a 1932 highway right of way map in the southeastern corner of the property. The purpose of the pump is unknown. The 1932 map does label another pump outside the garage as a "gas pump" suggesting that the unknown southeastern pump was not used to dispense gasoline.

8. An inactive septic system located in front of the River House at 7 Main Street and formerly used by the River House and the garage building. The septic system may have received floor drainage discharges from the garage. Land-Tech reported that town workers performing excavation work in the general area of the septic system had reported possible subsurface contamination. The septic system was installed in 1971. Prior to 1971, sanitary wastes from the property were apparently discharged directly to the Connecticut River.

9. An inactive 500-gallon underground gasoline tank and a former 550-gallon aboveground gasoline tank, located in the same general area west of the garage building on the edge of the paved parking lot and driveway. An underground gasoline tank was shown at this location on a 1925 Sanborn Fire Insurance Map. The aboveground tank was reportedly placed in the area in 1989 and was removed in the mid 1990s. We observed no surface evidence of spills associated with the former aboveground tank.

10. An approximately 10 foot by 10 foot pavement patch adjacent to the southwestern corner of the garage building that was the reported former location of a former underground gasoline tank and adjacent pump. The tank was apparently either 1000 gallons or 2000 gallons in capacity and was removed by the town sometime after 1991. No soil samples were reportedly collected at the time of the tank removal. An underground gasoline tank and/or pump had been shown at this location as early as 1935 (on a Sanborn Fire Insurance Map).

11. A 300-gallon underground diesel fuel tank installed in 2001 by the DOT to fuel an emergency generator. A DOT employee reported that the tank is of double containment design, includes two vapor monitoring wells adjacent to the two ends of the tank and a gauge inside the building, and was installed on top of a shallow bedrock ledge.

12. Floor drainage systems in the garage building. The floor drains were reportedly cleaned and sealed in August 2000. In our Phase I Site Assessment report, we observed evidence of three floor drains in the building as follows: one drain in the central part of the building and two drains in the southern part. In their previous site evaluation, Land-Tech verbally reported a fourth drain in the northern part of the garage building. Since the Phase I work, we have been able to view the garage floor more closely (carpeting and stored items have been removed) and we now believe that the following drains are located in the garage: two drains in the southern part and two drains in the central part (not one as was previously reported). We observed no evidence of a drain in the floor of the recently-demolished northern end of the building (the floor slab was not removed during the demolition work).

    The southern drains apparently discharged to a buried dry well outside the eastern wall of the garage (the dry well was uncovered during recent underground tank removals that are discussed later in this report). Land-Tech reported that the central garage drainage system flowed to catch basins west of the garage which then discharged to the Connecticut River via an open paved ditch in the southwestern part of the site. Land-Tech also reported that the northern drain (which we did not find) flowed to the west and may have discharged to the Connecticut River or to the septic system.

    Since the data on the central and northern floor drainage systems are uncertain, we have assumed that one or more of these drains may have discharged: (1) via an underground pipe directly to the Connecticut River, (2) to the Connecticut River via the storm drainage system and the open ditch, or (3) to the now-inactive septic system.

13. Areas under the garage floor. Our research indicates that the garage was built in stages as follows: (1) northern part erected in circa 1930, (2) western half (approximately)of central part erected in circa 1911, (3) eastern half (approximately) of central part erected in circa 1950, and (4) southern part erected in circa 1911. The area now covered by the eastern half of the central garage area (built in circa 1950) was formerly occupied by a small storehouse and a blacksmith shop. During our Phase I Site Assessment, we observed two 275-gallon aboveground heating oil tanks in the northern part of the garage (one tank was in use while the other tank was inactive and apparently empty). We observed no signs of leakage from the indoor tanks. Two 55-gallon drums of unknown contents were observed in the central part of the garage during our Phase I Site Assessment. The sealed drums were in excellent condition and no leakage was evident. We observed an inactive oil feed line in the floor in the western end of the northern garage area. A few scattered stains noted on the floor the building did not appear to represent significant contamination risks.

    Soil under the garage floor could be contaminated by: leakage at floor drains, leakage from the oil line under the northern floor, interior spills that penetrated the floor, or by the dumping of wastes onto the former ground surface now covered by the eastern half of the central garage area.

14. An aboveground waste oil tank with a reported built-in containment area formerly located near the western edge of the site. The tank was reportedly used by the East Haddam DPW. During our Phase I Site Assessment, we did not observe evidence of surface spills in the reported area of the tank. Given the absence of apparent spills and the reported containment design of the tank, we did not believe that further evaluation of the tank location was warranted.

15. An inactive septic system that served the town hall office building prior to its connection to the public sanitary sewer system in 1999. Given the reported use of the town hall building by offices, we did not expect that the former septic system received petroleum product or chemical waste discharges. We therefore concluded that further evaluation of the septic system was not warranted.

16 A 275-gallon aboveground heating oil tank observed outside the southwestern corner of the former storage building behind the town hall at 7 Main Street. During our Phase I Site Assessment, we did not observe evidence of spills from the tank and we concluded that further evaluation of the tank was not warranted. The tank was removed when the rear storage building was demolished.

III. UNDERGROUND TANK REMOVALS AND INITIAL SOIL REMEDIATION

A. Explorations for Underground Tanks

On 13 June 2002, Long Thai of Hygenix, Inc. of Stamford, Connecticut (working as a subcontractor to Shanahan Consulting) performed a magnetometer survey around the River House, the garage building, and the storage building behind town hall (since demolished) to search for possible underground tanks. Possible magnetic detections were noted in the following four areas: (1) MD1- on the edge of the paved area west of the garage building, (2) MD2 - in the lawn south of the River House, (3) MD3 - several responses in the gravel parking area north of the storage building, and (4) MD4 - a weak response outside the southwest corner of the storage building ay 1 Main Street.

A suspected filler pipe (filled with soil) for an inactive underground fuel tank was observed in the area of MD1. A 1925 Sanborn Fire Insurance Map had shown an underground gasoline tank in the area of the filler. A metal probe was driven into the filler pipe to a depth of approximately 3 feet. When withdrawn, the probe appeared to exhibit a petroleum odor. MD1 was later confirmed to be an inactive gasoline tank located on the edge of the paved area west of the garage building (the tank was subsequently removed as is discussed later in this report).

Excavation with a hand shovel in the area of MD2 revealed the cover of an inactive septic tank at a depth of approximately 1½ feet. The lid of the tank included a metal re-bar that apparently triggered the magnetic response.

Magnetic responses recorded in the rear gravel parking lot were attributed to the presence of several small metal parts observed on the ground and no further investigation of these detections was warranted. However, we did evaluate a magnetic detection just outside the northeast corner of the storage building (labeled MD3 on Figure 4), because this location appeared to represent a possible underground tank position. A probe bar was driven into the ground at the suspect tank location to a depth of 3 feet and no evidence of a tank was encountered (e.g. no probe refusal on top of tank, no petroleum odor on withdrawn probe). In addition, no vent or fill pipes were seen in the area.

The weak magnetic response observed outside the southwest corner of the storage building (MD4) was considered suspicious due to the presence of an apparent underground tank vent pipe of unknown purpose on this corner of the building. We suspected that the vent pipe served a former or current underground heating oil tank because an inactive oil-fired furnace was located in the southwestern part of the building. The magnetometer response in the area was quite weak, suggesting that if an underground tank were present, it would be too deep to reach with a metal probe. To further evaluate the possible buried tank, on 27 June 2002, Underground Systems of Simsbury, Connecticut [an underground tank removal contractor] excavated with a backhoe in the area of the magnetic response. A buried warning tape for an underlying sanitary sewer line (later reported to be serving an off-site home north of the site) was encountered by the backhoe. The warning tape apparently triggered the low magnetometer reading. On 28 June 2002, Underground Systems excavated with a hand shovel to expose the buried portion of the vent pipe beside the storage building. The pipe was cut at depth and a measuring tape was extended into the line to determine its point of origin. The tape measurement indicated that the pipe extended horizontally at depth to a position approximately 20 feet to the southwest (near the western boundary of the site). Excavation with a backhoe at the termination point of the buried vent line revealed only the open end of the vent line and no evidence of an underground tank. We concluded that an underground heating oil tank may have been present in the area, but had been removed at some unknown date. No release of petroleum product was noted in the test pit dug where the line ended.

B. Removal of Underground Tanks

Our Phase I Site Assessment research and the magnetometer survey identified three inactive underground tanks remaining in the ground, as follow: (1) 500-gallon underground gasoline tank located west of garage building (referred to as MD1 above), (2) 1000-gallon underground gasoline tank outside eastern wall of garage, and (3) 1000-gallon underground heating oil tank outside eastern wall of garage.

On 27 & 28 June 2002, Underground Systems of Simsbury, Connecticut [a tank removal contractor] used an excavator to remove the three underground tanks. The tank removals were observed by Ned Shanahan of Shanahan Consulting. United Industrial Services emptied the three tanks of remnant liquid prior to their removals. Sand that had been placed in the gasoline tank east of the garage was also pumped out for off-site disposal. The empty tanks were removed by Underground Systems for off-site disposal.

Figure 7 shows the western tank grave and Figure 8 shows the two eastern tank graves and the locations of soil samples collected in connection with the tank removals and subsequent soil cleanups.

1. 500-Gallon Underground Gasoline Tank West of Garage

We observed no evidence of a release during the removal of the 500-gallon gasoline tank west of the garage, which appeared to be quite old (it was shown on a 1925 Sanborn Map). The tank contained remnant gasoline. The grave measured approximately 9½ feet long by 5 feet wide by 5½ feet deep (the depth was measured in reference to the ground surface on the north, south, and east sides of the grave; a one-foot-high retaining wall on the west side of the grave increased the relative depth to 6½ feet from this side of the grave). No ground water was observed in the tank grave.

Two metal pipes were observed to be exiting the grave to the south. One of the pipes was of short length and was removed by the excavator. The second pipe (of unknown purpose) could not be removed without endangering the retaining wall on the southern edge of the tank grave. We elected to explore in the area of the second pipe during our upcoming test boring program.

Ned Shanahan collected five samples of soil from the four sides (samples T1S1, T1S2, T1S3, T1S5) and the bottom of the tank grave (T1S4). The samples were kept chilled during transport to Connecticut Testing Laboratories, Inc. of Meriden for analysis for aromatic volatile organic compounds [VOCs] and MTBE by EPA Method 8021B and for lead (by mass analysis and by SPLP leaching method). The samples submitted for VOC analysis were preserved via Method 5035.

The laboratory test results are presented in Appendix C and are summarized in the table below.

WESTERN GASOLINE TANK GRAVE - SOIL TEST DATA
Concentrations as shown

SAMPLE	T1-S1	T1-S2	T1-S3	T1-S4	T1-S5	Pollutant Mobility Criteria	Direct Exposure Criteria	
DEPTH	5½'	5½'	5½'	6'	5½'		Residential	Commercial
AVOCs (mg/kg)	ND	ND	ND	ND	ND	Varies	Varies	Varies
Lead (mg/kg)	15.0	19.1	12.6	33.1	36.8	NA	500	1000
SPLP Lead (mg/l)	ND	0.006	ND	0.008	0.007	0.015	NA	NA

Notes for table:

1. ND means not detected. NA means remediation criteria not applicable to this analysis. AVOCs are aromatic volatile organic compounds and MTBE.
2. Pollutant Mobility Criteria and Direct Exposure Criteria are taken from the DEP Remediation Standard Regulations [C.G.S. Section 22a-133k]. Pollutant Mobility Criteria shown are applicable to a "GA" area. Although the site is classified "GB", overburden ground water is not expected in the area of the tank and "GA" criteria therefore apply.

The soil test data did not exceed applicable remediation criteria. The absence of aromatic VOCs in the samples appeared to confirm our field observations that the tank had not leaked.

2. 1000-Gallon Underground Gasoline Tank East of Garage

The 1000-gallon eastern gasoline tank included an adjacent concrete pad west of the tank that had apparently been used to support a former fuel pump. Surface soils around the pump pad, which was approximately 4 feet by 4 feet in size, were stained and odorous.

The tank grave measured approximately 9½ feet long by 4 feet wide by 5½ feet deep. No ground water was observed in the grave. Soils at depth near the southern end of the grave appeared to exhibit petroleum odors. Surface soils in the area (particularly near the pump pad) exhibited petroleum odors (apparently due to spills at the pump or during the re-fueling of the tank).

Ned Shanahan collected five samples of soil from the four sides (samples T2S1, T2S2, T2S3, T2S4) and the bottom (T2S5) of the tank grave. In addition, sample T2S6 was collected at a shallow depth (1-1½ feet) south of the pump pad. The five samples from the tank grave were tested at Connecticut Testing Laboratories, Inc. for aromatic VOCs and MTBE by EPA Method 8021B and for lead (by mass analysis and by SPLP leaching method). The surficial sample collected near the pump pad [T2-S6] was tested for aromatic and halogenated VOCs by EPA Method 8260, for Extractable Total Petroleum Hydrocarbons [ETPH], for eight RCRA metals [arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver] by both mass analysis and SPLP leaching methods, for PCBs, and for polynuclear aromatic hydrocarbons [PAHs] by EPA Method 8270. The more comprehensive testing of sample T2-S6 was performed to evaluate whether waste oils had been dumped on the ground near a rear pedestrian door to the garage.

The laboratory test results are presented in Appendix C and are summarized in the table below.

EASTERN GASOLINE TANK AREA - SOIL TEST DATA Concentrations as shown									
SAMPLE DEPTH	T2-S1 5½'	T2-S2 5½'	T2-S3 5½'	T2-S4 5½'	T2-S5 6'	T2-S6 1-1½'	Pollutant Mobility Criteria	Direct Exposure Criteria	
								Residential	Commercial
Ethyl benzene (mg/kg)	ND	ND	0.350	ND	ND	ND	10.1	500	1000
Xylenes (mg/kg)	ND	ND	4.902	ND	ND	ND	19.5	500	1000
ETPH (mg/kg)	---	---	---	---	---	12,343	2500	500	2500
PCBs (mg/kg)	---	---	---	---	---	ND	NA	1	10
PAHs	---	---	---	---	---	ND	Varies	Varies	Varies
Lead (mg/kg)	404	9.0	742	25.5	8.5	1140	NA	500	1000
SPLP Lead (mg/l)	ND	ND	0.083	ND	ND	0.15	0.15	NA	NA
Arsenic (mg/kg)	---	---	---	---	---	11.6	NA	10	10
SPLP Arsenic (mg/l)	---	---	---	---	---	ND	0.5	NA	NA
Barium (mg/kg)	---	---	---	---	---	68	NA	4700	140,000
SPLP Barium (mg/l)	---	---	---	---	---	ND	10	NA	NA
Cadmium (mg/kg)	---	---	---	---	---	2.7	NA	34	1000
SPLP Cadmium (mg/l)	---	---	---	---	---	ND	0.05	NA	NA
Chromium (mg/kg)	---	---	---	---	---	39.0	NA	3900	51,000
SPLP Chromium (mg/l)	---	---	---	---	---	ND	0.5	NA	NA
Mercury (mg/kg)	---	---	---	---	---	0.16	NA	20	610
SPLP Mercury (mg/l)	---	---	---	---	---	ND	0.02	NA	NA
Selenium (mg/kg)	---	---	---	---	---	ND	NA	340	10,000
SPLP Selenium (mg/l)	---	---	---	---	---	ND	0.5	NA	NA
Silver (mg/kg)	---	---	---	---	---	ND	NA	340	10,000
SPLP Silver (mg/l)	---	---	---	---	---	ND	0.36	NA	NA

Notes: 1. ND means not detected. — means sample not tested for this parameter. NA means remediation criteria not applicable to this analysis. AVOCs are aromatic volatile organic compounds.
2. Pollutant Mobility Criteria and Direct Exposure Criteria are taken from the DEP Remediation Standard Regulations [C.G.S. Section 22a-133k].
3. Test results exceeding remediation criteria have been highlighted with thick lines.

The soil test data revealed exceedances of soil remediation criteria in samples T2-S3 (from the southern end of the tank grave) and T2-S6 (shallow sample collected near the pump pad). The T2-S3 sample contained lead at 742 mg/kg which exceeds the 500 mg/kg residential Direct Exposure Criteria [DEC]. T2-S3 also contained gasoline VOCs (ethyl benzene and xylenes) at concentrations below applicable criteria. The surficial sample (T2-S6) contained the following contaminants in excess of remediation criteria: ETPH at 12,343 mg/kg (residential DEC at 500 mg/kg), lead at 1140 mg/kg (residential DEC at 500 mg/kg), and arsenic at 11.6 mg/kg (residential and commercial DEC at 10 mg/kg).

The grave was re-filled with the soil originally removed from the area, while arrangements were made to perform a soil remediation effort.

3. 1000-Gallon Underground Heating Oil Tank East of Garage

The 1000-gallon underground heating oil tank was located approximately 35 feet south of the eastern gasoline tank. The grave of the tank measured 12 feet long by 5 feet wide by 7 feet deep. Ground water was not observed in the grave. Soil at depth at the northern end of the grave appeared to exhibit petroleum odors and staining. In addition, surface soils around the fill pipe were stained and odorous.

During the removal of the tank, an apparent dry well serving floor drains in the southern end of the adjacent garage was encountered south of the tank grave. The dry well, which was removed from the ground, consisted of a short length of corrugated metal pipe (roughly 3 feet in diameter) buried to a depth of approximately 4 feet. An approximately 3-inch-diameter discharge pipe was observed to enter the dry well from the adjacent garage wall. No petroleum odors or staining were noted in the discharge pipe. A soil sample (DW1) was collected at the former location of the dry well at a depth of approximately 5 feet (approximately 1 foot below the base of the dry well).

Ned Shanahan collected seven samples of soil from the area as follows: (1) sample DW1 from below the dry well; (2) samples T3S1, T3S2, T3S3, and T3S4 from the sides of tank grave; (3) T3S5 from the bottom of the tank grave; and (4) T3S6 from the area of surface staining near the fill pipe. Each of the seven soil samples was tested for ETPH at the laboratory. Sample T3-S1, from the northern end of the grave where petroleum odors and staining were noted, was also tested for aromatic VOCs by Method 8021B and for PAHs by Method 8270. T3-S6 (consisting of odorous surface soils) and DW1 (collected below the dry well) were also tested for aromatic and halogenated VOCs by EPA Method 8260, for eight RCRA metals [arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver] by both mass analysis and SPLP leaching methods, for PCBs, and for polynuclear aromatic hydrocarbons [PAHs] by EPA Method 8270 to evaluate the possible presence of waste oil.

The laboratory test results are presented in Appendix C and are summarized in the table below.

HEATING OIL TANK AND DRY WELL - SOIL TEST DATA Concentrations as shown										
SAMPLE DEPTH	T3-S1 7'	T3-S2 7'	T3-S3 7'	T3-S4 7'	T3-S5 7½'	T3-S6 Surf.	DW1 5'	Pollutant Mobility Criteria	Direct Exposure Criteria	
									Resid.	Com.
Ethyl benzene (mg/kg)	3.252	---	---	---	---	ND	ND	10.1	500	1,000
Toluene (mg/kg)	2.389	---	---	---	---	ND	ND	67	500	1,000
Xylenes (mg/kg)	23.191	---	---	---	---	ND	ND	19.5	500	1,000
ETPH (mg/kg)	6105	ND	ND	ND	ND	4383	ND	2500	500	2500
PCBs (mg/kg)	---	---	---	---	---	ND	ND	NA	1	10
Naphthalene (mg/kg)	23.121	---	---	---	---	ND	ND	56	1000	2500
Acenaphthylene (mg/kg)	0.895	---	---	---	---	ND	ND	84	1000	2500
Acenaphthene (mg/kg)	3.992	---	---	---	---	ND	ND	84	1000	2500
Flourene (mg/kg)	8.792	---	---	---	---	ND	ND	56	1000	2500
Phenanthrene (mg/kg)	28.003	---	---	---	---	ND	ND	40	1000	2500
Anthracene (mg/kg)	5.093	---	---	---	---	ND	ND	400	1000	2500
Fluoranthene (mg/kg)	1.450	---	---	---	---	ND	ND	56	1000	2500
Pyrene (mg/kg)	4.064	---	---	---	---	ND	ND	40	1000	2500
Benzo(a)anthracene (mg/kg)	0.131	---	---	---	---	ND	ND	1	1	7.8
Chrysene (mg/kg)	0.360	---	---	---	---	ND	ND	1	84	780
Dibenzocarbazole (mg/kg)	0.884	---	---	---	---	ND	ND	None	None	None
Lead (mg/kg)	---	---	---	---	---	415	24.6	NA	500	1000
SPLP Lead (mg/l)	---	---	---	---	---	0.07	ND	0.15	NA	NA
Arsenic (mg/kg)	---	---	---	---	---	7.6	7.7	NA	10	10
SPLP Arsenic (mg/l)	---	---	---	---	---	ND	ND	0.5	NA	NA
Barium (mg/kg)	---	---	---	---	---	64	31	NA	4700	140,000

DEPTH SAMPLE	T3-S1 7'	T3-S2 7'	T3-S3 7'	T3-S4 7'	T3-S5 7½'	T3-S6 Surf.	DW1 5'	Pollutant Mobility Criteria	Direct Exposure Criteria	
									Resid.	Com.
SPLP Barium (mg/l)	---	---	---	---	---	ND	ND	10	NA	NA
Cadmium (mg/kg)	---	---	---	---	---	1.1	ND	NA	34	1000
SPLP Cadmium (mg/l)	---	---	---	---	---	ND	ND	0.05	NA	NA
Chromium (mg/kg)	---	---	---	---	---	33.8	21.7	NA	3900	51,000
SPLP Chromium (mg/l)	---	---	---	---	---	ND	ND	0.5	NA	NA
Mercury (mg/kg)	---	---	---	---	---	0.05	ND	NA	20	610
SPLP Mercury (mg/l)	---	---	---	---	---	ND	ND	0.02	NA	NA
Selenium (mg/kg)	---	---	---	---	---	ND	ND	NA	340	10,000
SPLP Selenium (mg/l)	---	---	---	---	---	ND	ND	0.5	NA	NA
Silver (mg/kg)	---	---	---	---	---	ND	ND	NA	340	10,000
SPLP Silver (mg/l)	---	---	---	---	---	ND	ND	0.36	NA	NA

Notes: 1. ND means not detected. — means sample not testedor this parameter. NA means remediation criteria not applicable to this analysis. AVOCs are aromatic volatile organic compounds.
2. Pollutant Mobility Criteria and Direct Exposure Criteria are taken from the DEP Remediation Standard Regulations [C.G.S. Section 22a-133k].
3. Test results exceeding remediation criteria have been highlighted with thick lines.

The soil tests did not reveal evidence of a release at the floor drainage dry well (which confirmed our field observations).

Contamination in excess of remediation criteria was detected in sample T3-S1 (collected on the north end of the grave of the heating oil tank) and at T3-S6 (the surface sample near the fill pipe). T3-S1 contained ETPH at 6105 mg/kg (residential DEC is 500 mg/kg) and xylenes at 23.191 mg/kg (Pollutant Mobility Criteria [PMC] is 19.5 mg/kg). T3-S6 contained ETPH at 4383 mg/kg (DEC is 500 mg/kg).

The grave was re-filled with the soil originally removed from the area, while arrangements were made to perform a soil remediation effort.

C. Soil Remediation by Underground Systems

In an attempt to address the soil contamination found at the eastern gasoline and heating oil tanks, Underground Systems returned to the site on 12 & 13 August 2002 to excavate contaminated soils under the observation of Ned Shanahan. Figure 8 depicts the soil removal areas and post-excavation soil sampling at the tanks.

Six truckloads of contaminated soils from the August 2002 cleanup efforts (totaling 121.06 tons) were taken directly to Phoenix Soil LLC for treatment and disposal. Appendix D presents manifests for the removal of the waste soils.

1. Soil Remediation at Underground Heating Oil Tank

A mixture of contaminated and uncontaminated soils had been placed in the tank grave after its removal in June 2002. Underground Systems removed the soil mixture for off-site disposal. Soil tests performed in June 2002 demonstrated that contaminated soils were present on the ground surface adjacent to the wall of the building (apparently due to fuel overfills) and in the northern end of the tank grave at depth. After removing the soil mixture in the grave, soil was removed from the northern end of the grave and in areas of surface staining. In addition, a small surface stain observed near the southern edge of the tank grave was scraped to a depth of 1½ feet. The soil removal effort was guided by petroleum odors and staining.

The final dimensions of the excavation measured approximately 22 feet long by 9 feet wide and up to 9 feet deep. No ground water was observed in the cleanup excavation, but hand excavation in the base of hole to a depth of 9½ feet revealed wet soils.

After the removal of the contaminated soil, Ned Shanahan collected five post-excavation soil samples (PE1-PE5) on the edges of the removal area. PE1 and PE2 were collected in the northern end of the grave (bottom and north wall respectively) after removing odorous soils at depth. PE3 and PE4 were collected after removing odorous soils in the apparent overfill area adjacent to the building wall. PE5 sample was collected in the area where the small surface stain had been removed south of the tank grave. The soil samples were placed in a chilled cooler and were transported to Connecticut Testing Laboratories for analysis for ETPH and aromatic VOCs by EPA Method 8021B. The two contaminants sought in the post-excavation samples had been detected above remediation criteria in soil tests performed at the time of tank removal.

The results of the laboratory analysis of the post-excavation soils are presented in Appendix C and are summarized in the table below.

POST-EXCAVATION SOIL TESTS - HEATING OIL TANK
Concentrations as shown

SAMPLE LOCATION DEPTH	PE1 Bottom 9'	PE2 N. Side 7'	PE3 W. Side 2'	PE4 W. Side 2'	PE5 Bottom 1½'	Pollutant Mobility Criteria	Direct Exposure Criteria	
							Resid.	Comm.
AVOCs (mg/kg)	ND	ND	ND	ND	ND	Varies	Varies	Varies
ETPH (mg/kg)	ND	ND	ND	ND	ND	2500	500	2500

Notes: 1. ND means not detected. NA means remediation criteria not applicable to this analysis. AVOCs are aromatic volatile organic compounds and MTBE.
2. Pollutant Mobility Criteria and Direct Exposure Criteria are taken from the DEP Remediation Standard Regulations [C.G.S. Section 22a-133k].

ETPH and aromatic VOCs were not detected in the five post-excavation soil samples. The soil test data indicated that the soil removal effort had successfully removed contaminated soils and that further removal was not necessary.

2. Soil Remediation at Eastern Underground Gasoline Tank

A mixture of contaminated and uncontaminated soils that had been placed in the hole after the removal of the tank in June 2002 was excavated by Underground Systems for off-site disposal. The hole was then extended to the west, east, and south and was deepened to depths up to approximately 8½ feet. The soil removal was guided by petroleum odors and staining. The most odorous soils appeared to be associated with surface spills near the former pump pad. No ground water was observed in the cleanup excavation, but soil at the deepest parts of the hole appeared to be moist. The final dimensions of the removal area measured up to approximately 22 feet long, 11 feet wide, and 8½ feet deep.

After the removal of the contaminated soil, Ned Shanahan collected seven post-excavation soil samples (PE6-PE12) on the edges of the removal area. The soil samples were placed in a chilled cooler and were transported to Connecticut Testing Laboratories for analysis for ETPH, aromatic VOCs by EPA Method 8021B, and for arsenic and lead by mass analysis methods. The parameters selected for the soil tests had been detected above remediation criteria in soil samples collected at the time of tank removal.

The results of the laboratory analysis of the post-excavation soils are presented in Appendix C and are summarized in the table below.

POST-EXCAVATION SOIL TESTS - EASTERN GASOLINE TANK
Concentrations as shown

SAMPLE LOCATION DEPTH	PE6 N. Side 6½'	PE7 Bottom 3½'	PE8 E. Side 4½'	PE9 Bottom 8½'	PE10 W. Side 7½'	PE11 S. Side 8'	PE12 E. Side 8'	Pollutant Mobility Criteria	Direct Exposure Criteria	
									Resid.	Comm.
AVOCs (mg/kg)	ND	ND	ND	ND	ND	ND	ND	Varies	Varies	Varies
ETPH (mg/kg)	ND	ND	ND	ND	ND	ND	ND	2500	500	2500
Arsenic (mg/kg)	14.4	10.7	6.6	4.8	5.0	6.0	5.7	NA	10	10
Lead (mg/kg)	5.0	150	4.0	3.0	ND	3.0	5.0	NA	500	1000

Notes:
1. ND means not detected. NA means remediation criteria not applicable to this analysis. AVOCs are aromatic volatile organic compounds.
2. Pollutant Mobility Criteria and Direct Exposure Criteria are taken from the DEP Remediation Standard Regulations [C.G.S. Section 22a-133k].
3. Test results exceeding remediation criteria have been highlighted with thick lines.

The post-excavation test data indicated that the remediation effort had successfully removed soils containing fuel constituents (ETPH, lead, aromatic VOCs). However, two samples (PE6, PE7) contained arsenic at concentrations (14.1 and 10.7 mg/kg, respectively) which exceeded the 10 mg/kg remediation criteria. PE7 was collected at a depth of 3½ feet in the area of the former pump pad, while PE7 was collected at a depth of 6½ feet east of the pad on the northern edge of the tank grave. We elected to fill the cleanup excavation pending further investigation of the lingering arsenic detections.

IV. SOIL GAS SURVEY

A. Description of Survey

On 13 & 14 June 2002, Hygenix, Inc. [Hygenix] collected soil gas samples from 19 locations under the floor slab of the garage building. Hygenix performed the work as a subcontractor to Shanahan Consulting and Ned Shanahan was present on site to assist in the survey. The survey was performed as a screening tool to explore for possible spills of petroleum products under the garage.

The concrete slab floor ranged in thickness from approximately 6 to 8 inches and was in good condition. Appendix E describes the exploratory work performed by Hygenix and Figure 5 shows the approximate locations of the sampling points (as well as subsequent soil borings drilled through the garage floor to collect soil samples [borings discussed later in this report]).

The soil gas sampling locations are described below:

SOIL GAS SAMPLING LOCATIONS	
LOCATION	DESCRIPTION
SG1, SG8, SG9, SG10	In southern part of garage where two floor drains were observed.
SG2, SG3	In southern part of building where a former machine shop (for bridge repair work) was reported.
SG4, SG5	In northern part of the building to explore for possible releases from a fuel oil line observed in the floor.
SG6, SG7	In garage area in northern part of building.
SG11, SG12, SG13, SG14, SG15	In eastern section of the central part of garage (this section was erected in circa 1950). SG11 was also located near two 55-gallon drums stored in building. The eastern section included a single floor drain.
SG16, SG17, SG18, SG19	In a garage area in the western section of the central part of the building (section erected in circa 1911). A single floor drain was observed in the western section.

Hygenix measured total concentrations of volatile organic compounds [VOCs] using both a 10.2 eV and an 11.7 eV HNU photoionization detector [PID] at each of nineteen soil gas sample locations.

B. Survey Results

The results of the soil gas survey are summarized in the table below and are presented in the Hygenix report in Appendix E.

SOIL GAS CONCENTRATIONS UNDER FLOOR OF GARAGE BUILDING Concentrations in ppm					
LOCATION	10.2 eV PID	11.7 eV PID	LOCATION	10.2 eV PID	11.7 eV PID
SG1	ND	ND	SG11	ND	ND
SG2	ND	ND	SG12	Trace	ND
SG3	ND	ND	SG13	ND	ND
SG4	ND	ND	SG14	Trace	ND
SG5	ND	ND	SG15	Trace	ND
SG6	ND	ND	SG16	1	ND
SG7	ND	ND	SG17	Trace	ND
SG8	ND	ND	SG18	1	ND
SG9	ND	ND	SG19	15	5
SG10	ND	ND			

Note: ND means not detected.

The PID measurements may reflect the presence of various volatile contaminants (e.g. petroleum products, solvents) or naturally-occurring organic compounds. Positive soil gas readings could be triggered by contaminants in either shallow ground water or soils near the sampling point.

No VOCs were detected in the southern and northern parts of the garage. The southern area where no PID responses were noted included the former machine shop area (SG2 and SG3). In the central section of the building, seven locations (SG12, SG14-SG19) exhibited positive PID readings using either the 10.2 eV or 11.7 eV instrument. The VOC concentrations at location SG19 were significantly higher than any other reading. The soil gas detections guided our subsequent drilling program under the garage floor, as is discussed later in this report.

V. GROUND WATER FLOW EVALUATION

Our evaluation of overburden ground water flow in the site area involved the use of water table elevations at five overburden monitor wells (W1-W4 and MW3). Overburden wells W5 and W6 were installed after the ground water flow evaluation. We also surveyed the elevation of two existing bedrock monitor wells (MW1, MW2).

Elevation data for the five overburden and two bedrock monitor wells are tabulated below. The well elevations were surveyed relative to an arbitrary datum by Robert R. Weaver, L.S. of East Haddam, Connecticut.

WELL CONSTRUCTION ELEVATION DATA (Feet)				
WELL	Type of Well	Elevation of Top of Metal Cover	Elevation of Top of PVC Casing	Total Depth of Well Below Top of PVC
MW1	Bedrock	38.58	38.14	47
MW2	Bedrock	33.88	33.50	29
MW3	Overburden	36.11	35.93	20
W1	Overburden	36.90	36.62	17
W2	Overburden	34.24	33.96	14
W3	Overburden	31.80	31.43	14
W4	Overburden	35.68	35.4	17.5

Note: Elevations refer to an assumed elevation of 35.00 feet at a nail near the southwest corner of the town garage building at 1 Main Street.

Ground water elevation data measured at the monitor wells on 2 January 2004 are tabulated below.

GROUND WATER ELEVATION DATA (Feet)			
WELL	Elevation of Top of PVC	Depth Below PVC	Elevation of Water Table
MW1	38.14	12.76	25.38
MW2	33.50	6.70	26.80
MW3	35.93	9.29	26.64
W1	36.62	5.62	31.00
W2	33.96	6.33	27.63
W3	31.43	5.58	25.85
W4	35.40	6.14	29.26

Note: Water levels measured by Ned Shanahan using a Waterra WS-100 water level sensor.

As shown on Figure 6, we constructed an overburden ground water contour map using the data from the five overburden wells. The elevation data indicate that overburden ground water in the area of the garage generally flows to the south and overburden ground water behind the town hall (near well MW3) appears to flow toward the southeast.

During our exploration work, we did not encounter ground water in the overburden deposits in the western part of the site (see cross-hatched area on Figure 6). The ground surface slopes steeply to the west (toward the Connecticut River) on the western edge of the site, suggesting that bedrock ground water in this area may have a westward flow direction.

The lower elevation of the water table in bedrock well MW2 (26.80 feet) when compared with the adjacent overburden well W2 (27.63 feet) suggests that ground water flows downward (from the overburden into the bedrock) at this well pair.

VI. DRILLING PROGRAM

A. Test Borings and Monitor Wells

On 8 & 9 October 2003 and 12 & 13 November 2003, Associated Borings Co., Inc. of Naugatuck, Connecticut drilled 30 soil borings (TG1-TG27 and TH1-TH3) and four monitor wells (W1-W4) on site. In addition, on 20 July 2004, Associated Borings installed monitor wells W5 and W6. Ned Shanahan of Shanahan Consulting observed the drilling of the borings. The approximate locations of the borings and wells are shown on Figures 3 and 4. Boring logs and well construction diagrams are presented in Appendix F.

Site features that hindered the drilling program included:

1. Drilling inside the garage building was hampered by low ceilings. The derrick of the rig could not be raised in the central part of the garage, preventing the collection of spilt spoon samples (soil samples were collected either by hand from the side of the hole or directly from the drilling augers). The ceiling in the southern part of the garage was too low to permit drilling with the auger. Based on the available data [including the absence of contamination at the floor drainage dry well for the southern garage drains and the absence of soil gas detections], we did not believe that significant contamination was present in the southern part of the garage.

2. Low-hung utility lines near the southwestern corner of the garage building limited the drilling locations in the former gasoline tank/pump adjacent to this corner of the garage. We elected not to raise the drilling derrick and collected soil samples directly from the drilling augers in explorations performed in the area.

3. A reported underground water line and sanitary sewer line located outside the eastern wall of the garage hampered our drilling effort.

The rationale for the boring and well locations are described in the table below:

RATIONALE FOR BORING AND WELL LOCATIONS	
EXPLORATION(S)	DESCRIPTION
W1	Overburden monitor well installed west of the garage.
W2	Overburden monitor well installed in pavement patch of former underground gasoline tank and pump outside southwestern corner of garage. The well provides overburden ground water data and supplements an existing adjacent bedrock well (MW2). W2 was drilled into borehole of TG7.
W3	Overburden monitor well downgradient of (south of) garage.
W4	Overburden monitor well east of garage and downgradient of the former leaking underground heating oil tank.
W5	Overburden monitor well installed east of the garage and downgradient of the former leaking underground gasoline tank.
W6	Overburden monitor well installed downgradient of the area where blue residue was observed on the ground surface behind the town hall.
TH1, TH2	Drilled to water table in the reported former location of an underground gasoline behind the town hall.

RATIONALE FOR BORING AND WELL LOCATIONS	
EXPLORATION(S)	DESCRIPTION
TG1	Drilled to bottom of gasoline tank soil removal area to supplement post-excavation soil samples collected after August 2002 soil removal effort. In reviewing our prior post-excavation testing, we concluded that an additional bottom sample would be beneficial in the area of TG1.
TG2, TG3	Drilled to water table to evaluate extent of arsenic found in post-excavation soil samples from previous soil remediation effort. TG3 was also located near a former aboveground heating oil tank.
TH3, TG4	Drilled to water table near the site boundary to evaluate area where an apparent tank vent pipe was found to terminate underground.
TG5	Drilled to water table in area where an unknown pump was shown on a 1932 map.
TG6, TG7, TG8	Drilled to water table in pavement patch of former underground gasoline tank and pump outside southwestern corner of garage.
TG9	Drilled to refusal (no ground water observed) at location south of underground gasoline tank removed in June 2002 to evaluate unknown buried pipe seen exiting tank grave.
TG10-TG12, TG18-TG21	Drilled to refusal (no ground water observed) in area south of River House where inactive septic system was located and where town workers had reported possible subsurface contamination during prior excavation work.
TG13-TG17, TG22-TG23	Drilled to water table through floor of central part of garage to evaluate PID responses in soil gas survey, the likelihood of remnant contamination under 1950 addition, and floor drains. TG22 and TG23 were drilled near one floor drain after ETPH was detected in a previous boring (TG14) at the drain.
TG24-TG27	Drilled to water table to evaluate elevated PID response in soil sample collected from W1. Later laboratory testing later reported no VOCs in the W1 soil sample.

In planning the drilling program, we considered site geologic conditions. In areas where overburden ground water was present, large spills of petroleum products would be expected to move through soils and float on the water table. In areas where shallow bedrock was observed above the water table, significant releases of contaminants would likely accumulate on the bedrock surface. Based on these perceived contaminant transport mechanisms, we drilled in each area of concern until we encountered either the water table interface or the top of the apparent bedrock surface.

The borings ranged in depth from 1½ to 17½ feet below ground surface. Refusal was encountered on the apparent bedrock surface at depths of between 1½ and 10 feet in the western part of the site (where a surficial bedrock knob is visible).

After their installation, monitor wells W1-W6 were developed to remove sediment from the well casings by hand bailing.

Overburden sediments generally consisted of a surface layer of mixed sand, gravel, and silt (possibly soil fill in some locations), underlain by sand and silt.

Petroleum odors or staining were observed in only one of the 72 soil samples collected during drilling. TG8S1, the sample which exhibited a petroleum odor, was collected at a depth of 8 feet in the pavement patch of the former underground gasoline tank and pump outside southwestern corner of garage

building. No petroleum odor was noted for TG8S2, collected at a depth of 10 feet in the same boring.

B. Soil Sampling

Soil samples were collected during the drilling program at selected depth intervals by one of the following three methods: (1) by hand directly from the side of the hole using a clean sample jar or a clean plastic spoon, (2) directly from the auger flights, or (3) by using a standard split spoon sampler (the most common sampling method). The approximate depths of the soil samples are shown in the table in Appendix G. Between samples, the split-spoon sampler was washed in a detergent/water solution and rinsed in water.

On 8 October 2003, Ned Shanahan collected a sample of blue-colored residue (sample SS1) on the ground surface near the former rear storage building using a clean plastic spoon. The blue residue was observed over an area estimated at up to 30 feet long and up to 13 feet wide.

On 20 July 2004, Ned Shanahan collected a shallow soil sample (sample DO1) in a drainage ditch in the southwestern part of the site near the location where a storm drainage pipe discharged into the ditch. The sample was collected using a split spoon sampler driven into the ditch by Associated Borings. The ditch was paved with asphalt and the sample was collected below a thin asphalt layer at a depth interval of approximately 0.1 to 1.0 feet. The spilt spoon encountered refusal at 1 foot, presumably on the bedrock surface given nearby bedrock outcrops. The bottom 1-inch of the sample was dark in appearance, but no petroleum odor was noted.

With the exception of sample DO1, duplicate soil samples were collected for each sample location. One of the duplicate samples was placed in a glass jar and kept chilled for possible future analyses at a laboratory. The second sample was placed in a plastic "ziploc" bag and was test-screened in the field using a photoionization detector [PID]. Sample DO1 was sent directly to the laboratory without PID screening.

C. Ground Water Sampling

Monitor wells MW1, MW2 , W1, W2, W3, and W4 were sampled by Ned Shanahan on 2 January 2004 using a manual Waterra inertial pumping system (consisting of dedicated plastic tubing and a footvalve).

Prior to sample collection, the water level in each well was measured and Ned Shanahan then generally removed three times the volume of standing water in the well. However, at MW1, the well was purged dry after the removal of 11 gallons (approximately 2 well volumes) before it was sampled. The ground water samples were kept chilled pending delivery to the laboratory. Both filtered and unfiltered samples were collected for metals analysis. Filtering was performed by using a 0.45 micron filter attached directly to the Waterra well tubing.

On 2 January 2004, Ned Shanahan also collected a sample of water from the bedrock supply well located on the property. The well was sampled from a spigot near the wellhead in the underground well house after running water in the nearby River House for several minutes.

Petroleum odors or sheens were not observed in the ground water samples. The filtered samples collected for metals testing at each well were clear. The unfiltered water samples contained silt.

We inspected two tank "sniffer" wells located adjacent to the underground diesel fuel tank at the DOT building with the intention of collecting a ground water sample. However, we discovered that the wells were only five feet deep (approximately) and did not contain ground water.

VII. CHEMICAL TESTING DATA

A. Test Screening of Soils

A photoionization detector [PID] was used to test screen the 79 soil samples collected during the drilling program for the presence of volatile organic compounds [VOCs]. The instrument used for the screening was an HNU PI 101 with an 11.7 eV lamp. Test screening was performed in the field by testing the headspace above the soil samples in plastic "ziploc" bags.

The results of the test screening are presented in Appendix G.

The PID responses ranged from 0.0 to 10.2 ppm total VOCs. The highest VOC readings were encountered in the following samples: W1S1 (located outside western wall of garage) - 10.2 ppm, TG8S1 (located in grave of gasoline tank outside southwest corner of garage)- 4.8 ppm, and TG7S1 - 0.6 ppm. W1 was located outside the western wall of the garage, while TG7 and TG8 were both located in the grave of the former gasoline tank outside the southwestern corner of the garage. The remaining 76 soil samples exhibited PID readings of 0.5 ppm of less.

The PID responds to VOCs found in fuels, solvents, and other petroleum products. In addition, the instrument may detect the presence of naturally-occurring organic compounds.

B. Description of Laboratory Tests of Soil and Ground Water Samples

Laboratory tests of soil and ground water samples were performed at Connecticut Testing Laboratories, Inc. in Meriden, Connecticut.

1. Soil Tests

We tested 47 soil samples at the laboratory for a variety of contaminants, as is tabulated below.

LABORATORY TESTS OF SOIL SAMPLES		
SAMPLE (S)	LABORATORY TESTS PERFORMED	TESTING RATIONALE
DO1	ETPH, PCBs, VOCs	Evaluate soil in drainage ditch for possible petroleum contamination.
TH1S2, TH1S3, TH2S2	Aromatic VOCs and lead by mass analysis	Evaluate possible gasoline contamination in former underground tank grave behind town hall.
SS1	Ten metals (arsenic, cadmium, total chromium, hexavalent chromium, copper, lead, mercury, nickel, silver, zinc) by mass analysis; eight metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc) by SPLP method, and eight RCRA metals by TCLP method	Evaluate blue residue on ground surface for possible metal contamination.

LABORATORY TESTS OF SOIL SAMPLES		
SAMPLE (S)	LABORATORY TESTS PERFORMED	TESTING RATIONALE
TH3S3, TG4S3	ETPH	Wet soil samples tested to evaluate whether heating oil spilled near end of tank vent pipe.
TG1S1	Aromatic VOCs, ETPH arsenic, lead, SPLP Lead	Intended as a supplemental post-excavation bottom sample for cleanup area at underground gasoline tank.
TG2S1, TG2S2, TG2S3, TG3S1, TG3S2, TG3S3	Arsenic	Evaluated extent of remnant arsenic contamination in tank removal area.
TG5S3	ETPH; aromatic VOCs, lead, SPLP lead	Wet soil sample collected near unknown pump on 1932 map tested for possible fuel spills.
TG6S1, TG6S2, TG7S1, TG7S2, TG8S1, TG8S2	Aromatic VOCS, lead, SPLP lead	Searched for possible gasoline contamination in pavement patch marking former underground gasoline tank and pump outside southwest corner of garage.
TG9S2	Aromatic VOCS, lead, SPLP lead	Evaluated possible gasoline contamination at a depth of 5 feet in area where buried pipe was seen exiting grave of removed gasoline tank west of garage.
TG10S1, TG11S2, TG12S1, TG18S2, TG19S3, TG20S2, TG21S1	ETPH for all samples. Tested TG11S2 and TG19S3 for VOCs.	Tested soils at apparent bedrock surface in area of septic system. Tested two deeper samples from area (TG11S2, TG19S3) for VOCs when no significant PID responses were observed.
TG13S1, TG14S1, TG14S3, TG15S1, TG15S2, TG15S3, TG16S1, TG16S3, TG17S1, TG17S3, TG22S1, TG22S3, TG23S1, TG23S3	ETPH for all samples. Tested TG15 samples and TG17S1for VOCs. Tested TG13S1 and TG14S1 for nine metals by mass analysis methods. Tested for selected SPLP metals in samples based on mass analysis results. Tested TG22S1 for PCBs, VOCs, and nine metals by mass analysis and TG23S1 for PCBs. Tested for selected SPLP metals based on mass analysis results.	Evaluated possible contamination under central part of garage. Tested surficial samples (considered most likely to be impacted) and wet samples (to evaluate water table conditions). Tested TG15 samples for VOCs due to detection of VOCs in soil gas from this area [sample SG19]. Performed additional lab tests in floor drain area (TG14, TG22, TG23) when ETPH detected in soil here. TG13 and TG14 located under 1950 addition where historical surface spills could have occurred.
W1S1, W1S2, TG24S1, TG27S1	VOCs	Tested several samples outside western wall of garage to evaluate elevated PID response for sample W1S1.

Based on our knowledge of site usage, we considered ETPH to be the primary indicator of contamination on the site. We tested selected samples for VOCs guided by field test screening. In the areas of former gasoline tanks, aromatic VOCs and lead were considered indicators of contamination. We tested selected samples for nine metals (arsenic, cadmium, copper, chromium, lead, nickel, silver, zinc) considered to be useful indicators of site activities. The samples submitted for metals testing were chosen after reviewing ETPH and other earlier test data. After the results of the mass analysis tests for metal had been received, in general, we tested the samples for a subset of leachable metals (by SPLP Method) for those metals that could theoretically exceed DEP Pollutant Mobility Criteria (mass analysis concentrations do not exceed 20 times SPLP concentrations based on dilutions used in the leaching test).

Soils were tested for aromatic VOCs by EPA Method 8021B and for aromatic and halogenated VOCs (referred to as simply "VOCs" in the table above) using EPA Method 8260. The samples submitted for VOC testing were preserved via Method 5035.

The soil samples were kept chilled during delivery to the laboratory.

2. Ground Water Tests

The six monitor well ground water samples [MW1, MW2, W1, W2, W3, W4] were tested for: (1) aromatic and halogenated VOCs by EPA Method 502.2, (2) ETPH, and (3) total [unfiltered] and dissolved [filtered] concentrations of arsenic, chromium, and lead. The metals selected for testing had been detected above regulatory criteria in one or more unfiltered ground water samples collected by Land-Tech in 2000.

The Supply Well sample from the bedrock supply well was tested for VOCs by EPA Method 502.2

The water samples were kept chilled during delivery to the laboratory on the day of their collection.

C. Results of Laboratory Analyses of Soil

The results of the laboratory soil tests are presented in Appendix H and are summarized in the tables that follow. Appendix H also contains the chain-of-custody records for the samples.

SOIL TEST DATA - BLUE RESIDUE SAMPLE SS1 Concentrations as shown					
	SS1 Surface	PMC	RCRA Hazardous Waste Limit	DEC	
				Resid.	Comm.
Arsenic (mg/kg)	7.6	NA	NA	10	10
Cadmium (mg/kg)	1.4	NA	NA	34	1000
Total Chromium (mg/kg)	191	NA	NA	3900	51,000
Hexavalent Chromium (mg/kg)	ND	NA	NA	100	100
Lead (mg/kg)	854	NA	NA	500	1000
Copper (mg/kg)	562	NA	NA	2500	76,000
Mercury (mg/kg)	57	NA	NA	20	610
Nickel (mg/kg)	10.6	NA	NA	1400	7500
Silver (mg/kg)	ND	NA	NA	340	10,000
Zinc (mg/kg)	505	NA	NA	20,000	610,000
SPLP Arsenic (mg/l)	ND	0.5	NA	NA	NA
SPLP Cadmium (mg/l)	ND	0.05	NA	NA	NA
SPLP Chromium (mg/l)	0.07	0.5	NA	NA	NA
SPLP Copper (mg/l)	0.08	13	NA	NA	NA
SPLP Lead (mg/l)	0.128	0.15	NA	NA	NA
SPLP Mercury (mg/l)	0.004	0.02	NA	NA	NA
SPLP Nickel (mg/l)	ND	1.0	NA	NA	NA
SPLP Zinc (mg/l)	ND	50	NA	NA	NA
TCLP Arsenic (mg/l)	ND	NA	5	NA	NA
TCLP Barium (mg/l)	5.3	NA	100	NA	NA
TCLP Cadmium (mg/l)	0.02	NA	1	NA	NA
TCLP Chromium (mg/l)	ND	NA	5	NA	NA
TCLP Lead (mg/l)	0.251	NA	5	NA	NA
TCLP Mercury (mg/l)	ND	NA	0.2	NA	NA
TCLP Selenium (mg/l)	ND	NA	1	NA	NA
TCLP Silver (mg/l)	ND	NA	5	NA	NA

SOIL TEST DATA - SOIL BORING SAMPLES & DRAINAGE DITCH SAMPLE DO1 Concentrations as shown							
SAMPLE DEPTH	TH1S2 5-7'	TH1S3 10-12'	TH2S2 5-7'	TH3S3 10-12'	PMC	DEC	
						Resid.	Comm.
ETPH (mg/kg)	---	---	---	ND	2500	500	2500
AVOCs (mg/kg)	ND	ND	ND	---	Varies	Varies	Varies
Lead (mg/kg)	28.4	4.8	5.2	---	NA	500	1000

	TG1S2 8-10'	TG2S1 0-2'	TG2S2 5-7'	TG2S3 10-12'	TG3S1 0-2'	TG3S2 5-7'	TG3S3 10-12'	PMC	DEC	
									Res.	Com.
ETPH (mg/kg)	ND	---	---	---	---	---	---	2500	500	2500
AVOCs (ug/kg)	ND	---	---	---	---	---	---	Varies	Varies	Varies
Arsenic (mg/kg)	2.6	4.3	8.6	4.2	1.8	4.9	5.3	NA	10	10
Lead (mg/kg)	4.1	---	---	---	---	---	---	NA	500	1000
SPLP Lead (mg/l)	ND	---	---	---	---	---	---	0.15	NA	NA

	TG4S3 10-12'	TG5S3 10-12'	TG6S1 6'	TG6S2 10'	TG7S1 8'	TG7S2 10'	TG8S1 8'	TG8S2 10'	PMC	DEC	
										Res.	Com.
ETPH (mg/kg)	ND	ND	---	---	---	---	---	---	2500	500	2500
AVOCs (ug/kg)	---	ND	ND	ND	ND	ND	ND	ND	Varies	Varies	Varies
Lead (mg/kg)	---	6.9	58	14.6	45.7	7.2	14.3	5.4	NA	500	1000
SPLP Lead (mg/l)	---	ND	0.009	ND	0.008	ND	ND	ND	0.15	NA	NA

	TG9S2 5'	TG10S1 5'	TG11S2 7-7½'	TG12S1 3½'	TG18S2 5-5½'	TG19S3 7-9'	TG20S2 5-5½'	TG21S1 0-1½'	PMC	DEC	
										Res.	Comm.
ETPH (mg/kg)	---	ND	ND	ND	ND	ND	ND	ND	500	500	2500
VOCs (ug/kg)	---	---	ND	---	---	ND	---	---	Varies	Varies	Varies
AVOCs (ug/kg)	ND	---	---	---	---	---	---	---	Varies	Varies	Varies
Lead (mg/kg)	12.9	---	---	---	---	---	---	---	NA	500	1000
SPLP Lead (mg/kg)	ND	---	---	---	---	---	---	---	0.015	Varies	Varies

	TG14S3 10'	TG15S1 ½-1'	TG15S2 5'	TG15S3 10'	TG16S1 ½-1'	TG16S3 10'	TG17S1 ½-1'	TG17S3 10'	PMC	DEC	
										Res.	Com.
ETPH (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND	2500	500	2500
VOCs (ug/kg)	---	ND	ND	ND	---	---	ND	---	Varies	Varies	Varies

	TG22S3 10'	TG23S1 ½-1'	TG23S3 10'	TG24S1 1-3'	TG27S1 1-3'	W1S1 1-3'	W1S2 5-7'	PMC	DEC	
									Res.	Com.
ETPH (mg/kg)	ND	ND	ND	---	---	---	---	2500	500	2500
VOCs (ug/kg)	---	---	---	ND	ND	ND	ND	Varies	Varies	Varies
PCBs (mg/kg)	---	ND	---	---	---	---	---	NA	1	10

	TG13S1 ½-1'	TG14S1 ½-1'	TG22S1 ½-1'	PMC	DEC	
					Res.	Comm.
ETPH (mg/kg)	ND	59	495	2500	500	2500
VOCs (ug/kg)	ND	ND	ND	Varies	Varies	Varies
PCBS (mg/kg)	---	---	ND	NA	1	10
Arsenic (mg/kg)	3.0	9.1	2.0	NA	10	10
Cadmium (mg/kg)	ND	ND	ND	NA	34	1000
Total Chromium (mg/kg)	19.1	36.3	15.4	NA	3900	51,000
Copper (mg/kg)	12.2	20.4	21.9	NA	2500	76,000
Lead (mg/kg)	91.1	52.2	53.7	NA	500	1000
Mercury (mg/kg)	0.03	0.04	ND	NA	20	610
Nickel (mg/kg)	14.7	25.4	11.4	NA	1400	7500
Silver (mg/kg)	ND	ND	ND	NA	340	10000
Zinc (mg/kg)	71.3	40.9	50.8	NA	20,000	610,000
SPLP Chromium (mg/l)	ND	ND	ND	0.5	NA	NA
SPLP Lead (mg/l)	ND	ND	0.013	0.15	NA	NA
SPLP Nickel (mg/l)	---	ND	---	1	NA	NA

	DO1 0.1-1'	PMC	DEC	
			Res.	Comm.
ETPH (mg/kg)	ND	500	500	2500
VOCs (ug/kg)	ND	Varies	Varies	Varies
PCBS (mg/kg)	ND	NA	1	10

Notes for soils tables:

1. ND means not detected. --- means parameter not tested in this sample. None means no criteria established. NA means remediation criteria not applicable to this analysis. VOCs are aromatic and halogenated volatile organic compounds. AVOCs are aromatic volatile organic compounds. ETPH is Extractable Total Petroleum Hydrocarbons.
2. In general, soil samples were tested for those SPLP metals that could theoretically exceed remediation criteria based on total metals testing by mass analysis methods.
3. PMC [Pollutant Mobility Criteria] and DEC [Direct Exposure Criteria] are taken from the DEP Remediation Standard Regulations [RSRs] (C.G.S. Section 22a-133k). Since the site is classified "GB", we generally applied PMC for "GB" classification areas. However, in accordance with the RSRs, we applied stricter "GA" PMC for the following soil samples: TG9, TG10, TG11, TG12, TG18, TG19, TG20, TG21, and DO1because no ground water was encountered in overburden deposits at these site locations.
4. Test results exceeding remediation criteria have been highlighted with thick lines.

The lone exceedances of applicable soil remediation criteria (as established in the Remediation Standard Regulations) detected in the exploration program involved the sample of blue residue (SS1)

collected on the ground behind town hall. SS1 contained lead and mercury at concentrations greater than residential Direct Exposure Criteria. Our TCLP tests indicated that the residue was not a characteristic hazardous waste under RCRA based on metals content.

The soil tests revealed an apparent minor surface spill under the central part of the garage building near a floor drain. Samples TG14S1 and TG22S1, both collected near the drain, contained ETPH at concentrations below the strictest 500 ppm regulatory criteria (TG14S1 at 59 mg/kg and TG22S1 at 495 mg/kg) . In drilling a total of three borings around the floor drain (TG14, TG22, TG23), we tested four additional soil samples for ETPH with no detections reported. Significantly, wet soil samples TG14S3, TG22S3, and TG23S3 did not contain ETPH, suggesting that the water table had not been affected. To further characterize the apparent petroleum spill, we tested the sample with the highest concentration of ETPH (sample TG22S1) for PCBs, for nine metals (by mass analysis), for selected metals by the SPLP leaching method, and for VOCs by EPA Method 8260. We also tested TG23S1 for PCBs and we tested TG14S1 for nine total metals and selected leachable metals. We did not detect PCBs or VOCs or significant concentrations of metals in the various soil tests. The data indicate that the spill at the floor drain involves ETPH, is of limited extent, and did not reach the water table.

In the pavement patch for the former underground gasoline tank and pump outside the southwest corner of the garage, we encountered one soil sample with a petroleum odor (TG8S1). However, laboratory tests of TG8S1 and of five other soil samples from the area did not reveal the presence of aromatic VOCs, lead, or SPLP lead.

The elevated PID response for sample W1S1 was apparently due to a natural organic material since no regulated VOCs were detected in the sample at the laboratory.

In reviewing our post-excavation testing at the underground gasoline tank outside the garage, we concluded that an additional bottom sample from the soil removal area was appropriate. Analysis of TG1S2 (collected as a additional bottom sample) did not detect aromatic VOCs, ETPH, SPLP lead or significant concentrations of arsenic or lead.

We encountered no evidence of contamination at the following areas: (1) in the septic system area south of the River House, (2) near the buried pipe south of the former gasoline tank grave (TG9), (3) at the unknown pump adjacent to Main Street (TG5), (4) in the drainage ditch in the southwestern part of the site (DO1), (5) at the former gasoline tank behind town hall (TH1, TH2), or (6) at a suspected former underground heating oil tank north of town hall (TH3, TG4).

In our prior remediation work at the former underground gasoline tank and pump east of the garage building, we detected arsenic (by mass analysis method) above remediation criteria in two post-excavation soil samples. Supplemental soil removal and explorations to evaluate the arsenic detection are discussed in the next section of this report.

D. Results of Laboratory Analyses of Ground Water

1. Monitor Wells

The table below summarizes the results of laboratory analyses of ground water samples collected at seven monitor wells (MW1, MW2, MW3, W1, W2, W3, W4) on 2 January 2004 by Shanahan Consulting and at three monitor wells (MW1, MW2, MW3) on two occasions in 2000 by Land-Tech. Appendix 1 presents our recent ground water laboratory test data and the chain of custody records for the water samples.

GROUND WATER TEST DATA - BEDROCK MONITOR WELLS Concentrations in ppb							
CONTAMINANT	MW1			GROUND WATER PROTECTION CRITERIA	SURFACE WATER PROTECTION CRITERIA	VOLATILIZATION CRITERIA	
	8-9-00	11-15-00	1-2-04			Residential	Commercial
TPH	1800	---	---	500	NE	NA	NA
ETPH	---	---	ND	100	NE	NA	NA
Toluene	5.5	---	ND	1000	4,000,000	7100	41,000
Chloroform	2.0	---	ND	6	14,100	26	62
Other VOCs	ND	---	ND	Varies	Varies	Varies	Varies
Pesticides	---	ND	---	Varies	Varies	NA	NA
Total Arsenic	16	---	5	50	NA	NA	NA
Dissolved Arsenic	---	---	ND	50	4	NA	NA
Total Barium	180	---	---	1000	NE	NA	NA
Total Cadmium	ND	---	---	5	NA	NA	NA
Total Chromium	200	---	ND	50	NA	NA	NA
Dissolved Chromium	---	---	ND	50	1200	NA	NA
Total Lead	ND	---	22	15	NA	NA	NA
Dissolved Lead	---	---	ND	15	13	NA	NA
Total Mercury	ND	---	---	2	NA	NA	NA
Total Selenium	ND	---	---	50	NA	NA	NA
Total Silver	ND	---	---	36	NA	NA	NA

GROUND WATER TEST DATA - BEDROCK MONITOR WELLS Concentrations in ppb							
CONTAMINANT	MW2			GROUND WATER PROTECTION CRITERIA	SURFACE WATER PROTECTION CRITERIA	VOLATILIZATION CRITERIA	
	8-9-00	11-15-00	1-2-04			Residential	Commercial
TPH	1400	---	---	500	NE	NA	NA
ETPH	---	---	ND	100	NE	NA	NA
Chloroform	1.9	---	0.6	6	14,100	26	62
Other VOCs	ND	---	ND	Varies	Varies	Varies	Varies
Pesticides	---	ND	---	Varies	Varies	NA	NA
Total Arsenic	47	---	8	50	NA	NA	NA
Dissolved Arsenic	---	---	ND	50	4	NA	NA
Total Barium	380	---	---	1000	NE	NA	NA
Total Cadmium	ND	---	---	5	NA	NA	NA
Total Chromium	250	---	ND	50	NA	NA	NA
Dissolved Chromium	---	---	ND	50	1200	NA	NA
Total Lead	570	---	62	15	NA	NA	NA
Dissolved Lead	---	---	6	15	13	NA	NA
Total Mercury	ND	---	---	2	NA	NA	NA
Total Selenium	ND	---	---	50	NA	NA	NA
Total Silver	ND	---	---	36	NA	NA	NA

GROUND WATER TEST DATA - OVERBURDEN MONITOR WELL MW3 Concentrations in ppb							
CONTAMINANT	SAMPLE DATES			GROUND WATER PROTECTION CRITERIA	SURFACE WATER PROTECTION CRITERIA	VOLATILIZATION CRITERIA	
	8-9-00	11-15-00	1-2-04			Residential	Commercial
TPH	ND	---	---	500	NE	NA	NA
ETPH	---	---	ND	100	NE	NA	NA
VOCs	ND	---	ND	Varies	Varies	Varies	Varies
Pesticides	---	ND	---	Varies	Varies	NA	NA
Total Arsenic	ND	---	---	50	NA	NA	710
Total Barium	30	---	---	1000	NE	NA	NA
Total Cadmium	ND	---	---	5	NA	NA	NA
Total Chromium	ND	---	---	50	NA	NA	NA
Total Lead	ND	---	---	15	NA	NA	NA
Total Mercury	ND	---	---	2	NA	NA	NA
Total Selenium	ND	---	---	50	NA	NA	NA
Total Silver	ND	---	---	36	NA	NA	NA

GROUND WATER TEST DATA - OVERBURDEN MONITOR WELLS W1-W4 Concentrations in ppb								
CONTAMINANT	W1	W2	W3	W4	GROUND WATER PROTECTION CRITERIA	SURFACE WATER PROTECTION CRITERIA	VOLATILIZATION CRITERIA	
							Resid.	Comm.
ETPH	ND	ND	ND	ND	100	NE	NA	NA
VOCs	ND	ND	ND	ND	Varies	Varies	Varies	Varies
Total Arsenic	10	5	7	22	50	NA	NA	NA
Dissolved Arsenic	ND	ND	ND	ND	50	4	NA	NA
Total Chromium	ND	ND	ND	ND	50	NA	NA	NA
Dissolved Chromium	ND	ND	ND	ND	50	1200	NA	NA
Total Lead	13	25	17	35	15	NA	NA	NA
Dissolved Lead	ND	ND	ND	ND	15	13	NA	NA

Notes for tables:

1. ND means not detected. —means sample not tested for this parameter. ETPH is Extractable Total Petroleum Hydrocarbons. VOCs is volatile organic compounds. NA means criteria not applicable to this parameter. NE means no criteria established.
2. Remediation Criteria are generally taken from the Connecticut DEP Remediation Standard Regulations [C.G.S. Section 22a-133k]. Volatilization Criteria are taken from a March 2003 list of proposed criteria issued by the DEP. As reflected in table comparisons, DEP Water Quality Standards indicate that Surface Water Protection Criteria for detected metals are based on dissolved not total metals concentrations. Ground Water Protection Criteria are shown in table despite "GB" classification of site due to local use of ground water in supply wells.
3. Test results exceeding remediation criteria have been highlighted with thick lines.

ETPH was not detected in the seven monitor well ground water samples collected for our investigation. The previous Land-Tech detections of TPH at MW1 and MW2 may have be caused by natural organic materials.

Tests of ground water collected from MW3 by Land-Tech and by Shanahan Consulting did not detect evidence of petroleum products (i.e. no VOCs or ETPH/TPH were detected). Although the well is adjacent to the grave of the former gasoline tank, our ground water flow calculations indicate that the well is not directly downgradient of the grave, thereby limiting the usefulness of the well. However, two wet soil samples collected below the water table at borings drilled in the grave (TH1 and TH2) did not reveal VOC contamination.

Chloroform (a VOC) was detected at 0.6 ug/L in bedrock monitor well MW2. With the exception of this trace chloroform detection, VOCs were not detected in the 2004 monitor well samples. The concentration of chloroform at MW2 is less than applicable remediation criteria. Land-Tech reported the presence of chloroform in both MW1 (at 2.0 ug/L) and MW2 (at 1.9 ug/L) in their August 2000 samples. Chloroform is a common commercial solvent that is also found in chlorinated public water supplies as a disinfection byproduct. Chloroform can be introduced into samples during sample collection (e.g. on field equipment) or during laboratory testing. In their August 2000 sampling effort, Land-Tech also reported the presence of toluene at 5.5 ug/L in ground water from bedrock well MW1, but our tests of MW1 in 2004 did not detect VOCs.

Dissolved lead was detected at 6 ug/L in our MW2 ground water sample. The remaining dissolved metals sought in our tests were not detected in the well samples. The MW2 lead concentration is below the Surface Water Protection Criterion (13 ug/L) and the Ground Water Protection Criterion (15 ug/L).

The unfiltered ground water samples collected for this investigation contained total lead at concentrations ranging up to 62 ug/L and total arsenic at concentrations up to 22 ug/L. Total chromium was not detected in the six unfiltered samples. In their previous study, Land-Tech also detected metals in unfiltered ground water samples from wells MW1, MW2, and MW3. We suspect that the total metal detections are due to the presence of suspended sediment in the samples and are not representative of ground water contamination. The detection limits used by the laboratory in the 2000 metals tests are in some cases higher than remediation criteria, a fact that reduces the usefulness of these data (see laboratory test report in Appendix B for detection limits).

2. Supply Well

The table below summarizes the results of laboratory analyses of ground water samples collected from the bedrock supply well on 2 January 2004 by Shanahan Consulting and in August 2000 by Land-Tech.

GROUND WATER TEST DATA - SUPPLY WELL Concentrations in ppb						
CONTAMINANT	SAMPLING DATES		GROUND WATER PROTECTION CRITERIA	SURFACE WATER PROTECTION CRITERIA	VOLATILIZATION CRITERIA	
	8-30-00	1-2-04			Residential	Commercial
TPH	ND	---	500	NE	NA	NA
Chloroform	---	1	6	14,100	26	62
Other VOCs	---	ND	Varies	Varies	Varies	Varies
Total Arsenic	ND	---	50	NA	NA	NA
Total Barium	ND	---	1000	NE	NA	NA
Total Cadmium	ND	---	5	NA	NA	NA
Total Chromium	ND	---	50	NA	NA	NA
Total Lead	1	---	15	NA	NA	NA
Total Mercury	ND	---	2	NA	NA	NA
Total Selenium	ND	---	50	NA	NA	NA
Total Silver	ND	---	36	NA	NA	NA

Notes: 1. ND means not detected. —means sample not tested for this parameter. TPH is Total Petroleum Hydrocarbons. NA means criteria not applicable to this parameter. NE means no criteria established.
2. Remediation Criteria are generally taken from the Connecticut DEP Remediation Standard Regulations [C.G.S. Section 22a-133k]. Volatilization Criteria are taken from a March 2003 list of proposed criteria issued by the DEP.

Our recent supply well test detected chloroform at 1 ug/L. No other VOCs were detected. The concentration of chloroform in the water sample does not exceed DEP remediation criteria and is less than the Maximum Contaminant Level of 100 ug/L (for total trihalomethanes) established for public drinking water supplies by the U.S. Environmental Protection Agency [EPA]. Chloroform can be introduced into water samples during collection or laboratory testing. The compound may also be found in supply wells after the chlorination of the well for sanitation purposes.

Our test of the supply well and a previous water test performed by Land-Tech did not detect the sought parameters at concentrations exceeding drinking water limits.

The detection of low concentrations of chloroform in the supply well sample and in monitor well sample MW2 does not appear to represent an on-site release. We did not detect chloroform in several shallow overburden wells, as would be expected if chloroform had been spilled on the property.

VIII. SUPPLEMENTAL SOIL REMEDIATION

A. Soil Removal in Area of Blue Residue

On 9 July 2004, the area of blue residue observed north of the town hall at 1 Main Street was excavated by workers for the Town of East Haddam using a backhoe. The excavation of the soils was observed by Ned Shanahan of Shanahan Consulting.

The cleanup was guided by the blue coloration of the soils. The excavation proceeded to a depth ranging from approximately 1 to 2½ feet below ground surface. Figure 9 presents the approximate limits of the soil removal area, which was of irregular shape.

After the removal of the contaminated soil, Ned Shanahan collected 11 post-excavation soil samples (BR1-BR11) on the edges and bottom of the removal area. The soil samples were placed in a chilled cooler and were transported to Connecticut Testing Laboratories for analysis for lead and mercury (by mass analysis methods) and for leachable chromium, lead, and mercury by the SPLP method. Lead and mercury were selected as the primary parameters for testing because they had exceeded remediation criteria in previous tests of the blue residue. The SPLP chromium tests were erroneously requested, due to a mistaken belief that overburden deposits in the area of the residue did not contain ground water (a condition that would have resulted in the applicability of "GA" soil remediation criteria even though the site is in a "GB" ground water zone). After the soil removal effort, we installed an overburden monitor well adjacent to the removal area (well W6) that demonstrated the presence of overburden ground water.

The results of the laboratory analysis of the post-excavation soils are presented in Appendix C and are summarized in the table below.

POST-EXCAVATION SOIL TESTS - BLUE RESIDUE REMEDIATION
Concentrations as shown

SAMPLE	BR1	BR2	BR3	BR4	BR5	BR6	BR7	PMC	DEC	
DEPTH	0-0.3'	0-0.3'	0-0.3'	0-0.3'	0-0.3'	0-0.3'	0-0.3'		Resid.	Comm.
Lead (mg/kg)	28.6	271	79.3	59.3	75.4	137	79.2	NA	500	1000
Mercury (mg/kg)	0.07	1.77	0.38	0.23	0.25	0.47	0.23	NA	20	610
SPLP Chromium (mg/L)	ND	ND	ND	ND	ND	ND	ND	0.5	NA	NA
SPLP Lead (mg/L)	0.006	0.013	0.005	0.006	0.013	0.011	ND	0.15	NA	NA
SPLP Mercury (mg/L)	ND	ND	ND	ND	ND	ND	ND	0.02	NA	NA

POST-EXCAVATION SOIL TESTS - BLUE RESIDUE REMEDIATION Concentrations as shown							
SAMPLE	BR8	BR9	BR10	BR11	PMC	DEC	
DEPTH	1½'	2'	2'	2½'		Resid.	Comm.
Lead (mg/kg)	48.5	3.4	5.8	5.5	NA	500	1000
Mercury (mg/kg)	0.13	ND	0.06	0.09	NA	20	610
SPLP Chromium (mg/L)	ND	ND	ND	ND	0.5	NA	NA
SPLP Lead (mg/L)	0.006	ND	ND	ND	0.15	NA	NA
SPLP Mercury (mg/L)	ND	ND	ND	ND	0.02	NA	NA

Notes: 1. ND means not detected. NA means remediation criteria not applicable to this analysis.
2. Pollutant Mobility Criteria [PMC] and Direct Exposure Criteria [DEC] are taken from the DEP Remediation Standard Regulations [C.G.S. Section 22a-133k].

The post-excavation test data indicate that the remediation effort successfully removed soils containing the sought metals over applicable remediation criteria. Further soil removal in the area of the blue residue was not necessary.

The blue residue cleanup generated an estimated 65 tons of contaminated soils which were stockpiled on plastic and covered with plastic pending disposal arrangements.

B. Supplemental Removal of Arsenic-Containing Soils East of Garage

As was discussed previously, the soil remediation performed in August 2002 by Underground Systems at the former underground gasoline tank east of the garage appeared to have successfully removed petroleum contamination associated with the tank, but two samples of soil left in place (samples PE6 and PE7) contained arsenic at concentrations above the residential and commercial Direct Exposure Criterion of 10 mg/kg.

To address the arsenic soil contamination, on 9 July, 29 July, and 31 August 2004, soils were excavated and removed to deepen and extend the initial gasoline tank cleanup area. The supplemental remediation was performed by workers for the Town of East Haddam using a backhoe and was observed by Ned Shanahan of Shanahan Consulting.

The results of the laboratory analysis of the post-excavation soils for each of the three supplemental removal efforts east of the garage are presented in Appendix C and are summarized in the tables below. The approximate locations of the samples and the removal area are shown on Figure 8. We labeled post excavation soil samples using an additional "P" for each separate removal event (i.e. the second supplemental event used sample labels of PPE1-PPE6, the third event used sample labels of PPPE1-PPPE7, and the fourth event used labels 4PE1-4PE4). Soil excavated from the area east of the garage in the summer of 2004 was placed on plastic and covered with plastic pending arrangements for off-site disposal.

POST-EXCAVATION SOIL TESTS - 7-9-04 SOIL REMOVAL EVENT EAST OF GARAGE Concentrations as shown									
SAMPLE LOCATION DEPTH	PPE1 Bottom 8'	PPE2 Side 5'	PPE3 Bottom 8'	PPE4 Bottom 8'	PPE5 Side 6'	PE6 Side 5'	Pollutant Mobility Criteria	Direct Exposure Criteria	
								Resid.	Comm.
AVOCs (mg/kg)	ND	ND	ND	ND	ND	ND	Varies	Varies	Varies
ETPH (mg/kg)	ND	ND	ND	ND	ND	ND	2500	500	2500
Arsenic (mg/kg)	5.4	10.7	4.5	6.1	10.1	11.6	NA	10	10
Lead (mg/kg)	1.3	3.1	1.4	1.8	2.8	2.7	NA	500	1000

Notes: 1. ND means not detected. NA means remediation criteria not applicable to this analysis. AVOCs are aromatic volatile organic compounds. VOCs are volatile organic compounds.
2. Pollutant Mobility Criteria and Direct Exposure Criteria are taken from the DEP Remediation Standard Regulations [C.G.S. Section 22a-133k].
3. Test results exceeding remediation criteria have been highlighted with thick lines.

The 9 July 2004 removal effort at the gasoline tank involved the deepening of the area of sample PE7 from 3 feet to approximately 8 feet and extending the northern wall of the original excavation by approximately 4 feet. Soil was left in place under a stoop for a rear pedestrian door due to concerns that the stoop might collapse into the hole. Post excavation samples PPE2 (collected under the stoop), PPE5 (on the north wall), and PPE6 (on the east wall) exceeded the arsenic remediation criteria of 10 mg/kg and further soil removal was therefore warranted.

POST-EXCAVATION SOIL TESTS - 7-29-04 SOIL REMOVAL EVENT EAST OF GARAGE Concentrations as shown										
SAMPLE LOCATION DEPTH	PPPE1 Side 5'	PPPE2 Side 5'	PPPE3 Bottom 8'	PPPE4 Side 3'	PPPE5 Bottom 5'	PPPE6 Bottom 3½'	PPPE7 Side 3'	Pollutant Mobility Criteria	Direct Exposure Criteria	
									Resid.	Comm.
VOCs (mg/kg)	---	---	---	ND	ND	ND	ND	Varies	Varies	Varies
ETPH (mg/kg)	---	---	---	ND	ND	ND	ND	2500	500	2500
PCBs (mg/kg)	---	---	---	ND	ND	ND	ND	NA	1	10
Arsenic (mg/kg)	13.9	11.0	4.3	8.0	10.4	8.4	17.0	NA	10	10
Lead (mg/kg)	---	---	---	244	3.0	12	5.0	NA	500	1000
SPLP Lead (mg/L)	---	---	---	ND	ND	ND	ND	0.15	NA	NA

Notes: 1. ND means not detected. — means sample not tested for thisparameter. NA means remediation criteria not applicable to this analysis. AVOCs are aromatic volatile organic compounds. VOCs are volatile organic compounds.
2. Pollutant Mobility Criteria and Direct Exposure Criteria are taken from the DEP Remediation Standard Regulations [C.G.S. Section 22a-133k].
3. Test results exceeding remediation criteria have been highlighted with thick lines.

During the second supplemental soil cleanup event on 29 July 2004, the excavation was extended to the north and east to depths ranging from approximately 3½ to 5 feet. In addition, soil was removed from under the door stoop (the stoop was found to be connected to the building and did not fall into the hole).

During the work, a concrete pad for a reported former aboveground tank (reportedly a heating oil tank) was observed against the eastern wall of the garage. A limited quantity of oily soils were seen in the area of the pad, apparently due to surface spills. The oily soils were removed and post excavation soil samples from the general area of the pad (samples PPPE4-PPPE7) were tested for arsenic, ETPH, VOCs, PCBs, lead, and SPLP lead due to concerns that a fuel or waste oil spill might have occurred. The remaining post excavation soil samples (PPPE1-PPPE3) were tested for arsenic. Each of the post excavation soil samples collected at a depth of 5 feet (including sidewall samples PPPE1, PPPE2, and PPPE7 and bottom sample PPPE5 contained arsenic above the 10 mg/kg remediation goal, necessitating further soil removal.

POST-EXCAVATION SOIL TESTS - 8-31-04 SOIL REMOVAL EVENT EAST OF GARAGE
Concentrations as shown

SAMPLE LOCATION DEPTH	4PE1 Side 6'	4PE2 Side 5'	4PE3 Bottom 6½'	4PE4 Side 5'	Pollutant Mobility Criteria	Direct Exposure Criteria	
						Resid.	Comm.
Arsenic (mg/kg)	4.9	9.5	4.8	24.2	NA	10	10
SPLP Arsenic (mg/L)	---	---	---	ND	0.5	NA	NA

Notes: 1. ND means not detected. — means sample not testedor this parameter. NA means remediation criteria not applicable to this analysis. AVOCs are aromatic volatile organic compounds. VOCs are volatile organic compounds.
2. Pollutant Mobility Criteria and Direct Exposure Criteria are taken from the DEP Remediation Standard Regulations [C.G.S. Section 22a-133k].
3. Test results exceeding remediation criteria have been highlighted with thick lines.

The final soil removal event was performed on 31 August 2004 and involved extending the hole to the north and east and deepening the hole. During our excavation work, we noted that soils in the area exhibited three distinct layers, as follows: (1) an upper layer of silty subsoil between the ground surface and a depth of approximately 3 to 3½ feet, (2) a middle layer of sand and gravel between the base of the silty subsoil and a depth ranging from approximately 6 to 8½ feet, and (3) a base layer of blonde sand starting at a depth of approximately 6 to 8½ feet. Our tests of bottom samples had consistently shown that the blonde sand layer met arsenic remediation criteria. The blonde sand layer had been observed at a depth of 8 to 8 ½ feet in the southern part of the cleanup area where soil removal had begun in August 2002, but was observed at a considerably shallower depth of 6 or 6½ feet on the northern end of the hole where soil removal had occurred more recently.

After the 31 August removal effort, four post excavation soil samples were collected for analysis for arsenic. Sample 4PE4 (on the eastern side wall) contained arsenic at 24.2 mg/kg, the highest arsenic concentration detected in the area to that time. The remaining three post excavation samples met the 10 mg/kg remediation criterion. Sample 4PE4 was analyzed for SPLP arsenic to evaluate whether the soil posed a significant threat of ground water contamination. SPLP arsenic was not detected in the 4PE4 sample. The eastern wall of the hole was located a few feet west of a reported underground sanitary sewer line and further digging in the area of 4PE4 would have threatened the integrity of the line. We elected to halt the soil removal effort and to evaluate the extent of the arsenic contamination by collecting soil samples from borings (as is discussed below).

In summary, contaminated soils were removed from the former gasoline tank area east of the garage in four separate events between August 2002 and August 2004. Post excavation soil samples marking the final limits of the hole (samples 4PE1-4PE4, PPPE2, PPPE3, PPE1, PPE3, PPP4, PE8-PE12 on Figure 8) met remediation criteria with the exception of sample 4PE4 which contained arsenic at 24.2 mg/kg. Waste

soils generated during the three removal events in the summer of 2004 (estimated at roughly 180 tons) were stockpiled on plastic and covered with plastic.

C. Disposal of Waste Soils Generated During Supplemental Soil Removal Effort

On 29 July 2004, Ned Shanahan collected a composite of the waste soil generated during the excavation of the blue residue waste pile (soil sample W1) and a separate composite sample of waste soil excavated in the first two supplemental soil removal events in the area east of the garage (sample W2). The two soil samples were tested for VOCs, 8 RCRA metals by mass analysis and TCLP methods, PCBs, semivolatile organic compounds by EPA Method 8270, ETPH, and reactive cyanide and sulfide. The results of the waste soil laboratory analyses are presented in Appendix C. The soils were found to be non-hazardous under RCRA regulations and were found to be acceptable for disposal at the Cottage Street landfill in Springfield, Massachusetts operated by Waste Management, Inc.

From 22 November through 7 December 2004, the waste soils generated during the blue residue cleanup and the three supplemental cleanup events at the gasoline tank area east of the garage (totaling 245.96 tons) were transported to the Cottage Street landfill for disposal. Material Shipping Record & Logs, weigh tickets, and invoices from the November/December disposal are included in Appendix D. One of the weigh tickets (No. 19868, 21.73 tons, dated 11/23/04) incorrectly shows the source of one truckload of soil as Adrieans Landing (an unrelated remediation effort in Hartford, Connecticut) due to a clerical error at Waste Management. However, the Material Shipping Record & Log and the invoice both demonstrate that the 21.73-ton shipment was part of the East Haddam cleanup. Our attempts to obtain a corrected Ticket No. 19868 from Waste Management were not unsuccessful.

D. Additional Explorations and Testing to Evaluate Remnant Arsenic Contamination

On 5 April 2005, nine borings (AS1-AS9) were drilled by Associated Borings, Co., Inc. using a hollow-stem auger rig to evaluate the remnant arsenic contamination on the eastern wall of the soil cleanup area east of the garage. The drilling was observed by Ned Shanahan of Shanahan Consulting. The approximate locations of the borings are shown on Figure 4. Driller's logs for the borings are presented in Appendix F.

The arsenic contamination was marked by sidewall sample 4PE4 collected at a depth of 5 feet below ground surface. Sample 4PE4 contained 24.2 mg/kg of arsenic, but SPLP arsenic was not detected in the sample.

The following table summarizes the soil samples collected from the nine borings.

SOIL SAMPLES FROM BORINGS AS1-AS9					
SAMPLE	DEPTH (FT.)	DESCRIPTION	SAMPLE	DEPTH (FT.)	DESCRIPTION
AS1S1	1-3	silty soil	AS6S1	1-3	silty soil
AS1S2	3-5	sand & gravel	AS6S2	3-5	sand & gravel
AS1S3	5-6	sand & gravel, blonde sand at 6'	AS6S3	5-6	sand & gravel, blonde sand at 6'
AS2S1	1-3	silty soil	AS7S1	1-2½	silty soil
AS2S2	3-5	sand & gravel	AS7S2	3-5	sand & gravel
AS2S3	5-6	sand & gravel, sand at 6'	AS7S3	5-6	sand & gravel, blonde sand at 6'
AS3S1	1-3	silty soil	AS8S1	1-3	silty soil
AS3S2	3-5	sand & gravel	AS8S2	3-5	sand & gravel
AS3S3	5-6½	sand & gravel, blonde sand at 6½'±	AS8S3	5-6	sand & gravel, blonde sand at 6'
AS4S1	1-3	silty soil	AS9S1	1-3	silty soil
AS4S2	3-5	sand & gravel	AS9S2	3-5	no recovery, no sand & gravel evident
AS4S3	5-6½	sand & gravel, blonde sand at 6½'±	AS9S3	5-7	blonde sand
AS5S1	1-3	silty soil, cinders			
AS5S2	3-5	sand & gravel			
AS5S3	5-6½	sand & gravel, blonde sand at 6½'±			

Nineteen soil samples from the borings were submitted to the laboratory for analysis for arsenic. The results of the laboratory tests are presented in Appendix H and are summarized in the tables below.

SOIL TEST DATA - ARSENIC EVALUATION Concentrations as shown											
SAMPLE	AS1S1	AS1S2	AS1S3	AS2S1	AS2S3	AS3S1	AS3S2	AS3S3	PMC	DEC	
DEPTH	1-3'	3-5'	5-6'	1-3'	5-6'	1-3'	3-5'	5-6½'		Res.	Com.
Arsenic (mg/kg)	8.3	17.9	24.6	5.8	14.1	2.3	8.2	8.1	NA	10	10

SAMPLE	AS4S1	AS4S3	A5S1	AS5S3	AS6S1	AS6S3	AS7S1	AS7S3	PMC	DEC	
DEPTH	1-3'	5-6½'	1-3'	5-6½'	1-3'	5-6'	1-2½'	5-6'		Res.	Com.
Arsenic (mg/kg)	2.6	8.2	ND	8.5	8.6	5.5	6.9	8.1	NA	10	10

SAMPLE	AS8S1	AS8S3	AS9S1	PMC	DEC	
DEPTH	1-3'	5-6'	1-3'		Res.	Com.
Arsenic (mg/kg)	8.5	6.3	6.6	NA	10	10

Notes: 1. ND means not detected. —means sample not tested for this parameter. NA means remediation criteria not applicable to this analysis.
2. Pollutant Mobility Criteria and Direct Exposure Criteria are taken from the DEP Remediation Standard Regulations [C.G.S. Section 22a-133k].
3. Test results exceeding remediation criteria have been highlighted with thick lines.

The data collected during the arsenic evaluation revealed that the arsenic soil contamination was limited to two borings near the eastern edge of the cleanup excavation (AS1, AS2). With the exception of soil samples collected from AS1 and AS2, arsenic concentrations met remediation criteria. At AS1 and AS2, elevated concentrations of arsenic were found in the middle sand and gravel layer, observed at a depth interval of approximately 3 to 6 feet below ground surface. Tests of the upper silty soil layer did not detect arsenic exceedances and several previous tests of the lower blonde sand layer (during our prior cleanup efforts) had not detected arsenic over the remediation criterion. The source of the contamination is not known, but it does not appear to be of natural origin given its localized distribution.

On Figure 8, we have shown an approximate area where remnant arsenic contamination is suspected. The contamination zone covers an area of approximately 500 square feet over a depth interval of 3 to 6 feet (the quantity of remnant contaminated soils is estimated at approximately 100 tons).

The highest concentration of arsenic detected in the boring program was 24.6 mg/kg in sample AS1S3, collected adjacent to the eastern edge of the soil removal area. A sidewall sample collected in the vicinity of AS1 after the soil cleanup (sample 4PE4) contained arsenic at 24.2 mg/kg, showing good agreement with the data from the boring program. SPLP arsenic was not detected in sample 4PE4 suggesting that the arsenic in the soils does not pose a significant ground water contamination threat. Given that the arsenic-containing soils are below a depth of 3 feet, direct exposure with the soils is unlikely. An underground sanitary sewer line is located within the area of remnant contamination, which would complicate efforts to remove the contaminated soils.

IX. CONCLUSIONS AND RECOMMENDATIONS

A. Likelihood of Subsurface Contamination on Site

The site consists of adjoining properties at 1 Main Street and 7 Main Street in the center of East haddam. The property at 7 Main Street is currently occupied by the East Haddam town hall and was formerly occupied by a bank, a lumber company, and a residence. The 1 Main Street property includes the River House (town offices), a generator building used by the Connecticut Department of Transportation in connection with their operation of a nearby drawbridge over the Connecticut River, and a largely vacant garage last used by the Town of East Haddam department of public works. The generator building is located on a perpetual easement granted to the state by the town. Historically, the property at 1 Main Street was used for residential purposes and as a bridge maintenance operation by the State of Connecticut. The site appears to be an "establishment" under the Connecticut Transfer Act (CGS 22a-134 through 134e).

Work performed on site for this assessment and remediation effort included: (1) the removal of three underground tanks, including the excavation and disposal of approximately 121 tons of petroleum-contaminated soils associated with two of the tanks; (2) the drilling of 39 soil borings; (3) the installation of six overburden monitor wells (supplementing two existing bedrock monitor wells and one existing overburden monitor well); (4) the collection and test screening of 79 soil samples; (5) the measurement of VOCs in soil gas at 19 locations under the garage floor; (6) the laboratory testing of 66 soil samples from the exploration program and eight ground water samples; and (7) the removal of approximately 245 additional tons of arsenic-contaminated soils east of the garage and metal-contaminated soils behind town hall in a supplemental remediation effort.

1. Soil Quality

We observed shallow soils containing a blue residue with elevated levels of mercury and lead in an area behind the town hall at 7 Main Street. The contaminated soils were successfully excavated and removed for off-site disposal and samples of soil remaining in place after the soil removal met applicable remediation criteria established by the Connecticut Department of Environmental protection [DEP] in the Remediation Standard Regulations [RSRs].

An underground heating oil tank and an underground gasoline tank were removed from an area adjacent to the eastern wall of the garage building.

Contaminated soils associated with the heating oil tank were removed and taken off site for disposal. Samples of soil remaining in place in the heating oil tank remediation area met applicable remediation criteria in the RSRs.

Several iterations of soil removal were performed in the area of the gasoline tank, beginning in August 2002 and ending in August 2004. The soil cleanup at the gasoline tank successfully removed soils containing petroleum contaminants, but arsenic remained on the eastern wall of the soil cleanup area after the final removal event. Borings were drilled to further evaluate the remnant arsenic contamination and our tests indicated that an area covering roughly 500 square feet over a depth interval of approximately 3 to 6 feet below the ground surface may contain arsenic over the 10 mg/kg remediation criterion. The remnant arsenic does not appear to pose a significant risk of ground water contamination given the absence of leachable arsenic in our analysis of one of the most polluted samples. An underground sanitary sewer line is located within the zone of suspected contamination, complicating any attempt to remove the soil at present.

We did not detect exceedances of soil remediation criteria at other areas of concern evaluated on the property. At two of these locations, we detected evidence of minor spills, as is discussed below:

1. We detected an apparent minor spill of petroleum product under the garage floor near a floor drain, but the highest concentration of ETPH detected in soils from the area was 495 mg/kg, which is below the strictest remediation criterion of 500 mg/kg. At the floor drain, we drilled three borings (TG14, TG22, TG23) and tested a total of six soil samples. Only one additional soil sample contained ETPH (at 59 mg/kg). Significantly, moist or wet soil samples collected at the water table at the three borings did not contain ETPH, suggesting ground water had not been impacted. We did not detect PCBs, VOCs, or significant concentrations of metals in soils from the area. We do not believe that further evaluation of soils in the apparent spill area is warranted.

2. We noted a petroleum odor in a soil sample collected in a pavement patch marking the location of a former underground gasoline tank and pump outside the southwestern corner of the garage. However, laboratory analysis of the odorous sample and of five other soil samples from the area did not reveal the presence of aromatic VOCs. Lead and SPLP lead concentrations in the six soil samples did not exceed remediation criteria. Further evaluation of soils in the former southwestern tank area does not appear to be warranted.

2. Ground Water Quality

Ground water sampling points on site consist of six overburden monitor wells installed during our assessment (W1-W6), one overburden monitor well (MW3) and two bedrock monitor wells (MW1, MW2) installed by a previous investigator, and the bedrock supply well. In January 2004, we sampled the supply well and monitor wells MW1-MW3 and W1-W4. Monitor wells W5and W6 were installed after the January 2004 sampling event and have not been tested.

Ground water on site is classified "GB" (degraded), but our tests indicate that site ground water exhibits generally good quality.

In particular, we did not detect VOCs or ETPH in ground water samples collected at the five sampled overburden wells, suggesting that ground water has not been impacted by petroleum products used on site. We did not detect ETPH in the two bedrock wells, suggesting that the detection of TPH in these wells in August 2000 may have been due to natural organic materials.

Chloroform (a VOC) was detected at low concentrations in bedrock monitor well MW2 (at 0.6 ug/L) and in the supply well sample (at 1.0 ug/L). The source(s) of the chloroform are not known. Chloroform is a commercial solvent and a byproduct of the chlorination of public water supplies and may be introduced into water samples during sample collection or laboratory analysis. The absence of chloroform in the overburden well samples suggests that chloroform has not been spilled on site.

Elevated levels of the metals arsenic, chromium, and lead were detected in unfiltered samples of ground water collected from the two bedrock monitor wells (MW1, MW2) in August 2000. Our recent tests of unfiltered samples from the bedrock monitor wells and from four newly-installed overburden wells (W1-W4) for these three metals detected lead above Ground Water Protection Criteria [GWPC] in five of the six wells. Arsenic was detected at concentrations below GWPC and chromium was not detected in the recently-collected unfiltered well samples. We also tested filtered samples from the six monitor wells for dissolved arsenic, chromium, and lead and detected no exceedances of remediation criteria. Given the silty character of the unfiltered samples, we suspect that the total metal detections are due to the presence of sediment in the samples and are not associated with ground water contamination. Low flow sampling (which reduces the sediment content of samples) may be appropriate to further evaluate whether the metal detections are due to silt in unfiltered samples.

Water samples collected from the supply well in August 2000 and January 2004 met drinking water limits for the parameters tested.

3. Evaluation of Areas of Concern

The table below summarizes our assessment of potential areas of concern identified on the site.

AREAS OF CONCERN 1 & 7 Main Street, East Haddam	
CONCERN	EVALUATION
Blue Residue on Ground Surface Behind Town Hall	Analysis of soil containing the blue residue revealed elevated concentrations of mercury and lead. A soil remediation effort was completed in July 2004 and samples of soil left in place after cleanup met soil remediation criteria.
Former Underground Gasoline Tank Behind Town Hall	The tank was reportedly removed in January 2000. Tests of soil samples from the reported area of the tank did not reveal evidence of a release. A ground water sample collected from monitor well MW3 in the area of the tank did not contain ETPH or VOCs.
Former Underground Gasoline Tank and Pump Outside Eastern Wall of Garage	The former tank and petroleum-contaminated soils were removed in 2002. A supplemental soil remediation effort was performed on three separate dates in the summer of 2004 in an unsuccessful attempt to remove the arsenic soil contamination. Post-cleanup explorations indicate that arsenic contamination remains in an area estimated at 500 square feet over a depth interval of approximately 3 to 6 feet below the ground surface.
Former Underground Heating Oil Tank Outside Eastern Wall of Garage	The former tank and associated contaminated soils were removed in 2002. Post-excavation soil samples met remediation criteria. A ground water sample collected from monitor well W4 on the edge of the cleanup area did not contain ETPH or VOCs.
Unknown Pump on 1932 Map in Southeastern Corner of Site	Contamination was not detected in soil samples collected in boring TG5 drilled to the water table in the area of the pump.
Possible Former Underground Heating Oil Tank Between Garage and Former Storage Building Behind Town Hall	ETPH was not detected in soil samples collected at the water table in two borings drilled in the area where a vent pipe terminated under ground.
Inactive Septic System and Well MW1 Area	Six borings drilled to the apparent bedrock surface did not encounter evidence of contamination. Laboratory tests of seven soil samples for ETPH and two soil samples for VOCs did not detect contaminants. Ground water from MW1 did not contain ETPH or VOCs.
Former Underground Gasoline Tank and Former Aboveground Gasoline Tank West of Garage	The underground gasoline tank was removed in 2002. The aboveground gasoline tank was reportedly removed in mid 1990s. Tests of soil samples collected from the underground tank grave did not detect evidence of a spill.
Former Aboveground Heating Oil Tank Outside Eastern Wall of Garage	During soil remediation of a nearby underground gasoline tank, soil in the area of the former aboveground tank was excavated and removed, including a limited area of oily soils apparently associated with the former aboveground tank. Post excavation soil samples in the area did not contain ETPH, VOCs, PCBs, or significant concentrations of lead.
Pavement Patch for Former Underground Gasoline Tank and Pump Outside Southwestern Corner of Garage	Although a petroleum odor was noted in one soil sample collected from area, the testing of six soil samples (including the odorous sample) did not detect aromatic VOCs or concentrations of lead over remediation criteria. The testing of ground water from an overburden monitor well [W2] and a bedrock monitor well [MW2] in or adjacent to the pavement patch did not detect VOCs or ETPH.
Underground Diesel Fuel Tank at DOT Generator Building	The underground tank is located on a land easement granted to the State of Connecticut and we did not directly evaluate the tank for leakage.

AREAS OF CONCERN 1 & 7 Main Street, East Haddam	
CONCERN	EVALUATION
Underground Diesel Fuel Tank at DOT Generator Building	The underground tank is located on a land easement granted to the State of Connecticut and we did not directly evaluate the tank for leakage.
Floor Drainage Systems in Garage	Observations and soil testing at an apparent floor drainage dry well outside the eastern wall of the garage revealed no evidence of contamination from the southern floor drains. We found no evidence of contamination at the inactive septic system, a possible subsurface discharge location for other floor drains in the garage. No contamination was detected in a soil sample collected in a paved drainage ditch that may have received floor drainage discharges. A minor petroleum spill was detected under the garage floor near one of the central floor drains, but no contaminants were detected in soils above remediation criteria.
Areas Under Garage Floor	The area under the garage floor was evaluated using a soil gas survey and the drilling of seven borings through the floor slab. Soil samples collected under the floor did not contain contaminants above remediation criteria. An apparent minor petroleum spill was detected under the floor near one floor drain (see above discussion of floor drainage systems).

B. Ground Water Classification and Use

Our measurements of water table elevations indicate that overburden ground water on site generally flows toward the south or southeast.

Although local ground water is classified "GB" (degraded), the site and nearby properties use individual wells for supply purposes. We did not identify public drinking water supply wells within one mile of the site. The site is not included in Aquifer Protection Areas mapped by the DEP.

C. Future Actions

Possible future actions that may be performed to address lingering environmental issues are discussed below along with rough estimates of the costs of these actions. The cost estimates should be used with caution and should be revised as additional data are collected.

1. Address remnant arsenic-contaminated soils east of garage.

Estimated cost: **$10,000 to $15,000 to excavate and remove estimated 100 tons of soil (including post excavation soil testing and consulting fees).**

No cost to cover soils with a new building if feasible.

The arsenic-contaminated soils appear to be at least 3 feet below the ground surface and therefore appear to pose no immediate threat of direct exposure. Our laboratory tests suggest that the contaminated soils do not pose a significant risk of ground water contamination. Given these data, the excavation and removal of the buried soils does not appear to be necessary at this time, especially given that an underground sanitary sewer line is located in the contaminated area.

However, future plans for the redevelopment of the site should consider whether the contaminated soils will be covered by a new building (thereby rendering them inaccessible and environmentally isolated) or whether the soils should be excavated and removed during construction work.

2. Monitor ground water.

Estimated costs:

One round of tests in near future - $5000

Possible later testing program:

One year of compliance monitoring - $15,000 to $20,000
Post remediation monitoring (possibly for 1-3 years) - $5000 per year

The future transfer of the site under the Connecticut Transfer Act would likely necessitate the monitoring of site ground water for several years. Transfer Act ground water monitoring would likely include the collection of quarterly samples for one year (compliance monitoring), following the collection of semiannual samples for a period that might range from one to three years (post remediation monitoring).

However, we do not believe that the initiation of a full monitoring program prior to a transfer is appropriate. For instance, if the monitoring were started now, then the any future excavation and removal of the remnant arsenic-contaminated soils would likely trigger the need to re-start the monitoring program thereby increasing costs.

At this time, we recommend that one round of ground water samples be collected from the monitor well network for laboratory testing to provide more data concerning ground water conditions. Wells W5 and W6, which have not yet been sampled, should be included in the round of tests. The sampling event should include low flow sampling to evaluate previous detections of metals in ground water. All wells should be surveyed to update the ground water flow map.

After future plans for the site have been finalized and the remnant arsenic-contaminated soils have been addressed, then a more complete ground water testing program may be necessary.

3. Evaluation of Underground Diesel Fuel Tank on State Easement

We do not believe that it is appropriate for the Town of East Haddam to undertake evaluations of the integrity of the tank used the State of Connecticut. If the condition of the tank needs to be determined at the time of a future site transfer, then the state should be requested to provide the necessary data. If a leak from the tank is detected, then the state should be requested to perform remedial actions.

X. LIMITATIONS

The conclusions provided in this report are based on the scope of work conducted and the sources of information used in the course of this investigation. If additional pertinent information becomes available, it should be provided to Shanahan Consulting so that we may alter this report as necessary.

The report was prepared to be used exclusively in the assessment of subsurface contamination on site in the areas where explorations were performed and should not be used for any other purpose.

We cannot guarantee that the scope of work undertaken for this assessment will satisfy the Connecticut Department of Environmental Protection.

The work was undertaken in accordance with generally accepted environmental consulting practices. No other warranty, express or implied, is made.

SOURCES OF INFORMATION

Connecticut Department of Environmental Protection, "Connecticut Aquifer Protection Areas", September 2000.

Connecticut Department of Environmental Protection, "Community Water Systems in Connecticut, A 1984 Inventory", 1986.

Connecticut Department of Environmental Protection, "Remediation Standard Regulations", Section 22a-133k, 30 January 1996.

Connecticut Department of Environmental Protection, "Water Quality Standards", 1996.

Land-Tech Consultants, Inc., Draft Version of "Environmental Site Assessment of 1 & 7 Main Street, East Haddam, Connecticut", date 12-12-00, report provided by Mike Bartos of Land-Tech Consultants.

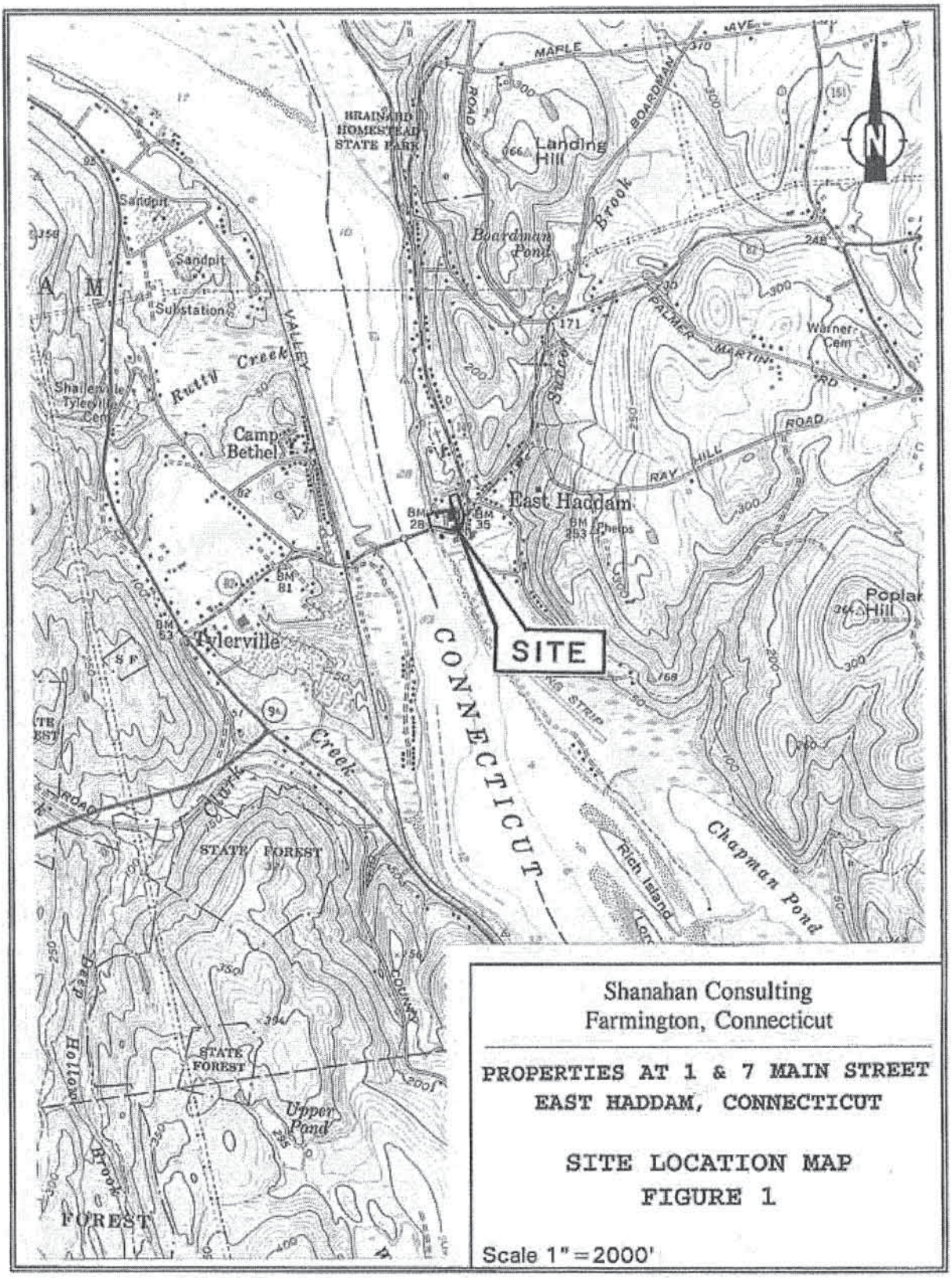
"Property Survey for Town of East Haddam in East Haddam, Connecticut", site plan prepared by Richard Ziobron, dated 3-14-88, East Haddam Town Clerk Map No. 3174.

"Topographic Map. Land Surrounding East Haddam Town Hall, East Haddam, Connecticut", prepared by URS Greiner Woodward Clyde, dated January 2000, provided by Town of East Haddam.

Shanahan Consulting, "Phase I Environmental Site Assessment of 1 & 7 Main Street, East Haddam, Connecticut", March 2002.

FIGURES

FIGURES

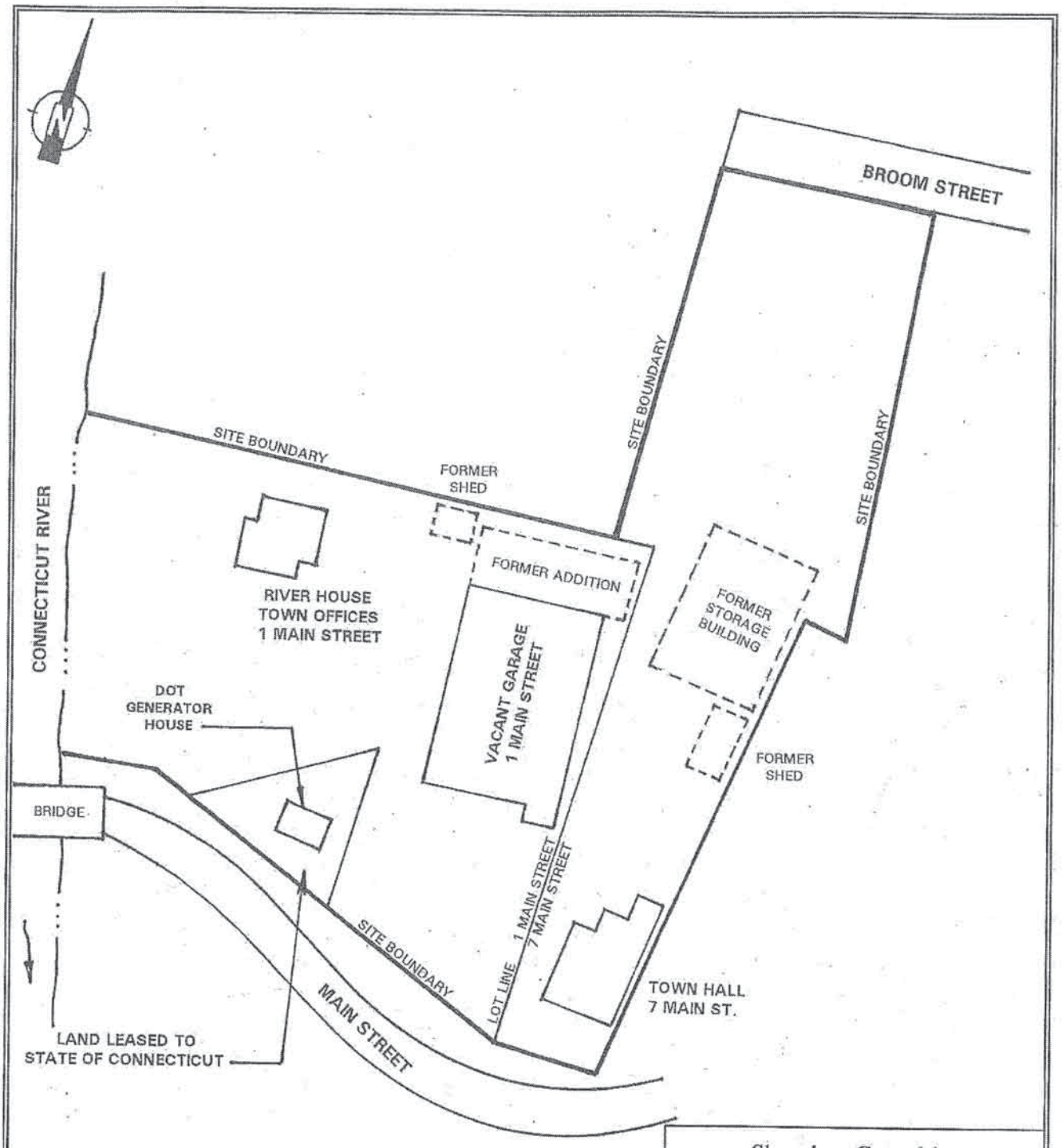


Shanahan Consulting
Farmington, Connecticut

PROPERTIES AT 1 & 7 MAIN STREET
EAST HADDAM, CONNECTICUT

SITE LOCATION MAP
FIGURE 1

Scale 1" = 2000'



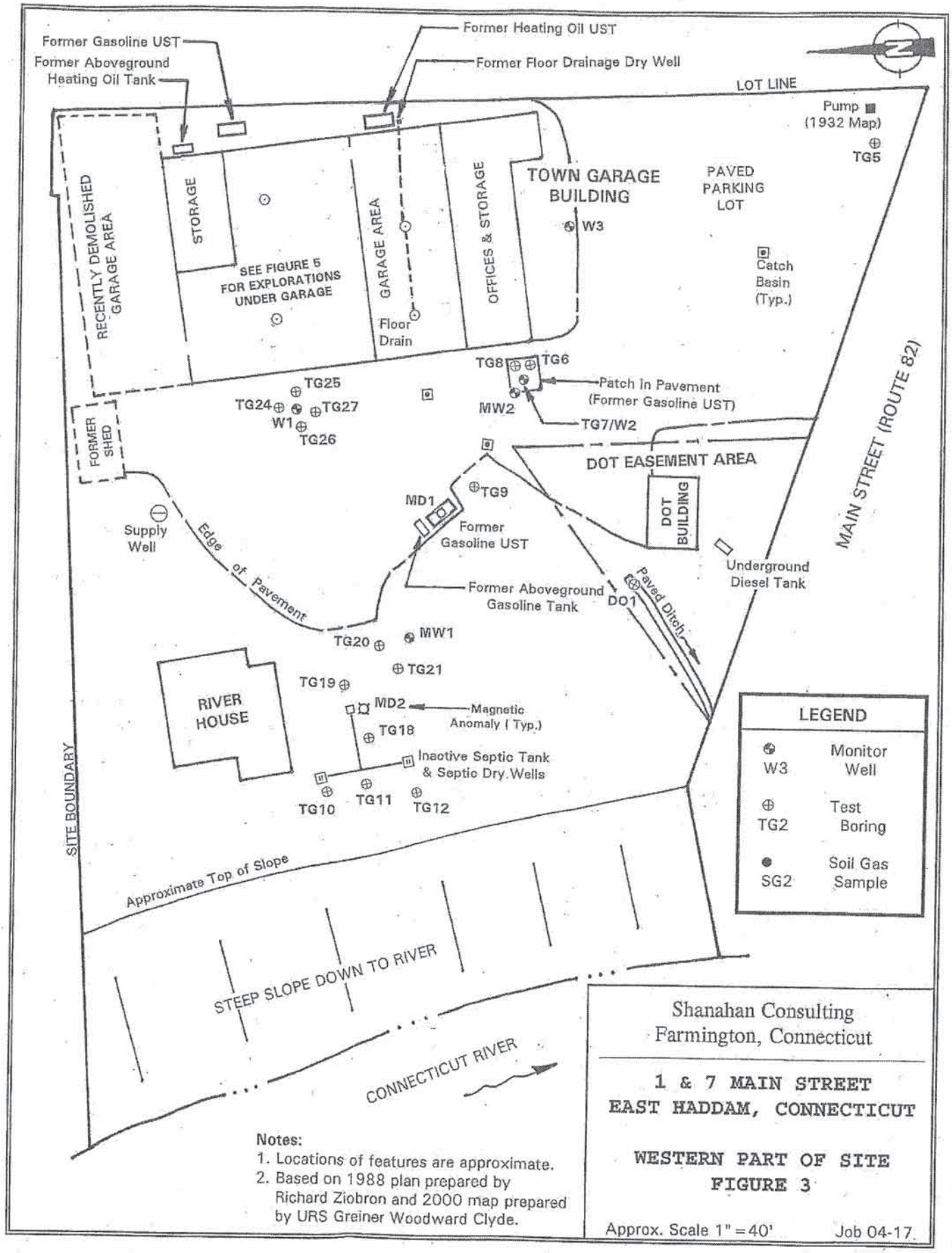
Notes: 1. Locations of features are approximate.
2. Based on 1988 plan by Richard Ziobron and 2000 map By URS Greiner Woodward Clyde.

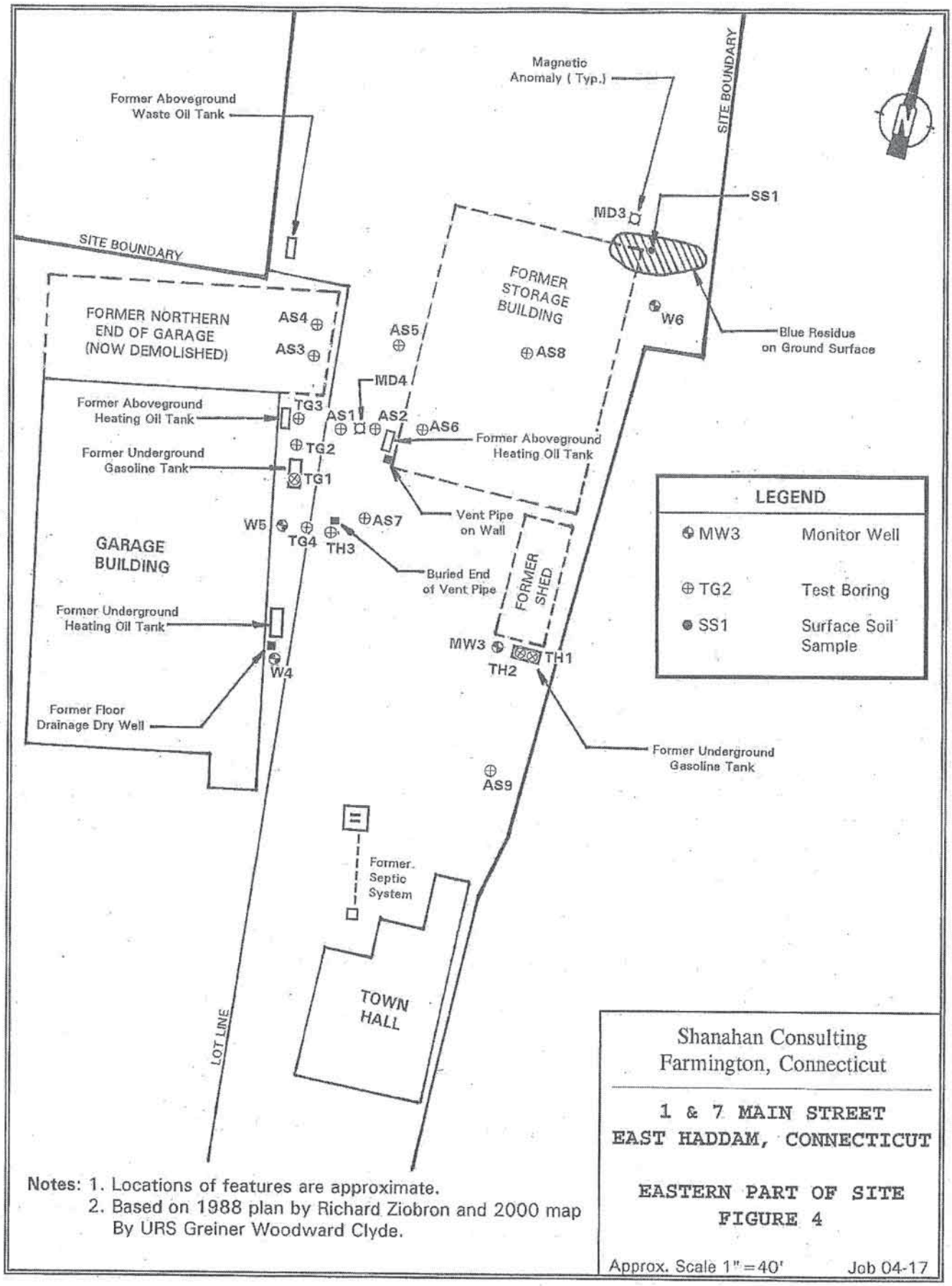
Shanahan Consulting
Farmington, Connecticut

1 & 7 MAIN STREET
EAST HADDAM, CONNECTICUT

SITE PLAN
FIGURE 2

Approx. Scale 1" = 80' Job 04-17


Former Gasoline UST
Former Aboveground Heating Oil Tank
Former Heating Oil UST
Former Floor Drainage Dry Well
LOT LINE
Pump (1932 Map)
TG5
RECENTLY DEMOLISHED GARAGE AREA
STORAGE
SEE FIGURE 5 FOR EXPLORATIONS UNDER GARAGE
GARAGE AREA
Floor Drain
OFFICES & STORAGE
TOWN GARAGE BUILDING
W3
PAVED PARKING LOT
Catch Basin (Typ.)
TG8
TG6
Patch in Pavement (Former Gasoline UST)
TG25
TG24
TG27
W1
TG26
MW2
TG7/W2
FORMER SHED
DOT EASEMENT AREA
MAIN STREET (ROUTE 82)
MD1
TG9
Supply Well
Edge of Pavement
Former Gasoline UST
DOT BUILDING
Underground Diesel Tank
Former Aboveground Gasoline Tank
DO1
Paved Ditch
TG20
MW1
TG21
TG19
RIVER HOUSE
MD2
Magnetic Anomaly (Typ.)
TG18
Inactive Septic Tank & Septic Dry Wells
TG10
TG11
TG12
SITE BOUNDARY
Approximate Top of Slope
STEEP SLOPE DOWN TO RIVER
CONNECTICUT RIVER
LEGEND
W3 Monitor Well
TG2 Test Boring
SG2 Soil Gas Sample
Notes:
1. Locations of features are approximate.
2. Based on 1988 plan prepared by Richard Ziobron and 2000 map prepared by URS Greiner Woodward Clyde.
Shanahan Consulting
Farmington, Connecticut
1 & 7 MAIN STREET
EAST HADDAM, CONNECTICUT
WESTERN PART OF SITE
FIGURE 3
Approx. Scale 1" = 40'
Job 04-17



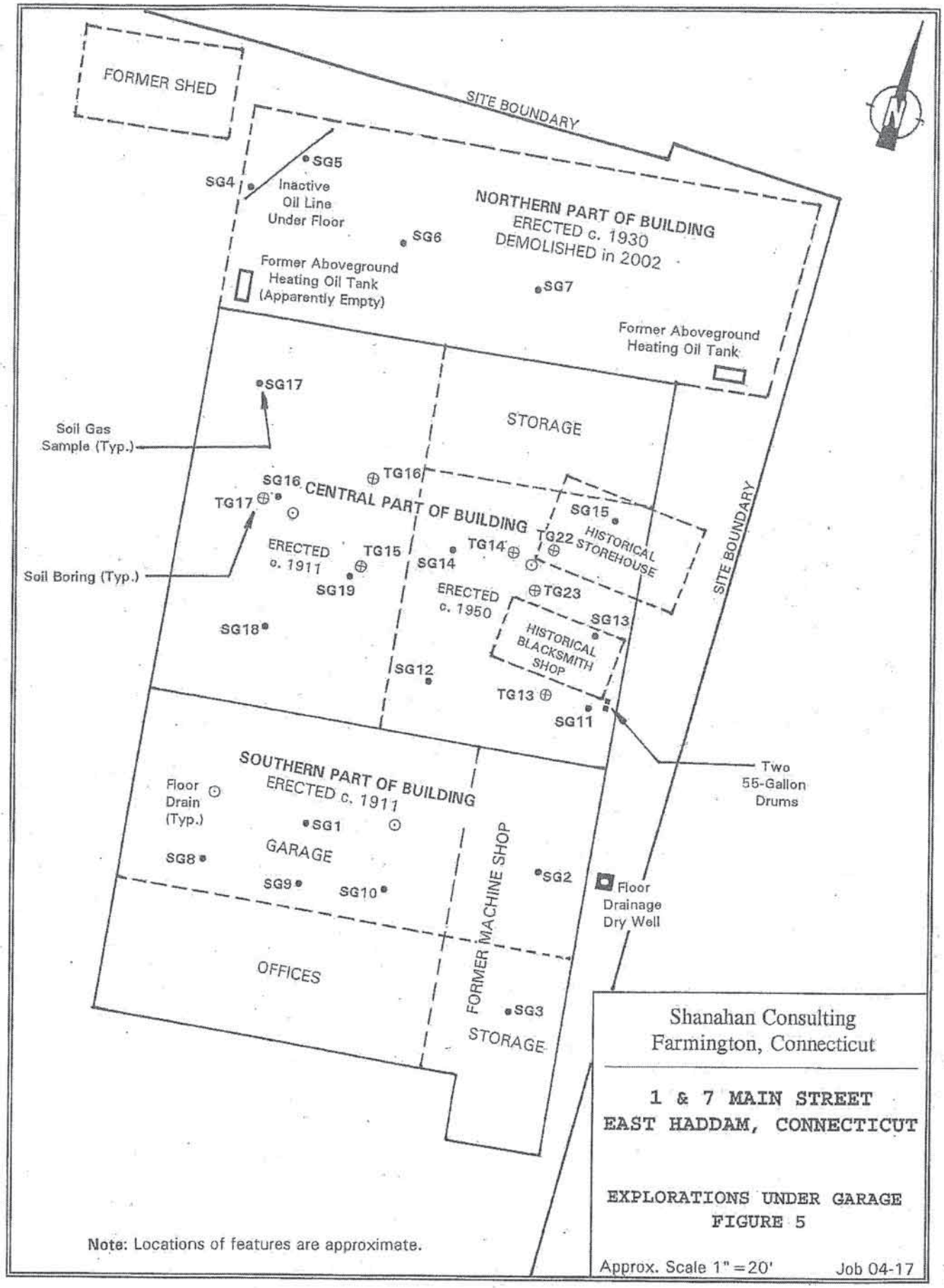
Notes: 1. Locations of features are approximate.
2. Based on 1988 plan by Richard Ziobron and 2000 map By URS Greiner Woodward Clyde.

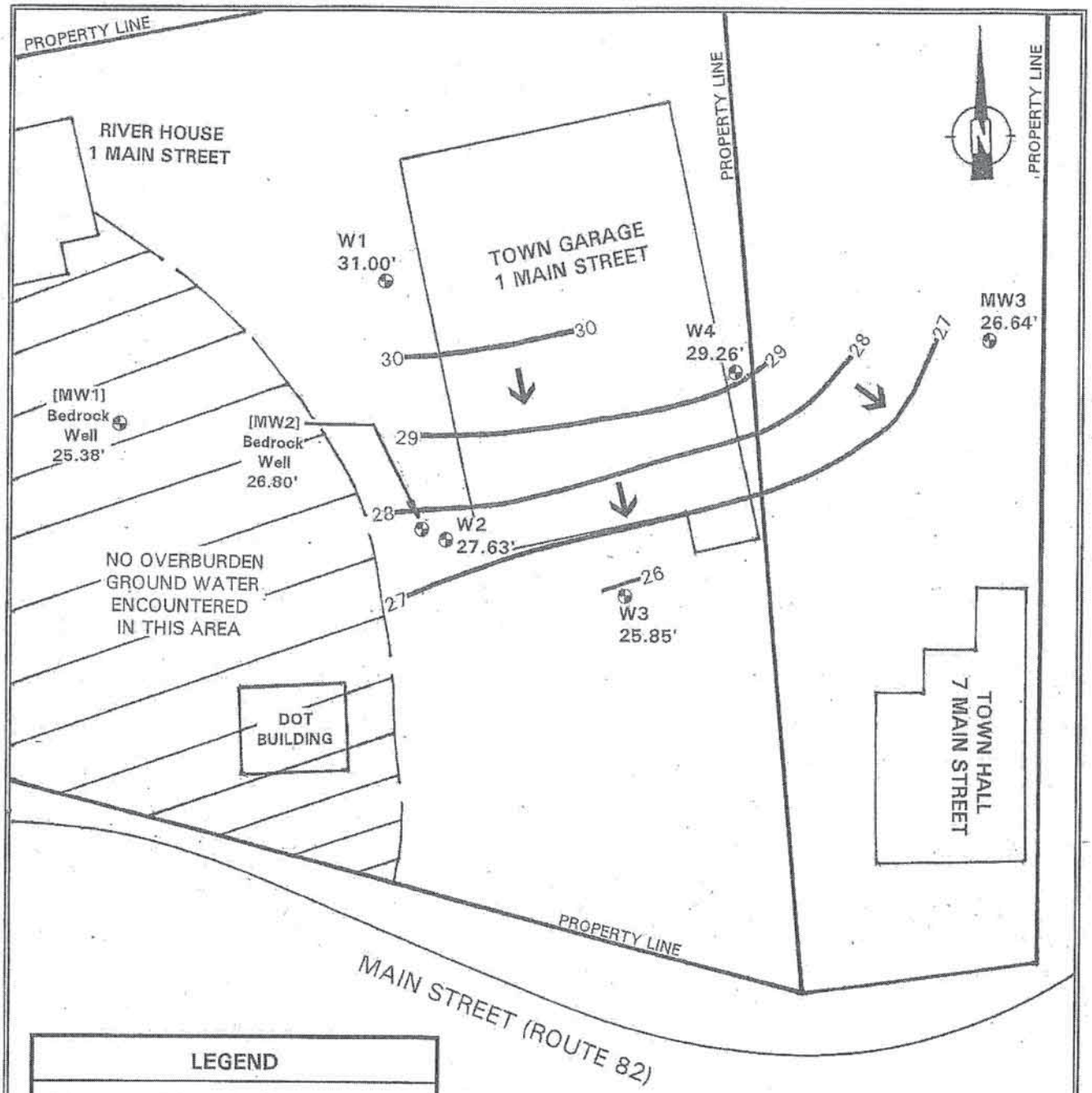
Shanahan Consulting
Farmington, Connecticut

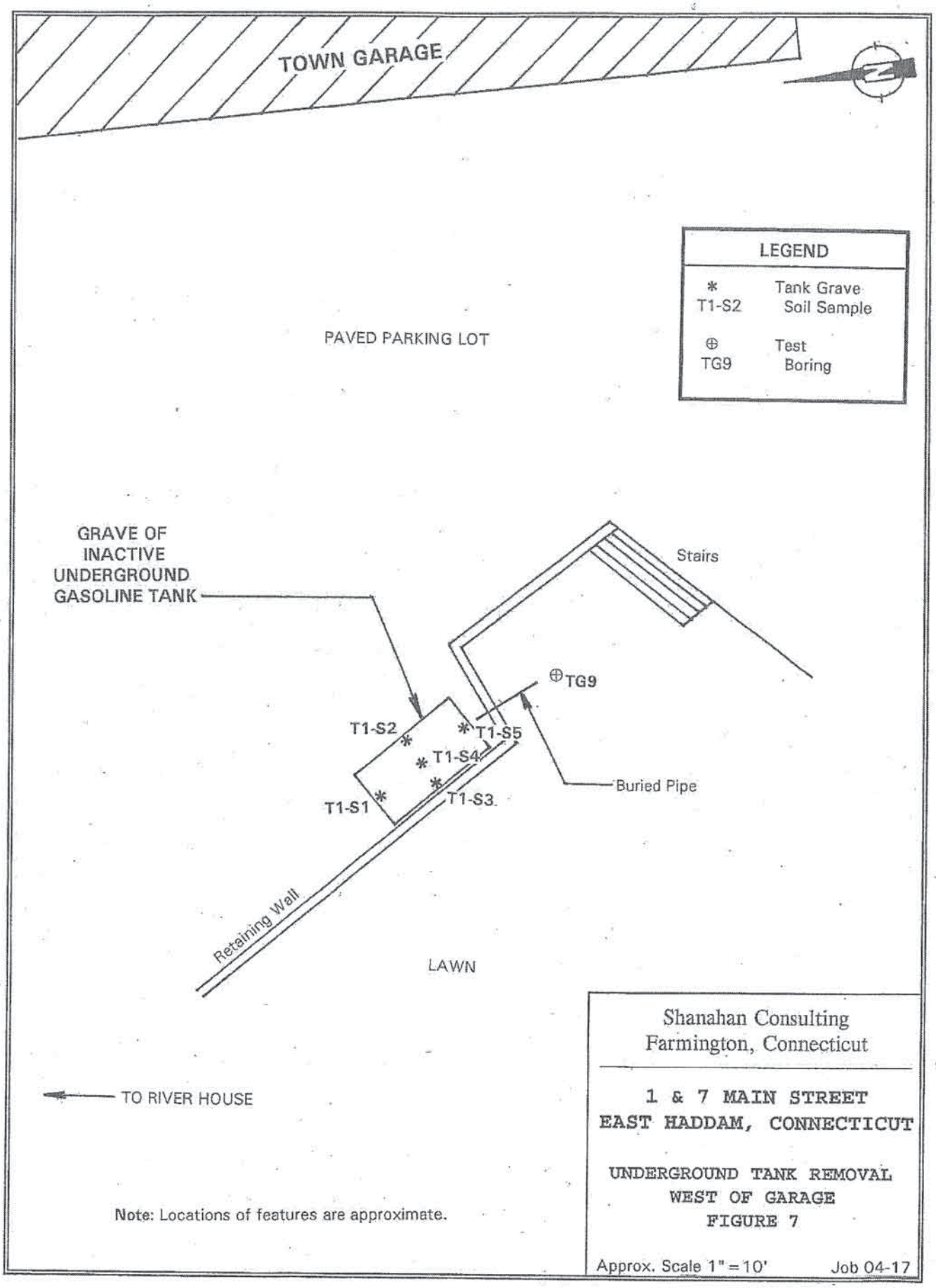
1 & 7 MAIN STREET
EAST HADDAM, CONNECTICUT

EASTERN PART OF SITE
FIGURE 4

Approx. Scale 1" = 40' Job 04-17


FORMER SHED
SITE BOUNDARY
SG5
SG4
Inactive
Oil Line
Under Floor
NORTHERN PART OF BUILDING
ERECTED c. 1930
DEMOLISHED in 2002
SG6
Former Aboveground
Heating Oil Tank
(Apparently Empty)
SG7
Former Aboveground
Heating Oil Tank
SG17
Soil Gas
Sample (Typ.)
STORAGE
TG16
SG16
CENTRAL PART OF BUILDING
TG17
SG15
HISTORICAL
STOREHOUSE
TG22
ERECTED
c. 1911
TG15
TG14
SG14
Soil Boring (Typ.)
SG19
ERECTED
c. 1950
TG23
SG13
HISTORICAL
BLACKSMITH
SHOP
SG18
SG12
TG13
SG11
SITE BOUNDARY
Two
55-Gallon
Drums
SOUTHERN PART OF BUILDING
ERECTED c. 1911
Floor
Drain
(Typ.)
SG1
GARAGE
SG8
SG9
SG10
SG2
Floor
Drainage
Dry Well
FORMER MACHINE SHOP
OFFICES
SG3
STORAGE
Shanahan Consulting
Farmington, Connecticut
1 & 7 MAIN STREET
EAST HADDAM, CONNECTICUT
EXPLORATIONS UNDER GARAGE
FIGURE 5
Approx. Scale 1" = 20'
Job 04-17
Note: Locations of features are approximate.


PROPERTY LINE
RIVER HOUSE
1 MAIN STREET
W1
31.00'
TOWN GARAGE
1 MAIN STREET
PROPERTY LINE
PROPERTY LINE
MW3
26.64'
W4
29.26'
30
29
28
27
[MW1]
Bedrock
Well
25.38'
[MW2]
Bedrock
Well
26.80'
W2
27.63'
NO OVERBURDEN
GROUND WATER
ENCOUNTERED
IN THIS AREA
26
W3
25.85'
DOT
BUILDING
TOWN HALL
7 MAIN STREET
PROPERTY LINE
MAIN STREET (ROUTE 82)
LEGEND
W1 31.00' Monitor Well with ground water elevation in feet
Approximate overburden ground water flow direction
Notes:
1. Locations of features are approximate.
2. Ground water elevations measured on 1-2-04. Elevations refer to arbitrary datum
Shanahan Consulting
Farmington, Connecticut
1 & 7 MAIN STREET
EAST HADDAM, CONNECTICUT
OVERBURDEN GROUND WATER FLOW
FIGURE 6
Approx. Scale 1" = 40'
Job 04-17



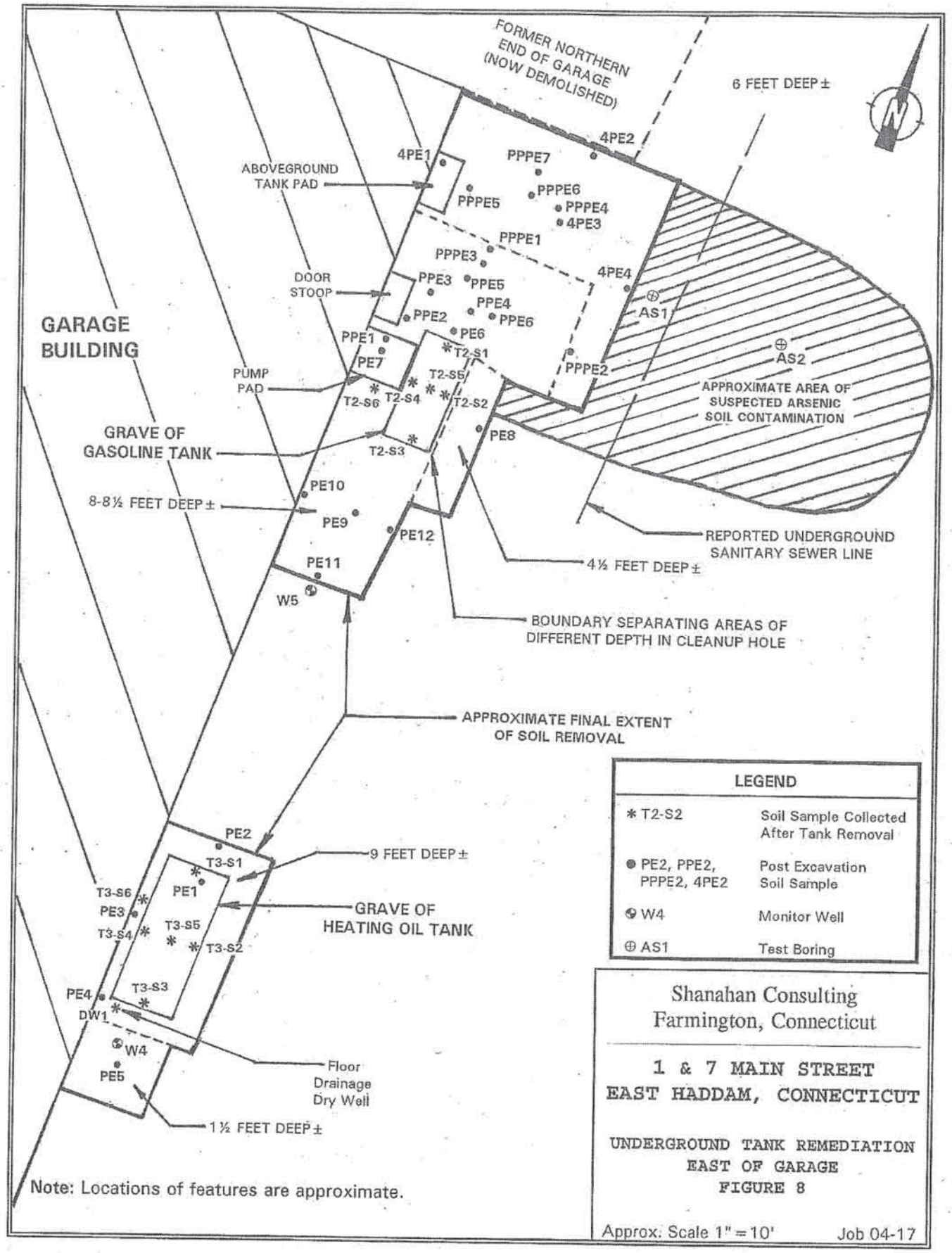
Note: Locations of features are approximate.

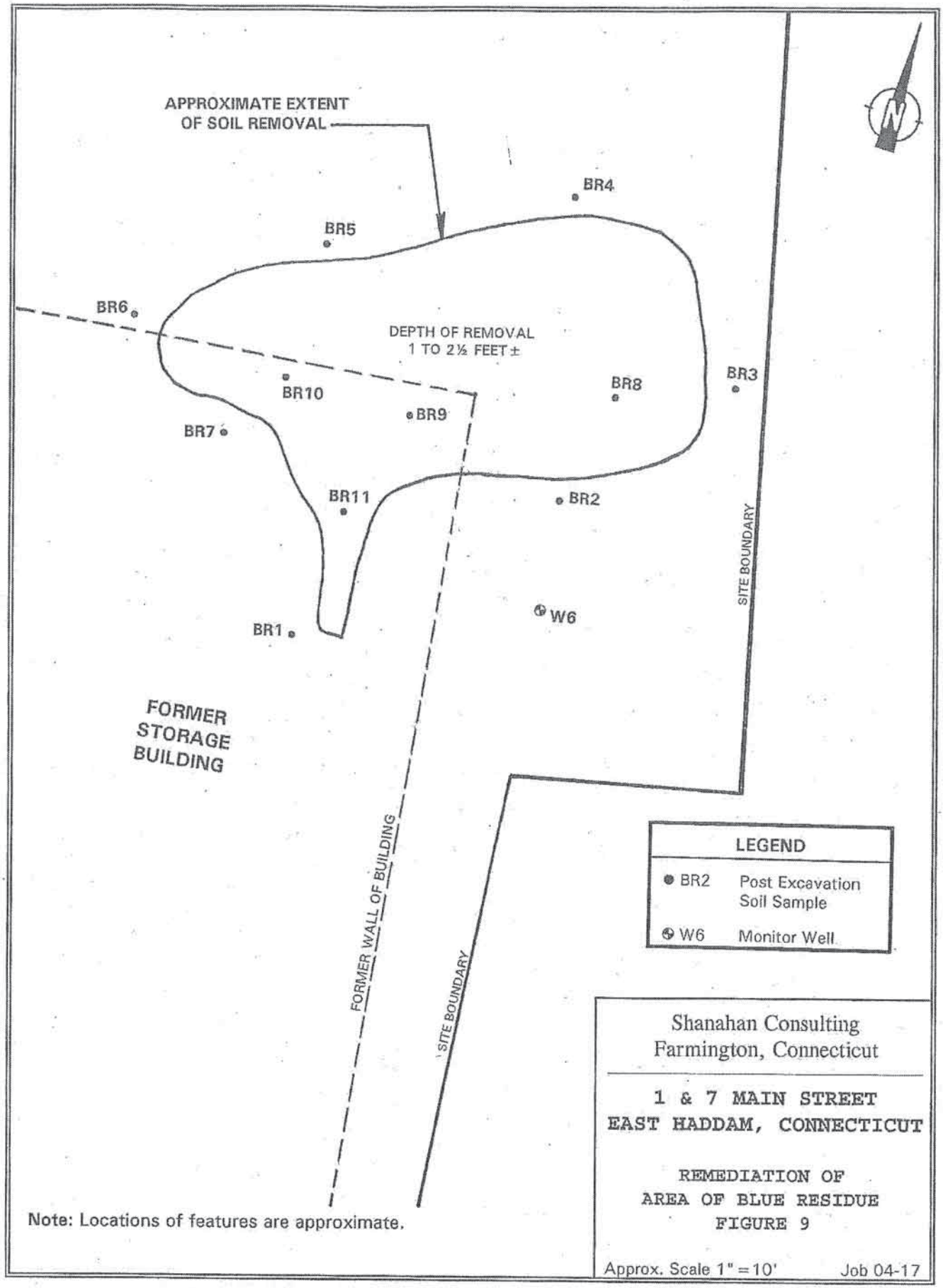
Shanahan Consulting
Farmington, Connecticut

1 & 7 MAIN STREET
EAST HADDAM, CONNECTICUT

UNDERGROUND TANK REMOVAL
WEST OF GARAGE
FIGURE 7

Approx. Scale 1" = 10' Job 04-17


FORMER NORTHERN END OF GARAGE (NOW DEMOLISHED)
6 FEET DEEP ±
4PE2
4PE1
PPPE7
ABOVEGROUND TANK PAD
PPPE6
PPPE5
PPPE4
4PE3
PPPE1
PPPE3
4PE4
DOOR STOOP
PPE3
PPE5
AS1
PPE4
PPE2
PPE6
GARAGE BUILDING
PPE1
PE6
T2-S1
AS2
PE7
PPPE2
PUMP PAD
T2-S5
APPROXIMATE AREA OF SUSPECTED ARSENIC SOIL CONTAMINATION
T2-S6
T2-S4
T2-S2
PE8
GRAVE OF GASOLINE TANK
T2-S3
PE10
8-8½ FEET DEEP ±
PE9
PE12
REPORTED UNDERGROUND SANITARY SEWER LINE
PE11
4½ FEET DEEP ±
W5
BOUNDARY SEPARATING AREAS OF DIFFERENT DEPTH IN CLEANUP HOLE
APPROXIMATE FINAL EXTENT OF SOIL REMOVAL
PE2
9 FEET DEEP ±
T3-S1
T3-S6
PE1
PE3
GRAVE OF HEATING OIL TANK
T3-S5
T3-S4
T3-S2
T3-S3
PE4
DW1
W4
Floor Drainage Dry Well
PE5
1½ FEET DEEP ±
LEGEND
* T2-S2 Soil Sample Collected After Tank Removal
PE2, PPE2, PPPE2, 4PE2 Post Excavation Soil Sample
W4 Monitor Well
AS1 Test Boring
Shanahan Consulting
Farmington, Connecticut
1 & 7 MAIN STREET
EAST HADDAM, CONNECTICUT
UNDERGROUND TANK REMEDIATION
EAST OF GARAGE
FIGURE 8
Approx. Scale 1" = 10'
Job 04-17
Note: Locations of features are approximate.



Note: Locations of features are approximate.

Shanahan Consulting
Farmington, Connecticut

1 & 7 MAIN STREET
EAST HADDAM, CONNECTICUT

REMEDIATION OF
AREA OF BLUE RESIDUE
FIGURE 9

Approx. Scale 1" = 10' Job 04-17

APPENDICES

Appendix A

Logs and Construction Diagrams for Land-Tech Monitor Wells MW1-MW3

Soil Sampling Log

DATE STARTED	7/30/00
DATE FINISHED	8/1/00
WEIGHT OF HAMMER	140 Lbs.
HAMMER FALL	30"
GROUND WATER OBSERVATION	
DATE	7/30/00 -
TIME	0 Hours -
DEPTH	32-3" -
SAMPLER Dia (Type/O.D./I.D.)	SS 2" / 1-3/8"
TYPE OF RIG	CME 75 - Truck

Connecticut Test Borings, LLC
P.O. Box 69 - Seymour, CT 06483
GEOTECHNICAL & ENVIRONMENTAL DRILLING
(203) 888-3857 (203) 888-5777
FAX: (203) 888-0655

ESPECIALLY COMPILED FOR
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

SHEET	1 OF 1
PROJECT No.	C00186
LOCATION	7 Main Street E. Haddam, CT
OFFSET	
GROUND ELEVATION	
HOLE No.	MW-1
CASING	HSA 3-1/4"
SAMPLER	FWC 4"
CORE BARREL	

CASING BLOWS	DEPTH	SAMPLE DEPTH (FEET)	SAMP TYPE	BLOWS PER 6 INCHES ON SAMPLER 0-6	6-12	12-18	18-24	DENSITY OR CONSIST MOISTURE	PROFILE CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOILS / REMARKS	SAMPLE NO.	PEN	REC	BORE / WELL (NOT TO SCALE)
									4"	TOPSOIL				
										BR. SILTY SAND & GRAEVL, OCC. COBBLES				
	-5	5'-47'	C					3.0	4'6"					
								3.0		BEDROCK				
								3.0						
								5.0						
								10.0		HOLLOW STEM AUGER REFUSAL AT '4'-6"				
	-10							6.0		DROVE 4" FWC '4'6"-5'				
								8.0		ROLLER BITTED '3-7/8" 5' TO 0				
								4.0						
								4.0						
								5.0						
	-15							4.0						
								5.0						
								6.0						
								4.0						
								5.0						
	-20							8.0						
								7.0						
								5.0						
								5.0						
								6.0						
	-25							4.0						
								6.0						
								9.0						
								6.0						
								8.0						
	-30							8.0						
								9.0						
								8.0						
								9.0						
								6.0						
	-35							7.0						
								6.0						
								8.0		SET 2" PVC WELL PIPE 47' BELOW GRADE				
								6.0						
								4.0		SCREEN -42' TO -28'				
	-40							5.0		RISER -47' TO -42'				
								4.0		RISER -28' TO - 0'				
								3.0		SAND -47' TO -25'				
								3.0		BENT. -25' TO -22'				
								3.0		BACKFILL -22' TO - 1'				
	-45							2.0		SAND MIX - 1' TO - 0				
								3.0						
								4.0	47'					
	-50													

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: S.B.
HELPER: M.J.
SOILS ENGINEER:
DRILLING INSPECTOR:

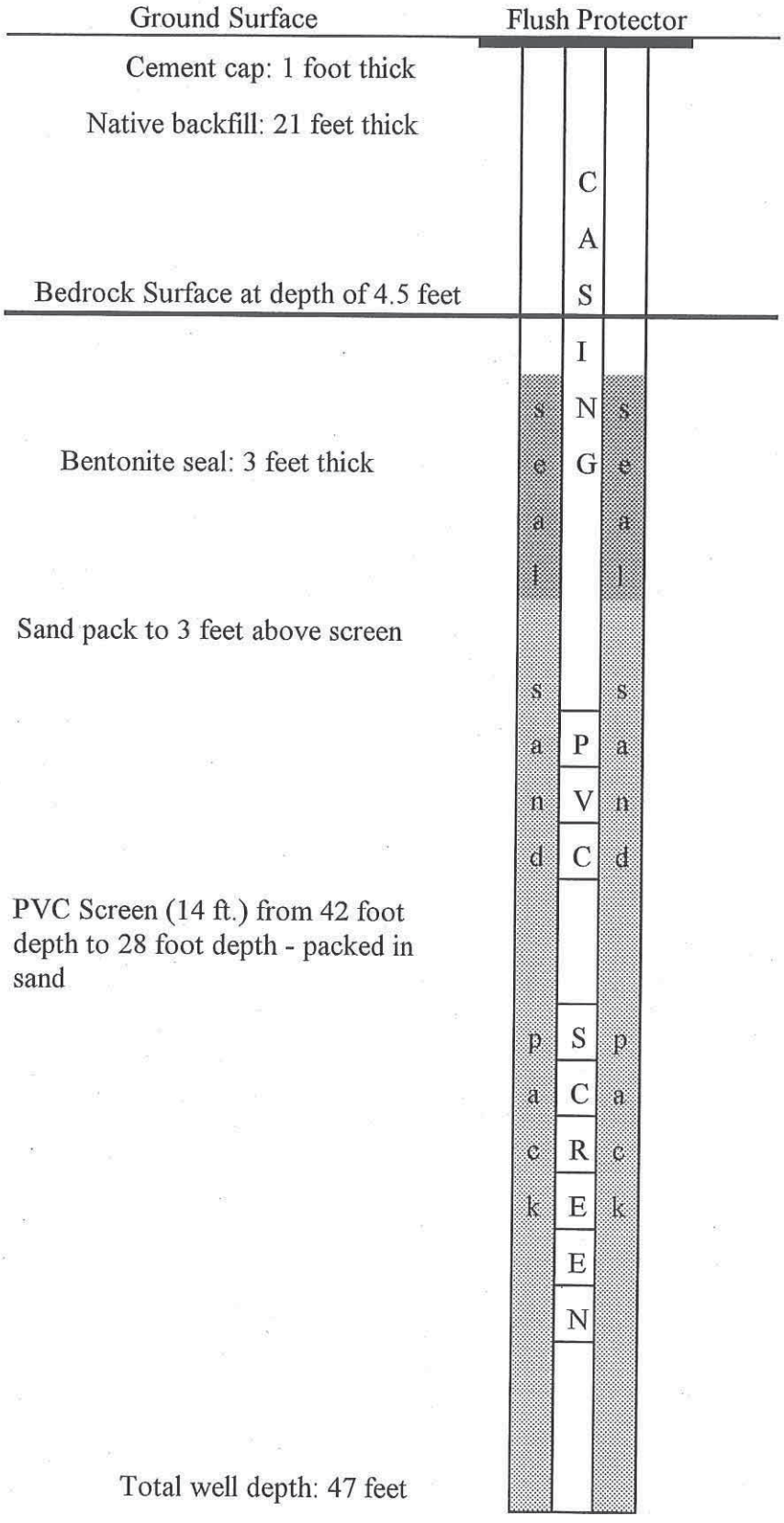
NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

SAMPLE TYPE
C = CORED
W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS SOILS
0 - 4 VERY LOOSE
4 - 10 LOOSE
10-30 MEDIUM
30-50 DENSE
50+ VERY DENSE

COHESIVE SOILS
0 - 2 VERY SOFT
2 - 4 SOFT
4 - 8 MEDIUM
8 15 STIFF
15-30 VERY STIFF
30+ HARD

FILE: C00186



CONSTRUCTION DIAGRAM FOR MONITOR MW1

Soil Sampling Log

DATE STARTED	7/28/00
DATE FINISHED	7/28/00
WEIGHT OF HAMMER	140 Lbs.
HAMMER FALL	30"
GROUND WATER OBSERVATION	
DATE	7/28/00 -
TIME	0 Hours -
DEPTH	20'-6" -
SAMPLER Dia. (Type/O.D./I.D.)	SS 2" / 1-3/8"
TYPE OF RIG	CME 75 - Truck

Connecticut Test Borings, LLC
P.O. Box 69 - Seymour, CT 06483
GEOTECHNICAL & ENVIRONMENTAL DRILLING
(203) 888-3857 (203) 888-5777
FAX: (203) 888-0655

ESPECIALLY COMPILED FOR
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

SHEET	1 OF 1
PROJECT No.	C00186
LOCATION	7 Main Street E. Haddam, CT
OFFSET	
GROUND ELEVATION	
HOLE No.	MW-2
CASING	HSA 3-1/4"
SAMPLER	FWC 4"
CORE BARREL	

CASING BLOWS	DEPTH	SAMPLE DEPTH (FEET)	SAMP TYPE	BLOWS PER 6 INCHES ON SAMPLER 0-6	6-12	12-18	18-24	DENSITY OR CONSIST MOISTURE	PROFILE CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOILS / REMARKS	SAMPLE NO.	PEN	REC	BORE / WELL (NOT TO SCALE)
									2"	ASPHALT				
									6"	F-C GRAVEL				
										BR. VF-F SAND, SOME SILT, TR. F-M GRAVEL				
-5		5'-7'	SS	2	2	1	2	V.LOOSE MOIST			1	24	18	
									8'					
		9'-29'	C					6.0		BEDROCK				
-10								5.0		HOLLOW STEM AUGER REFUSAL AT '9'				
								14.0		ROLLER BITTED 3-7/8" 9' TO 29'				
								5.0						
								6.0						
-15								12.0						
								9.0						
								11.0						
								5.0						
								6.0						
-20								5.0						
								7.0						
								6.0						
								10.0						
								8.0						
								5.0						
-25								6.0						
								4.0						
								7.0						
									29'					
-30										BOTTOM OF BORING				
-35														
										SET 2" PVC WELL PIPE 29' BELOW GRADE				
										SCREEN -29' TO -14'				
-40										RISER -14' TO - 0'				
										SAND -29' TO -13'				
										BENTONITE -13' TO - 8'				
										BACKFILL - 8' TO - 1'				
										SAND MIX - 1' TO - 0				
-45														
-50														

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: S.B.
HELPER: M.J.
SOILS ENGINEER:
DRILLING INSPECTOR:

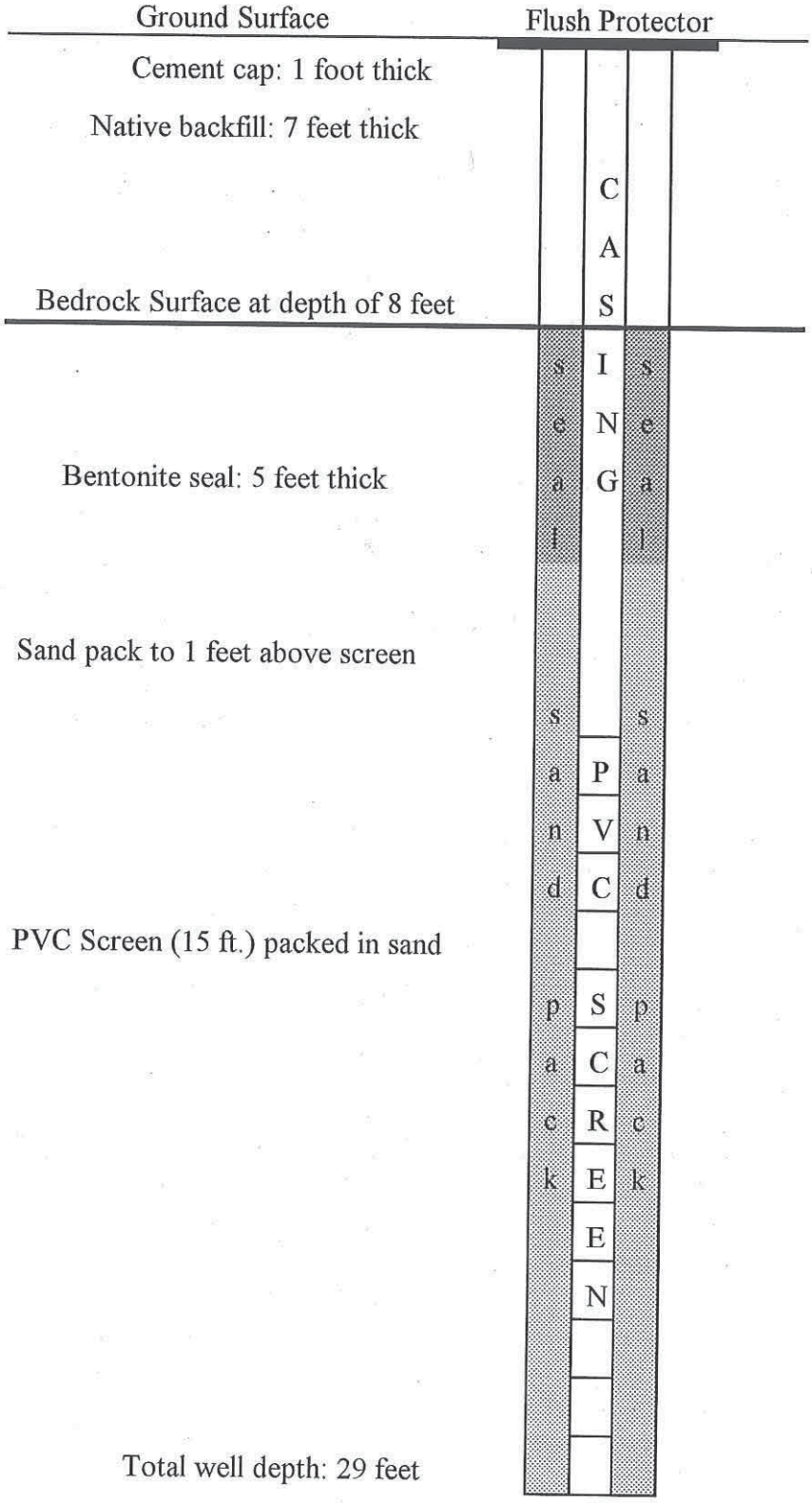
NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

SAMPLE TYPE
C = CORED
W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS SOILS
0 - 4 VERY LOOSE
4 - 10 LOOSE
10-30 MEDIUM
30-50 DENSE
50+ VERY DENSE

COHESIVE SOILS
0 - 2 VERY SOFT
2 - 4 SOFT
4 - 8 MEDIUM
8 15 STIFF
15-30 VERY STIFF
30+ HARD

FILE: C00186



CONSTRUCTION DIAGRAM FOR MONITOR MW2

Soil Sampling Log

DATE STARTED	8/1/00
DATE FINISHED	8/1/00
WEIGHT OF HAMMER	140 Lbs.
HAMMER FALL	30"
GROUND WATER OBSERVATION	
DATE	8/1/00 -
TIME	0 Hours -
DEPTH	8'-0" -
SAMPLER Dia. (Type/O.D./I.D.)	SS 2" / 1-3/8"
TYPE OF RIG	CME 75 - Truck

Connecticut Test Borings, LLC
P.O. Box 69 - Seymour, CT 06483
GEOTECHNICAL & ENVIRONMENTAL DRILLING
(203) 888-3857 (203) 888-5777
FAX: (203) 888-0655

ESPECIALLY COMPILED FOR
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

SHEET	1 OF 1
PROJECT No.	C00186
LOCATION	7 Main Street E. Haddam, CT
OFFSET	
GROUND ELEVATION	
HOLE No.	MW-3
CASING	HSA 3-1/4"
SAMPLER	FWC 4"
CORE BARREL	

CASING BLOWS	DEPTH	SAMPLE DEPTH (FEET)	SAMP TYPE	BLOWS PER 6 INCHES ON SAMPLER 0-6	6-12	12-18	18-24	DENSITY OR CONSIST MOISTURE	PROFILE CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOILS / REMARKS	SAMPLE NO.	PEN	REC	BORE / WELL (NOT TO SCALE)
									2'	BROWN SILTY SAND & GRAEVL (FILL)				
										TAN VF-F SAND, L. SILT				
	-5	5'-7'	SS	4	3	5	5	LOOSE DAMP			1	24	17	
	-10	10'-12'	SS	3	6	8	7	MEDIUM WET			2	24	20	
										SAME W/ SOME SILT				
	-15													
	-20								20'					
										BOTTOM OF BORING				
	-25													
	-30													
	-35													
										SET 2" PVC WELL PIPE 20' BELOW GRADE				
	-40									SCREEN -20' TO - 5' RISER - 5' TO - 1' SAND -20' TO - 4' BENTONITE - 4' TO - 3' BACKFILL - 3' TO - 1' SAND MIX - 1' TO - 0				
	-45													
	-50													

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

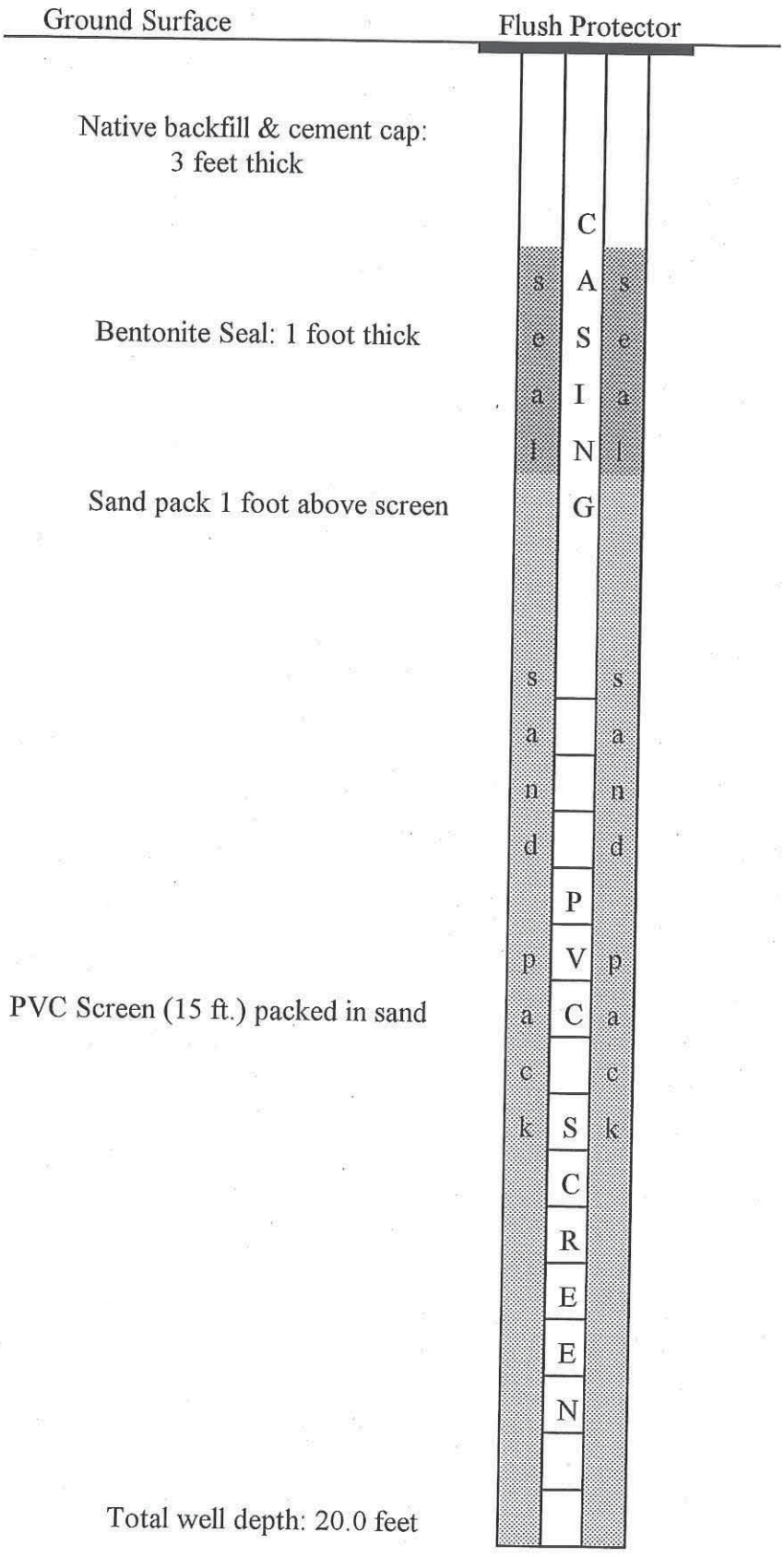
DRILLER: S.B.
HELPER: M.J.
SOILS ENGINEER:
DRILLING INSPECTOR:

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

SAMPLE TYPE
C = CORED
W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS SOILS	COHESIVE SOILS
0 - 4 VERY LOOSE	0 - 2 VERY SOFT
4 - 10 LOOSE	2 - 4 SOFT
10-30 MEDIUM	4 - 8 MEDIUM
30-50 DENSE	8 15 STIFF
50+ VERY DENSE	15-30 VERY STIFF
	30+ HARD

FILE: C00186



CONSTRUCTION DIAGRAM FOR MONITOR WELL MW3

Appendix B

Land-Tech Soil and Ground Water Test Data

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client:	Land-Tech Consultants	**Laboratory Job Number:**	L0006331
Address:	205 Playhouse Corner	**Invoice Number:**	39781
	Southbury, CT 06488	**Date Received:**	02-AUG-00
Attn:	M. Bartos	**Date Reported:**	15-AUG-00
Project Number:	E00199-04	**Delivery Method:**	Alpha
Site:	7 MAIN ST.		

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0006331-01	MW-2-6	E. HADDAM, CT
L0006331-02	MW-3-6	E. HADDAM, CT

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: _____

Scott McLean - Laboratory Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0006331

Alpha Job L0006331:

Metals

It should be noted that the matrix spike percent recoveries for the analysis of Arsenic and Selenium associated with Alpha Sample L0006331-01 are outside the in-house acceptance criteria for the method. Post analytical spikes were performed with acceptable recoveries of 98% and 102%.

It should also be noted that the matrix spike percent recoveries for the analysis of Arsenic and Selenium associated with Alpha Sample L0006331-02 are outside the in-house acceptance criteria for the method. Post analytical spikes were performed with acceptable recoveries of 102% and 108%.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0006331-01
MW-2-6
Sample Matrix: SOIL

Date Collected: 28-JUL-2000
Date Received : 02-AUG-2000
Date Reported : 15-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	81.	%	0.10	30	2540G		05-Aug	LC
Hydrocarbons, Total(IR)	200	mg/kg	49.	4	418.1	14-Aug	14-Aug	TH
Total Metals				1	3051			
Arsenic, Total	3.5	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
Barium, Total	28.	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
Cadmium, Total	ND	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
Chromium, Total	18.	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
Lead, Total	31.	mg/kg	2.4	1	6010B	11-Aug	13-Aug	MG
Mercury, Total	ND	mg/kg	0.31	1	7471A	11-Aug	12-Aug	DM
Selenium, Total	ND	mg/kg	0.98	1	6010B	11-Aug	13-Aug	MG
Silver, Total	ND	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
TCLP Metals								
TCLP Extraction				1	1311	10-Aug		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	11-Aug	14-Aug	MM
Barium, TCLP	ND	mg/l	0.50	1	6010B	11-Aug	14-Aug	MM
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	11-Aug	14-Aug	MM
Chromium, TCLP	ND	mg/l	0.20	1	6010B	11-Aug	14-Aug	MM
Lead, TCLP	ND	mg/l	0.50	1	6010B	11-Aug	14-Aug	MM
Mercury, TCLP	ND	mg/l	0.005	1	7470A	13-Aug	14-Aug	DM
Selenium, TCLP	ND	mg/l	1.0	1	6010B	11-Aug	14-Aug	MM
Silver, TCLP	ND	mg/l	0.10	1	6010B	11-Aug	14-Aug	MM
Volatile Organics by GC/MS 8260				1	8260B		09-Aug	MD
Methylene chloride	ND	ug/kg	31.					
1,1-Dichloroethane	ND	ug/kg	9.2					
Chloroform	ND	ug/kg	9.2					
Carbon tetrachloride	ND	ug/kg	6.2					
1,2-Dichloropropane	ND	ug/kg	22.					
Dibromochloromethane	ND	ug/kg	6.2					
1,1,2-Trichloroethane	ND	ug/kg	9.2					
Tetrachloroethene	ND	ug/kg	6.2					
Chlorobenzene	ND	ug/kg	22.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006331-01
MW-2-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		09-Aug	MD
Trichlorofluoromethane	ND	ug/kg	31.					
1,2-Dichloroethane	ND	ug/kg	6.2					
1,1,1-Trichloroethane	ND	ug/kg	6.2					
Bromodichloromethane	ND	ug/kg	6.2					
trans-1,3-Dichloropropene	ND	ug/kg	6.2					
cis-1,3-Dichloropropene	ND	ug/kg	6.2					
1,1-Dichloropropene	ND	ug/kg	150					
Bromoform	ND	ug/kg	6.2					
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2					
Benzene	ND	ug/kg	6.2					
Toluene	ND	ug/kg	9.2					
Ethylbenzene	ND	ug/kg	6.2					
Chloromethane	ND	ug/kg	62.					
Bromomethane	ND	ug/kg	12.					
Vinyl chloride	ND	ug/kg	12.					
Chloroethane	ND	ug/kg	12.					
1,1-Dichloroethene	ND	ug/kg	9.2					
trans-1,2-Dichloroethene	ND	ug/kg	9.2					
Trichloroethene	ND	ug/kg	6.2					
1,2-Dichlorobenzene	ND	ug/kg	31.					
1,3-Dichlorobenzene	ND	ug/kg	31.					
.,4-Dichlorobenzene	ND	ug/kg	31.					
Methyl tert butyl ether	ND	ug/kg	62.					
p/m-Xylene	ND	ug/kg	6.2					
o-Xylene	ND	ug/kg	6.2					
cis-1,2-Dichloroethene	ND	ug/kg	6.2					
Dibromomethane	ND	ug/kg	62.					
1,4-Dichlorobutane	ND	ug/kg	62.					
Iodomethane	ND	ug/kg	62.					
1,2,3-Trichloropropane	ND	ug/kg	62.					
Styrene	ND	ug/kg	6.2					
Dichlorodifluoromethane	ND	ug/kg	62.					
Acetone	ND	ug/kg	62.					
Carbon disulfide	ND	ug/kg	62.					
2-Butanone	ND	ug/kg	62.					
Vinyl acetate	ND	ug/kg	62.					
4-Methyl-2-pentanone	ND	ug/kg	62.					
2-Hexanone	ND	ug/kg	62.					
Ethyl methacrylate	ND	ug/kg	62.					
Acrolein	ND	ug/kg	150					
Acrylonitrile	ND	ug/kg	62.					
Bromochloromethane	ND	ug/kg	31.					
Tetrahydrofuran	ND	ug/kg	120					
2,2-Dichloropropane	ND	ug/kg	31.					
1,2-Dibromoethane	ND	ug/kg	31.					
1,3-Dichloropropane	ND	ug/kg	31.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	31.					
Bromobenzene	ND	ug/kg	31.					
n-Butylbenzene	ND	ug/kg	31.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006331-01
MW-2-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		09-Aug	MD
sec-Butylbenzene	ND	ug/kg	31.					
tert-Butylbenzene	ND	ug/kg	31.					
o-Chlorotoluene	ND	ug/kg	31.					
p-Chlorotoluene	ND	ug/kg	31.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	31.					
Hexachlorobutadiene	ND	ug/kg	31.					
Isopropylbenzene	ND	ug/kg	31.					
p-Isopropyltoluene	ND	ug/kg	31.					
Naphthalene	ND	ug/kg	31.					
n-Propylbenzene	ND	ug/kg	31.					
1,2,3-Trichlorobenzene	ND	ug/kg	31.					
1,2,4-Trichlorobenzene	ND	ug/kg	31.					
1,3,5-Trimethylbenzene	ND	ug/kg	31.					
1,2,4-Trimethylbenzene	ND	ug/kg	31.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	31.					
Ethyl ether	ND	ug/kg	150					
Surrogate Recovery								
1,2-Dichloroethane-d4	92.0	%						
Toluene-d8	101.	%						
4-Bromofluorobenzene	94.0	%						
Dibromofluoromethane	93.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0006331-02
MW-3-6
Sample Matrix: SOIL

Date Collected: 01-AUG-2000
Date Received : 02-AUG-2000
Date Reported : 15-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Amber,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	85.	%	0.10	30	2540G		14-Aug	EO
Hydrocarbons, Total(IR)	54.	mg/kg	47.	4	418.1	14-Aug	14-Aug	TH
Total Metals				1	3051			
Arsenic, Total	5.6	mg/kg	0.47	1	6010B	11-Aug	13-Aug	MG
Barium, Total	33.	mg/kg	0.47	1	6010B	11-Aug	13-Aug	MG
Cadmium, Total	ND	mg/kg	0.47	1	6010B	11-Aug	13-Aug	MG
Chromium, Total	28.	mg/kg	0.47	1	6010B	11-Aug	13-Aug	MG
Lead, Total	8.5	mg/kg	2.3	1	6010B	11-Aug	13-Aug	MG
Mercury, Total	ND	mg/kg	0.29	1	7471A	11-Aug	12-Aug	DM
Selenium, Total	ND	mg/kg	0.94	1	6010B	11-Aug	13-Aug	MG
Silver, Total	ND	mg/kg	0.47	1	6010B	11-Aug	13-Aug	MG
TCLP Metals								
TCLP Extraction				1	1311	10-Aug		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	11-Aug	14-Aug	MM
Barium, TCLP	ND	mg/l	0.50	1	6010B	11-Aug	14-Aug	MM
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	11-Aug	14-Aug	MM
Chromium, TCLP	ND	mg/l	0.20	1	6010B	11-Aug	14-Aug	MM
Lead, TCLP	ND	mg/l	0.50	1	6010B	11-Aug	14-Aug	MM
Mercury, TCLP	ND	mg/l	0.005	1	7470A	13-Aug	14-Aug	DM
Selenium, TCLP	ND	mg/l	1.0	1	6010B	11-Aug	14-Aug	MM
Silver, TCLP	ND	mg/l	0.10	1	6010B	11-Aug	14-Aug	MM
Volatile Organics by GC/MS 8260				1	8260B		13-Aug	BT
Methylene chloride	ND	ug/kg	31.					
1,1-Dichloroethane	ND	ug/kg	9.2					
Chloroform	ND	ug/kg	9.2					
Carbon tetrachloride	ND	ug/kg	6.1					
1,2-Dichloropropane	ND	ug/kg	21.					
Dibromochloromethane	ND	ug/kg	6.1					
1,1,2-Trichloroethane	ND	ug/kg	9.2					
Tetrachloroethene	ND	ug/kg	6.1					
Chlorobenzene	ND	ug/kg	21.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006331-02
MW-3-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		13-Aug	BT
Trichlorofluoromethane	ND	ug/kg	31.					
1,2-Dichloroethane	ND	ug/kg	6.1					
1,1,1-Trichloroethane	ND	ug/kg	6.1					
Bromodichloromethane	ND	ug/kg	6.1					
trans-1,3-Dichloropropene	ND	ug/kg	6.1					
cis-1,3-Dichloropropene	ND	ug/kg	6.1					
1,1-Dichloropropene	ND	ug/kg	150					
Bromoform	ND	ug/kg	6.1					
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1					
Benzene	ND	ug/kg	6.1					
Toluene	ND	ug/kg	9.2					
Ethylbenzene	ND	ug/kg	6.1					
Chloromethane	ND	ug/kg	61.					
Bromomethane	ND	ug/kg	12.					
Vinyl chloride	ND	ug/kg	12.					
Chloroethane	ND	ug/kg	12.					
1,1-Dichloroethene	ND	ug/kg	9.2					
trans-1,2-Dichloroethene	ND	ug/kg	9.2					
Trichloroethene	ND	ug/kg	6.1					
1,2-Dichlorobenzene	ND	ug/kg	31.					
1,3-Dichlorobenzene	ND	ug/kg	31.					
1,4-Dichlorobenzene	ND	ug/kg	31.					
Methyl tert butyl ether	ND	ug/kg	61.					
p/m-Xylene	ND	ug/kg	6.1					
o-Xylene	ND	ug/kg	6.1					
cis-1,2-Dichloroethene	ND	ug/kg	6.1					
Dibromomethane	ND	ug/kg	61.					
1,4-Dichlorobutane	ND	ug/kg	61.					
Iodomethane	ND	ug/kg	61.					
1,2,3-Trichloropropane	ND	ug/kg	61.					
Styrene	ND	ug/kg	6.1					
Dichlorodifluoromethane	ND	ug/kg	61.					
Acetone	ND	ug/kg	61.					
Carbon disulfide	ND	ug/kg	61.					
2-Butanone	ND	ug/kg	61.					
Vinyl acetate	ND	ug/kg	61.					
4-Methyl-2-pentanone	ND	ug/kg	61.					
2-Hexanone	ND	ug/kg	61.					
Ethyl methacrylate	ND	ug/kg	61.					
Acrolein	ND	ug/kg	150					
Acrylonitrile	ND	ug/kg	61.					
Bromochloromethane	ND	ug/kg	31.					
Tetrahydrofuran	ND	ug/kg	120					
2,2-Dichloropropane	ND	ug/kg	31.					
1,2-Dibromoethane	ND	ug/kg	31.					
1,3-Dichloropropane	ND	ug/kg	31.					
1,1,1,2-Tetrachloroethane	ND	ug/kg	31.					
Bromobenzene	ND	ug/kg	31.					
n-Butylbenzene	ND	ug/kg	31.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006331-02
MW-3-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		13-Aug	BT
sec-Butylbenzene	ND	ug/kg	31.					
tert-Butylbenzene	ND	ug/kg	31.					
o-Chlorotoluene	ND	ug/kg	31.					
p-Chlorotoluene	ND	ug/kg	31.					
1,2-Dibromo-3-chloropropane	ND	ug/kg	31.					
Hexachlorobutadiene	ND	ug/kg	31.					
Isopropylbenzene	ND	ug/kg	31.					
p-Isopropyltoluene	ND	ug/kg	31.					
Naphthalene	ND	ug/kg	31.					
n-Propylbenzene	ND	ug/kg	31.					
1,2,3-Trichlorobenzene	ND	ug/kg	31.					
1,2,4-Trichlorobenzene	ND	ug/kg	31.					
1,3,5-Trimethylbenzene	ND	ug/kg	31.					
1,2,4-Trimethylbenzene	ND	ug/kg	31.					
trans-1,4-Dichloro-2-butene	ND	ug/kg	31.					
Ethyl ether	ND	ug/kg	150					
Surrogate Recovery								
1,2-Dichloroethane-d4	94.0	%						
Toluene-d8	97.0	%						
4-Bromofluorobenzene	103.	%						
Dibromofluoromethane	86.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA Analytical Laboratories, Inc.

Eight Walkup Drive Westborough, MA 01581

PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

CHAIN OF CUSTODY

№ 2203

Sheet 1 of 1

ALPHA Job #: 006631

Date Rec'd in Lab: 8/2

Date Due: 8/16

Client Name: TOWN OF EAST HADDAM

Client Address: 7 MAIN ST. E. HADDAM CT 06423

Phone #: FAX #:

Project Name: 7 MAIN

Project Location: E. HADDAM

Project #: E00199-04

Project Manager: M. BARTOS

Report To: M. BARTOS (SEE COMMENTS)

Bill To: JAMES VENTRES TOWN OF E. HADDAM

PO#:

☒ Standard TAT

☐ RUSH TAT ____ (# DAYS)

☐ FAX Results

☐ State Forms

☐ Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)

CONTACT: M. BARTOS
LAND-TECH CONSULTANTS, INC.
205 PLAYHOUSE CORNER
SOUTHBURY, CT 06488
PH: 203-264-8300

ANALYSIS REQUEST

ALPHA Lab #	Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	8260	TPH-IR	RCRA-8 + TCLP							
6331.1	MW-2-6	S	7/28/08		MJB		X	X	X							
2	MW-3-6	S	8/1/08		MJB		X	X	X							
# of Containers:							2	2	2							
Container Type:							G	A	A							
Preservative: *							A	A	A							

Transfers Accepted By:	Date	Time
	8/2	10:00
	8/4/08	2:30
	8/4/08	17:15

Transfers Relinquished By:

All samples submitted are subject to Alpha's standard Terms and Conditions.

* See Reverse side for Matrix, Container, and Preservative Codes.

Form No.: 01-01

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65 NY:11148

CERTIFICATE OF ANALYSIS

Client: Land-Tech Consultants
Address: 205 Playhouse Corner
Southbury, CT 06488
Attn: M. Bartos
Project Number: E00199-04
Site: 7 MAIN ST.

Laboratory Job Number: L0006658
Invoice Number: 40172
Date Received: 10-AUG-00
Date Reported: 23-AUG-00
Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0006658-01	MW-1	E. HADDAM, CT
L0006658-02	MW-2	E. HADDAM, CT
L0006658-03	MW-3	E. HADDAM, CT
L0006658-04	TRIP BLANK	ALPHA

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: James R. Roth

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0006658-01
MW-1
Sample Matrix: WATER

Date Collected: 09-AUG-2000
Date Received : 10-AUG-2000
Date Reported : 23-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Hydrocarbons, Total(IR)	1.8	mg/l	0.95	4	418.1	22-Aug	23-Aug	TH
Total Metals				1	3015			
Arsenic, Total	0.016	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Barium, Total	0.18	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Chromium, Total	0.20	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Lead, Total	ND	mg/l	0.05	1	6010B	17-Aug	19-Aug	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	15-Aug	16-Aug	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Silver, Total	ND	mg/l	0.010	1	6010B	17-Aug	19-Aug	RW
Volatile Organics by GC/MS 8260				1	8260B		18-Aug	AM
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	2.0	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	25.					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	5.5	ug/l	1.5					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-01
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		18-Aug	AM
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
Methyl tert butyl ether	ND	ug/l	10.					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.					
1,2,3-Trichloropropane	ND	ug/l	10.					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	10.					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	10.					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	10.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Ethyl methacrylate	ND	ug/l	10.					
Acrolein	ND	ug/l	25.					
Acrylonitrile	ND	ug/l	10.					
Bromochloromethane	ND	ug/l	5.0					
Tetrahydrofuran	ND	ug/l	20.					
2,2-Dichloropropane	ND	ug/l	5.0					
1,2-Dibromoethane	ND	ug/l	5.0					
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	ND	ug/l	5.0					
sec-Butylbenzene	ND	ug/l	5.0					
tert-Butylbenzene	ND	ug/l	5.0					
o-Chlorotoluene	ND	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	ND	ug/l	5.0					
p-Isopropyltoluene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
n-Propylbenzene	ND	ug/l	5.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

Laboratory Sample Number: L0006658-01
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		18-Aug	AM
Ethyl ether	ND	ug/l	25.					
Surrogate Recovery								
1,2-Dichloroethane-d4	113.	%						
Toluene-d8	96.0	%						
4-Bromofluorobenzene	98.0	%						
Dibromofluoromethane	111.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0006658-02
MW-2
Sample Matrix: WATER

Date Collected: 09-AUG-2000
Date Received : 10-AUG-2000
Date Reported : 23-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Hydrocarbons, Total(IR)	1.4	mg/l	0.95	4	418.1	22-Aug	23-Aug	TH
Total Metals				1	3015			
Arsenic, Total	0.047	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Barium, Total	0.38	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Chromium, Total	0.25	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Lead, Total	0.57	mg/l	0.05	1	6010B	17-Aug	19-Aug	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	15-Aug	16-Aug	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Silver, Total	ND	mg/l	0.010	1	6010B	17-Aug	19-Aug	RW
Volatile Organics by GC/MS 8260				1	8260B		19-Aug	AM
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	1.9	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	25.					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.5					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-02
MW-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		19-Aug	AM
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
Methyl tert butyl ether	ND	ug/l	10.					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.					
1,2,3-Trichloropropane	ND	ug/l	10.					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	10.					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	10.					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	10.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Ethyl methacrylate	ND	ug/l	10.					
Acrolein	ND	ug/l	25.					
Acrylonitrile	ND	ug/l	10.					
Bromochloromethane	ND	ug/l	5.0					
Tetrahydrofuran	ND	ug/l	20.					
2,2-Dichloropropane	ND	ug/l	5.0					
1,2-Dibromoethane	ND	ug/l	5.0					
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	ND	ug/l	5.0					
sec-Butylbenzene	ND	ug/l	5.0					
tert-Butylbenzene	ND	ug/l	5.0					
o-Chlorotoluene	ND	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	ND	ug/l	5.0					
p-Isopropyltoluene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
n-Propylbenzene	ND	ug/l	5.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

Laboratory Sample Number: L0006658-02
MW-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		19-Aug	AM
Ethyl ether	ND	ug/l	25.					
Surrogate Recovery								
1,2-Dichloroethane-d4	114.	%						
Toluene-d8	94.0	%						
4-Bromofluorobenzene	99.0	%						
Dibromofluoromethane	113.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0006658-03
Sample Matrix: MW-3 WATER

Date Collected: 09-AUG-2000
Date Received : 10-AUG-2000
Date Reported : 23-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Hydrocarbons, Total(IR)	ND	mg/l	0.95	4	418.1	22-Aug	23-Aug	TH
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Barium, Total	0.03	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Lead, Total	ND	mg/l	0.05	1	6010B	17-Aug	19-Aug	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	15-Aug	16-Aug	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Silver, Total	ND	mg/l	0.010	1	6010B	17-Aug	19-Aug	RW
Volatile Organics by GC/MS 8260				1	8260B		19-Aug	AM
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	25.					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.5					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-03
MW-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		19-Aug	AM
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
Methyl tert butyl ether	ND	ug/l	10.					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.					
1,2,3-Trichloropropane	ND	ug/l	10.					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	10.					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	10.					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	10.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Ethyl methacrylate	ND	ug/l	10.					
Acrolein	ND	ug/l	25.					
Acrylonitrile	ND	ug/l	10.					
Bromochloromethane	ND	ug/l	5.0					
Tetrahydrofuran	ND	ug/l	20.					
2,2-Dichloropropane	ND	ug/l	5.0					
1,2-Dibromoethane	ND	ug/l	5.0					
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	ND	ug/l	5.0					
sec-Butylbenzene	ND	ug/l	5.0					
tert-Butylbenzene	ND	ug/l	5.0					
o-Chlorotoluene	ND	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	ND	ug/l	5.0					
p-Isopropyltoluene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
n-Propylbenzene	ND	ug/l	5.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-03
MW-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued								
Ethyl ether	ND	ug/l	25.	1	8260B		19-Aug	AM
Surrogate Recovery								
1,2-Dichloroethane-d4	109.	%						
Toluene-d8	107.	%						
4-Bromofluorobenzene	97.0	%						
Dibromofluoromethane	110.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L0006658-04
TRIP BLANK
Sample Matrix: WATER

Date Collected: 24-JUL-2000
Date Received : 10-AUG-2000
Date Reported : 23-AUG-00

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260				1	8260B		19-Aug	BT
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
cis-1,3-Dichloropropene	ND	ug/l	1.0					
1,1-Dichloropropene	ND	ug/l	25.					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.5					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	2.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.5					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
Methyl tert butyl ether	ND	ug/l	10.					
p/m-Xylene	ND	ug/l	1.0					
o-Xylene	ND	ug/l	1.0					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Dibromomethane	ND	ug/l	10.					
1,4-Dichlorobutane	ND	ug/l	10.					
Iodomethane	ND	ug/l	10.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-04
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B		19-Aug	BT
1,2,3-Trichloropropane	ND	ug/l	10.					
Styrene	ND	ug/l	1.0					
Dichlorodifluoromethane	ND	ug/l	10.					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	10.					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	10.					
4-Methyl-2-pentanone	ND	ug/l	10.					
2-Hexanone	ND	ug/l	10.					
Ethyl methacrylate	ND	ug/l	10.					
Acrolein	ND	ug/l	25.					
Acrylonitrile	ND	ug/l	10.					
Bromochloromethane	ND	ug/l	5.0					
Tetrahydrofuran	ND	ug/l	20.					
2,2-Dichloropropane	ND	ug/l	5.0					
1,2-Dibromoethane	ND	ug/l	5.0					
1,3-Dichloropropane	ND	ug/l	5.0					
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0					
Bromobenzene	ND	ug/l	5.0					
n-Butylbenzene	ND	ug/l	5.0					
sec-Butylbenzene	ND	ug/l	5.0					
tert-Butylbenzene	ND	ug/l	5.0					
o-Chlorotoluene	ND	ug/l	5.0					
p-Chlorotoluene	ND	ug/l	5.0					
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	5.0					
Isopropylbenzene	ND	ug/l	5.0					
p-Isopropyltoluene	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
n-Propylbenzene	ND	ug/l	5.0					
1,2,3-Trichlorobenzene	ND	ug/l	5.0					
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
1,3,5-Trimethylbenzene	ND	ug/l	5.0					
1,2,4-Trimethylbenzene	ND	ug/l	5.0					
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0					
Ethyl ether	ND	ug/l	25.					
Surrogate Recovery								
1,2-Dichloroethane-d4	121.	%						
Toluene-d8	96.0	%						
4-Bromofluorobenzene	101.	%						
Dibromofluoromethane	108.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA Analytical Laboratories, Inc.

Eight Walkup Drive Westborough, MA 01581

PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

CHAIN OF CUSTODY

№ 2204 Sheet 1 of 1

ALPHA Job #: 0006658

Date Rec'd in Lab: 8/10

Date Due: 8/24

Client Name: TOWN OF EAST HADDAM

Client Address: 7 MAIN ST. EAST HADDAM, CT 06423

Phone #: FAX #:

Project Name: 7 MAIN

Project Location: E. HADDAM

Project #: E00199-04

Project Manager: M. BARTOS

Report To: M. BARTOS

Bill To: JAMES VENTRES TOWN OF E. HADDAM

PO#:

☒ Standard TAT

☐ RUSH TAT ____ (# DAYS)

☐ FAX Results

☐ State Forms

☐ Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)

CONTACT: M. BARTOS
LAND-TECH CONSULTANTS INC.
20 PLAYHOUSE CORNER
SOUTHBURY CT 06488
203.264.8300

ANALYSIS REQUEST

ALPHA Lab #	Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	8260	TPH-1R	RCRA-8 (Total)							
6658.1	MW-1	GW	7/29/00		MJB	N	X	X	X							
2	MW-2	GW	"		"	N	X	X	X							
3	MW-3	GW	↓		↓	N	X	X	X							
4	TRIP BLANK		7/29/00	1415			X									

# of Containers:							7	6	3							
Container Type:							V	A	P							
Preservative: *							B	B	C							

Transfers Accepted By:	Date	Time
	8/10	10:30
	8/10/00	4:00
	8/10/00	1845

Transfers Relinquished By:

All samples submitted are subject to Alpha's standard Terms and Conditions.

* See Reverse side for Matrix, Container, and Preservative Codes.

Form No.: 01-01

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 21, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information

Matrix: WATER
Location Code: LANDTECH
Project Code:
P.O.#:

Custody Information

		Date	Time
Collected by:		11/15/00	0:00
Received by:	SW	11/16/00	17:00
Analyzed by:	see below		

Laboratory Data

Client ID: 7 MAIN MW-1 Phoenix I.D. AD00753

Parameter	Result	RL	Units	Date	Time	by	Reference
Pesticide Extraction	Completed			11/16/00	20:58	PL	SW846-3510
Pesticide							
4,4'-DDD	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4'-DDE	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4'-DDT	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
a-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Aldrin	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
b-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Chlordane	ND	0.3	ug/L	11/20/00	9:42	KCA	608/8081
d-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Dieldrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan I	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan II	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan Sulfate	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin Aldehyde	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
g-BHC (Lindane)	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor epoxide	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Methoxychlor	ND	0.2	ug/L	11/20/00	9:42	KCA	608/8081
Toxaphene	ND	1.0	ug/L	11/20/00	9:42	KCA	608/8081

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
November 21, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 21, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		11/15/00	0:00
Location Code:	LANDTECH	Received by:	SW	11/16/00	17:00
Project Code:		Analyzed by:	see below		
P.O.#:					

Laboratory Data

Client ID: 7 MAIN MW-2 Phoenix I.D. AD00754

Parameter	Result	RL	Units	Date	Time	by	Reference
Pesticide Extraction	Completed			11/16/00	20:58	PL	SW846-3510
Pesticide							
4,4' -DDD	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4' -DDE	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4' -DDT	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
a-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Aldrin	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
b-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Chlordane	ND	0.3	ug/L	11/20/00	9:42	KCA	608/8081
d-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Dieldrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan I	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan II	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan Sulfate	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin Aldehyde	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
g-BHC (Lindane)	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor epoxide	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Methoxychlor	ND	0.2	ug/L	11/20/00	9:42	KCA	608/8081
Toxaphene	ND	1.0	ug/L	11/20/00	9:42	KCA	608/8081

Comments: ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
November 21, 2000

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

QC Report

AD00756 November 21, 2000

Sample ID AD00756

Analysis: **Pesticides (GC) Analysis QC** *AD00756*

Analyte	Method Blank (ppb)	Matrix Spike (% Rec)	Matrix Spike Dup. (% Rec.)	RPD
-				
g-BHC	ND	73%	82%	12%
Heptachlor	ND	70%	81%	15%
Aldrin	ND	69%	81%	16%
Dieldrin	ND	80%	90%	12%
Endrin	ND	92%	99%	7%
4,4'-DDT	ND	94%	94%	11%

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller

Phyllis Shiller
Laboratory Director

PHOENIX

Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Client Services (860) 645-8726

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Customer: TOWN OF EAST HADDAM
Address: 7 MAIN ST.
E. HADDAM CT 06423

Project: 7 MAIN
Report To: M. BARTOS - LAND TECH
Invoice To: J. VENTRES E. HADDAM

Project P.O.: _____
Phone #: (203) 264 8300
Fax #: (203) 264 9295

| Client Sample – Information – Identification | | | | | Analysis Requested | | | | |

Appendix C

Laboratory Test Data for Tank Removals and Soil Remediation

July 18, 2002

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
June 27, 2002.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No.	: 0602413
PO/Job No.	: 02-29
Invoice No.	: 119200
Customer No.	: 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received : 6/27/02

Client Name : **Shanahan Consulting**	CTL Lab No. : 0602413
Report Date : 7/16/02	PO/ Job No. : 02-29

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type: S

Lead-mg/L

Field ID	CTL #	MDL				
T1-S1	10267	0.005	BDL			
T1-S2	10268	0.005	0.006			
T1-S3	10269	0.005	BDL			
T1-S4	10270	0.005	0.008			
T1-S5	10271	0.005	0.007			
T2-S1	10272	0.005	BDL			
T2-S2	10273	0.005	BDL			
T2-S3	10274	0.005	0.083			
T2-S4	10275	0.005	BDL			
T2-S5	10276	0.005	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Date Samples Received : 6/27/02

Client Name : **Shanahan Consulting**	CTL Lab No. : 0602413
Report Date : 7/16/02	PO/ Job No. : 02-29

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type: S

Lead-mg/kg

Field ID	CTL #	MDL				
T1-S1	10267	0.5	15.0			
T1-S2	10268	0.5	19.1			
T1-S3	10269	0.5	12.6			
T1-S4	10270	0.5	33.1			
T1-S5	10271	0.5	36.8			
T2-S1	10272	0.5	404			
T2-S2	10273	0.5	9.0			
T2-S3	10274	0.5	742			
T2-S4	10275	0.5	25.5			
T2-S5	10276	0.5	8.5			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	
CTL Lab No.: 0602413	Date Analyzed: 7/13/02
Job/PO No. : 02-29	Analyst: SR
Report Date : 7/16/01	

EPA METHOD 5035/8021B

Date Samples Rec'd: 6/27/02

Matrix Type:	**S**	**S**	**S**	**S**
CTL Sample #:	**10267**	**10268**	**10269**	**10270**
Field ID :	**T1-S1**	**T1-S2**	**T1-S3**	**T1-S4**

Results of Analysis

Parameters	**MDL**				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
p/m-Xylene	25	BDL	BDL	BDL	BDL
o-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL
MTBE	50	BDL	BDL	BDL	BDL

*NOTE: These samples were collected in sodium bisulfate and analyzed in accordance with EPA 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	
CTL Lab No.: 0602413	Date Analyzed: 7/13/02
Job/PO No. : 02-29	Analyst: SR
Report Date : 7/16/01	

EPA METHOD 5035/8021B

Date Samples Rec'd: 6/27/02

Matrix Type:	**S**	**S**	**S**	**S**
CTL Sample #:	**10271**	**10272**	**10273**	**10275**
Field ID :	**T1-S5**	**T2-S1**	**T2-S2**	**T2-S4**

Results of Analysis

Parameters	**MDL**				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
p/m-Xylene	25	BDL	BDL	BDL	BDL
o-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL
MTBE	50	BDL	BDL	BDL	BDL

*NOTE: These samples were collected in sodium bisulfate and analyzed in accordance with EPA 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W=** Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**
CTL Lab No.: 0602413
Job/PO No. : 02-29
Report Date : 7/16/01

Date Analyzed: 7/13/02
Analyst: SR

EPA METHOD 5035/8021B

Date Samples Rec'd: 6/27/02

Matrix Type: **S**
CTL Sample #: **10276**
Field ID : **T2-S5**

Results of Analysis

Parameters	MDL				
Benzene	20	BDL			
Toluene	25	BDL			
Chlorobenzene	25	BDL			
Ethyl Benzene	25	BDL			
p/m-Xylene	25	BDL			
o-Xylene	25	BDL			
1,4-Dichlorobenzene	25	BDL			
1,3-Dichlorobenzene	25	BDL			
1,2-Dichlorobenzene	25	BDL			
MTBE	50	BDL			

*NOTE: These samples were collected in sodium bisulfate and analyzed in accordance with EPA 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	
CTL Lab No.: 0602413	Date Analyzed: 7/13/02
Job/PO No. : 02-29	Analyst: SR
Report Date : 7/16/01	

EPA METHOD 5035/8021B

Date Samples Rec'd: 6/27/02

Matrix Type: **S**
CTL Sample #: **10274**
Field ID : **T2-S3**

Results of Analysis

Parameters	**MDL**				
Benzene	200	BDL			
Toluene	250	BDL			
Chlorobenzene	250	BDL			
Ethyl Benzene	250	350.0			
p/m-Xylene	250	3,157.0			
o-Xylene	250	1,745.0			
1,4-Dichlorobenzene	250	BDL			
1,3-Dichlorobenzene	250	BDL			
1,2-Dichlorobenzene	250	BDL			
MTBE	500	BDL			

*NOTE: This sample was collected in methanol and analyzed in accordance with EPA 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W=** Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

July 16, 2002

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
June 28, 2002.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No.	:	0602438
PO/Job No.	:	02-29
Invoice No.	:	119188
Customer No.	:	691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 6/28/02

Client Name : **Shanahan Consulting**	CTL Lab No. : 0602438
Report Date : 7/15/02	PO/ Job No. : 02-29

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type :	**S**	**S**	**S**
CTL Sample No.	**10379**	**10385**	**10386**
Field ID :	**T2-S6**	**T3-S6**	**DW1**

Parameters	MDL				
Arsenic-mg/kg	1.0	11.6	7.6	7.7	
Barium-mg/kg	5	68	64	31	
Cadmium-mg/kg	0.5	2.7	1.1	BDL	
Chromium, Total-mg/kg	0.5	39.0	33.8	21.7	
Lead-mg/kg	0.5	1,140	415	24.6	
Mercury-mg/kg	0.02	0.16	0.05	BDL	
Selenium-mg/kg	0.5	BDL	BDL	BDL	
Silver-mg/kg	0.2	BDL	BDL	BDL	

EPA Method 8082

Matrix Type :	**S**	**S**	**S**
CTL Sample No.	**10379**	**10385**	**10386**
Field ID :	**T2-S6**	**T3-S6**	**DW1**

Parameters	MDL				
Total PCBs-ppm	1	BDL	BDL	BDL	

MDL= Minimum Detectable Level **BDL** = Below Detection Level

Matrix Types: **W** = Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Date Samples Received: 6/28/02

Client Name : **Shanahan Consulting**	CTL Lab No. : 0602438
Report Date : 7/15/02	PO/ Job No. : 02-29

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type :		**S**	**S**	**S**
CTL Sample No.		**10379**	**10385**	**10386**
Field ID :		**T2-S6**	**T3-S6**	**DW1**
Parameters	**MDL**			
Arsenic-mg/L	0.05	BDL	BDL	BDL
Barium-mg/L	0.5	BDL	BDL	BDL
Cadmium-mg/L	0.005	BDL	BDL	BDL
Chromium, Total-mg/L	0.05	BDL	BDL	BDL
Lead-mg/L	0.005	0.150	0.070	BDL
Mercury-mg/L	0.002	BDL	BDL	BDL
Selenium-mg/L	0.01	BDL	BDL	BDL
Silver-mg/L	0.01	BDL	BDL	BDL

MDL= Minimum Detectable Level **BDL**= Below Detection Level

Matrix Types: W = Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Date Samples Received : 6/28/02

Client Name : **Shanahan Consulting**	Date Extracted: 7/08/02
CTL Lab No.: 0602438	Date Analyzed: 7/08/02
Job/PO No. : 02-29	Analyst: LP
Report. Date: 7/15/02	

RESULTS OF ANALYSIS

Matrix Type: S

Field ID	CTL #	MDL	CT ETPH - mg/kg			
T2-S6	10379	25	12,343			
T3-S1	10380	25	6,105			
T3-S2	10381	25	BDL			
T3-S3	10382	25	BDL			
T3-S4	10383	25	BDL			
T3-S5	10384	25	BDL			
T3-S6	10385	25	4,383			
DW1	10386	25	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 7/08/02
CTL Lab No.: 0602438	Date Analyzed: 7/10/02
Job/PO No. : 02-29	Analyst: SR
Report Date : 7/15/02	

EPA METHOD 5035/8021B

Date Samples Rec'd: 6/28/02

Matrix Type **S**
CTL Sample #: **10380**
Field ID : **T3-S1**

Results of Analysis

Parameters	MDL				
Benzene	200	BDL			
Toluene	250	2,389.0			
Chlorobenzene	250	BDL			
Ethyl Benzene	250	3,252.0			
p/m-Xylene	250	15,589.0			
o-Xylene	250	7,602.0			
1,4-Dichlorobenzene	250	BDL			
1,3-Dichlorobenzene	250	BDL			
1,2-Dichlorobenzene	250	BDL			
MTBE	500	BDL			

***NOTE:** This sample was collected in methanol in the field and analyzed in accordance with EPA 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**
CTL Lab No.: 0602438
Job/PO No. : 02-29
Report Date : 7/15/02

Date Analyzed: 7/11-7/12/02
Analyst: SR

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 6/28/02

Matrix Type	**S**	**S**	**S**
CTL Sample #:	**10379**	**10385**	**10386**
Field ID :	**T2-S6**	**T3-S6**	**DW1**

Results of Analysis

Parameters	**MDL**				
Dichlorodifluoromethane	10	BDL	BDL	BDL	
Chloromethane	10	BDL	BDL	BDL	
Vinyl chloride	10	BDL	BDL	BDL	
Chloroethane	10	BDL	BDL	BDL	
Bromomethane	10	BDL	BDL	BDL	
Trichlorofluoromethane	10	BDL	BDL	BDL	
1,1-Dichloroethylene	10	BDL	BDL	BDL	
Methylene chloride	10	BDL	BDL	BDL	
t-1,2-Dichloroethylene	10	BDL	BDL	BDL	
1,1-Dichloroethane	10	BDL	BDL	BDL	
2,2-Dichloropropane	10	BDL	BDL	BDL	
cis-1,2-Dichloroethylene	10	BDL	BDL	BDL	
Chloroform	10	BDL	BDL	BDL	
Bromochloromethane	10	BDL	BDL	BDL	
1,1,1-Trichloroethane	10	BDL	BDL	BDL	
1,1-Dichloropropylene	10	BDL	BDL	BDL	
Carbon tetrachloride	10	BDL	BDL	BDL	
Benzene	10	BDL	BDL	BDL	
1,2-Dichloroethane	10	BDL	BDL	BDL	
Trichloroethylene	10	BDL	BDL	BDL	
1,2-Dichloropropane	10	BDL	BDL	BDL	
Bromodichloromethane	10	BDL	BDL	BDL	
Dibromomethane	10	BDL	BDL	BDL	
cis-1,3-Dichloropropylene	10	BDL	BDL	BDL	
Toluene	10	BDL	BDL	BDL	
t-1,3-Dichloropropylene	10	BDL	BDL	BDL	
1,1,2-Trichloroethane	10	BDL	BDL	BDL	
Tetrachloroethylene	10	BDL	BDL	BDL	
1,3-Dichloropropane	10	BDL	BDL	BDL	
Dibromochloromethane	10	BDL	BDL	BDL	
1,2-Dibromoethane (EDB)	10	BDL	BDL	BDL	
Chlorobenzene	10	BDL	BDL	BDL	
Ethylbenzene	10	BDL	BDL	BDL	
1,1,1,2-Tetrachloroethane	10	BDL	BDL	BDL	
p/m-Xylene	10	BDL	BDL	BDL	
o-Xylene	10	BDL	BDL	BDL	

NOTE: These samples were collected in sodium bisulfate and analyzed in accordance with EPA 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**
CTL Lab No.: 0602438
Job/PO No. : 02-29
Report Date : 7/15/02

Date Analyzed: 7/11-7/12/02
Analyst: SR

EPA METHOD 8260B GC/MS

Date Samples Rec'd: 6/28/02

Matrix Type	**S**	**S**	**S**
CTL Sample #:	**10379**	**10385**	**10386**
Field ID :	**T2-S6**	**T3-S6**	**DW1**

Results of Analysis

Parameters	**MDL**				
Styrene	10	BDL	BDL	BDL	
Bromoform	10	BDL	BDL	BDL	
Isopropylbenzene	10	BDL	BDL	BDL	
1,1,2,2-Tetrachloroethane	10	BDL	BDL	BDL	
Bromobenzene	10	BDL	BDL	BDL	
1,2,3-Trichloropropane	10	BDL	BDL	BDL	
n-Propylbenzene	10	BDL	BDL	BDL	
2-Chlorotoluene	10	BDL	BDL	BDL	
1,3,5-Trimethylbenzene	10	BDL	BDL	BDL	
4-Chlorotoluene	10	BDL	BDL	BDL	
tert-Butylbenzene	10	BDL	BDL	BDL	
1,2,4-Trimethylbenzene	10	BDL	BDL	BDL	
sec-Butylbenzene	10	BDL	BDL	BDL	
p-Isopropyltoluene	10	BDL	BDL	BDL	
1,3-Dichlorobenzene	10	BDL	BDL	BDL	
1,4-Dichlorobenzene	10	BDL	BDL	BDL	
n-Butylbenzene	10	BDL	BDL	BDL	
1,2-Dichlorobenzene	10	BDL	BDL	BDL	
1,2-Dibromo-3-chloropropane	10	BDL	BDL	BDL	
1,2,4-Trichlorobenzene	10	BDL	BDL	BDL	
Hexachlorobutadiene	50	BDL	BDL	BDL	
Naphthalene	50	BDL	BDL	BDL	
1,2,3-Trichlorobenzene	10	BDL	BDL	BDL	
Methyl ethyl ketone	50	BDL	BDL	BDL	
Methyl butyl ketone	50	BDL	BDL	BDL	
Methyl isobutyl ketone	50	BDL	BDL	BDL	
MTBE	10	BDL	BDL	BDL	

NOTE: These samples were collected in sodium bisulfate and analyzed in accordance with EPA 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 7/02/02
CTL Lab No.: 0602438	Date Analyzed: 7/12/02
Job/PO No. : 02-29	Analyst: YK
Report Date : 7/15/02	

PAHs by EPA METHOD 8270C (GC/MS) Date Samples Rec'd: 6/28/02

	**	*	**	
Matrix Type	**S**	**S**	**S**	**S**
CTL Sample #:	**10379**	**10380**	**10385**	**10386**
Field ID :	**T2-S6**	**T3-S1**	**T3-S6**	**DW1**

Results of Analysis

Parameters	**MDL**				
Naphthalene	10	BDL	23,121.0	BDL	BDL
Acenaphthylene	10	BDL	895.0	BDL	BDL
Acenaphthene	10	BDL	3,992.0	BDL	BDL
Fluorene	10	BDL	8,792.0	BDL	BDL
Phenanthrene	10	BDL	28,003.0	BDL	BDL
Anthracene	10	BDL	5,093.0	BDL	BDL
Fluoranthene	10	BDL	1,450.0	BDL	BDL
Pyrene	10	BDL	4,064.0	BDL	BDL
Benzo(a)anthracene	10	BDL	131.0	BDL	BDL
Chrysene	10	BDL	360.0	BDL	BDL
Benzo(b)fluoranthene	10	BDL	BDL	BDL	BDL
Benzo(k)fluoranthene	10	BDL	BDL	BDL	BDL
Benzo(a)pyrene	10	BDL	BDL	BDL	BDL
Indeno (1,2,3-cd)pyrene	50	BDL	BDL	BDL	BDL
Dibenzo(a,h)anthracene	50	BDL	BDL	BDL	BDL
Benzo(ghi)perylene	50	BDL	BDL	BDL	BDL
Benzo(j)fluoranthene	50	BDL	BDL	BDL	BDL
Dibenzo(a.h)acridine	50	BDL	BDL	BDL	BDL
Dibenzo(a.j)acridine	50	BDL	BDL	BDL	BDL
7H-Dibenzo(c,g)carbazole	50	BDL	884.0	BDL	BDL
3-Methylcholanthrene	50	BDL	BDL	BDL	BDL

***MDL=** 10 times the level indicated. ****MDL=** 50 times the level indicated.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ppb

Matrix Type: **W**= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 02-29

PROJECT NAME East Haddam

COLLECTED BY Ned Shanahan

LAB # 0602438

REMARKS:

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	B260+MTBE	ETPH	8 RCRA Metals - mass analysis	8 RCRA Metals - SPLP	PCBs	PAHs	8021 - Aromatics + MTBE		SAMPLE REMARKS
T2-S6	6.28.02		Soil	Jar/Vials	1/2	*	✓	✓	✓	✓	✓	✓			
T3-S1	↓		↓	↓	↓	↓		✓				✓	✓		
T3-S2				Jar	1	Chilled		✓							
T3-S3				↓	↓	↓		✓							
T3-S4								✓							
T3-S5				↓	↓	↓		✓							
T3-S6				Jar/Vials	1/2	*	✓	✓	✓	✓	✓	✓			
DW1	↓		↓	↓	↓	↓	✓	✓	✓	✓	✓	✓			

ANALYSES REQUESTED

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY _____

* Vials preserved via Method 5035. All containers chilled.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	6.28.02	2:13 PM	S. Anderson

September 03, 2002

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
August 12, 2002.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No.	: 0802150
PO/Job No.	: 02-29
Invoice No.	: 119939
Customer No.	: 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received : 8/12/02

Client Name : **Shanahan Consulting**	Date Extracted: 8/26/02
CTL Lab No.: 0802150	Date Analyzed: 8/26/02
Job/PO No. : 02-29	Analyst: MP
Report. Date: 8/27/02	

RESULTS OF ANALYSIS

Matrix Type: S

CT ETPH-mg/kg

Field ID	CTL #	MDL				
PE1	13225	25	BDL			
PE2	13226	25	BDL			
PE3	13227	25	BDL			
PE4	13228	25	BDL			
PE5	13229	25	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 8/12/02
CTL Lab No.: 0802150	Date Analyzed: 8/15/02
Job/PO No. : 02-29	Analyst: SR
Report Date : 8/28/02	

EPA METHOD 5035/8021B

Date Samples Rec'd: 8/12/02

Matrix Type:	**S**	**S**	**S**	**S**
CTL Sample #:	**13225**	**13226**	**13227**	**13228**
Field ID :	**PE1**	**PE2**	**PE3**	**PE4**

Results of Analysis

Parameters	**MDL**				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
p/m-Xylene	25	BDL	BDL	BDL	BDL
o-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL
MTBE	50	BDL	BDL	BDL	BDL

Note: The above samples were collected in sodium bisulfate in the field and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 8/12/02
CTL Lab No.: 0802150	Date Analyzed: 8/15/02
Job/PO No. : 02-29	Analyst: SR
Report Date : 8/28/02	

EPA METHOD 5035/8021B

Date Samples Rec'd: 8/12/02

Matrix Type: **S**
CTL Sample #: **13229**
Field ID : **PE5**

Results of Analysis

Parameters	**MDL**				
Benzene	20	BDL			
Toluene	25	BDL			
Chlorobenzene	25	BDL			
Ethyl Benzene	25	BDL			
p/m-Xylene	25	BDL			
o-Xylene	25	BDL			
1,4-Dichlorobenzene	25	BDL			
1,3-Dichlorobenzene	25	BDL			
1,2-Dichlorobenzene	25	BDL			
MTBE	50	BDL			

Note: The above samples were collected in sodium bisulfate in the field and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 02-29

PROJECT NAME 1 Main Street

COLLECTED BY Ned Shanahan

LAB # 0802150

REMARKS:

* Vials preserved in accordance w/ Method 5035. All containers chilled.

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED: ETPH	ANALYSES REQUESTED: Method 8021 - Aromatics + MTBE	SAMPLE REMARKS
PE 1	8-12-02		Soil	Jar/Vial	1/2	*	✓	✓	
PE 2	↓		↓	↓	↓	↓	✓	✓	
PE 3							✓	✓	
PE 4							✓	✓	
PE 5	↓		↓	↓	↓	↓	✓	✓	

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY _____

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	8/12/02	3:16pm	Helen Sisko

Date Samples Received : 8/13/02

Client Name : **Shanahan Consulting**	CTL Lab No. : 0802159
Report Date : 8/28/02	PO/ Job No. : 02-29

RESULTS OF ANALYSIS

EPA Method 3050B

Matrix Type: S

Field ID	CTL #	Arsenic-mg/kg		Lead-mg/kg	
PE6	13246	14.4		5.0	
PE7	13247	10.7		150	
PE8	13248	6.6		4.0	
PE9	13249	4.8		3.0	
PE10	13250	5.0		BDL	
PE11	13251	6.0		3.0	
PE12	13252	5.7		5.0	

NOTE: Minimum detectable Limits (MDL) are as follows: Arsenic = 1.0-mg/kg and Lead = 0.5-mg/kg.

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Date Samples Received : 8/13/02

Client Name : **Shanahan Consulting**	Date Extracted: 8/27/02
CTL Lab No.: 0802159	Date Analyzed: 8/27/02
Job/PO No. : 02-29	Analyst: MP
Report. Date: 8/28/02	

RESULTS OF ANALYSIS

Matrix Type: S

			CT ETPH-mg/kg			
Field ID	**CTL #**	**MDL**				
PE6	13246	25	BDL			
PE7	13247	25	BDL			
PE8	13248	25	BDL			
PE9	13249	25	BDL			
PE10	13250	25	BDL			
PE11	13251	25	BDL			
PE12	13252	25	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 8/13/02
CTL Lab No.: 0802159	Date Analyzed: 8/15/02
Job/PO No. : 02-29	Analyst: SL
Report Date : 8/28/02	

EPA METHOD 5035/8021B

Date Samples Rec'd: 8/13/02

Matrix Type:	**S**	**S**	**S**	**S**
CTL Sample #:	**13246**	**13247**	**13248**	**13249**
Field ID :	**PE6**	**PE7**	**PE8**	**PE9**

Results of Analysis

Parameters	**MDL**				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
p/m-Xylene	25	BDL	BDL	BDL	BDL
o-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL
MTBE	50	BDL	BDL	BDL	BDL

Note: The above samples were collected in sodium bisulfate in the field and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 8/13/02
CTL Lab No.: 0802159	Date Analyzed: 8/15/02
Job/PO No. : 02-29	Analyst: SL
Report Date : 8/28/02	

EPA METHOD 5035/8021B

Date Samples Rec'd: 8/13/02

Matrix Type:	**S**	**S**	**S**
CTL Sample #:	**13250**	**13251**	**13252**
Field ID :	**PE10**	**PE11**	**PE12**

Results of Analysis

Parameters	MDL				
Benzene	20	BDL	BDL	BDL	
Toluene	25	BDL	BDL	BDL	
Chlorobenzene	25	BDL	BDL	BDL	
Ethyl Benzene	25	BDL	BDL	BDL	
p/m-Xylene	25	BDL	BDL	BDL	
o-Xylene	25	BDL	BDL	BDL	
1,4-Dichlorobenzene	25	BDL	BDL	BDL	
1,3-Dichlorobenzene	25	BDL	BDL	BDL	
1,2-Dichlorobenzene	25	BDL	BDL	BDL	
MTBE	50	BDL	BDL	BDL	

Note: The above samples were collected in sodium bisulfate in the field and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 02.29

PROJECT NAME 1 Main Street

COLLECTED BY Ned Shanahan

LAB # 0802159

REMARKS:

* Vials preserved in accordance with Method 5035. All samples chilled.

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED: ETPH	Method 8021 - Aromatics + MTBE	Arsenic + Lead - mass analysis						SAMPLE REMARKS
PE6	8-13-02		Soil	Jar/Vial	1/2	*	✓	✓	✓						
PE7	↓		↓	↓	↓	↓	✓	✓	✓						
PE8							✓	✓	✓						
PE9							✓	✓	✓						
PE10							✓	✓	✓						
PE11							✓	✓	✓						
PE12	↓		↓	↓	↓	↓	✓	✓	✓						

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY ____

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	8-13-02	1:10	M McMahon

July 19, 2004

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
July 09, 2004.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No.	: 0704130
PO/Job No.	: 04-17
Invoice No.	: 131186
Customer No.	: 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ▪ SOIL ▪ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ▪ 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE ▪ MERIDEN, CT ▪ 06451

Date Samples Received: 7/09/04

Client Name : **Shanahan Consulting**	CTL Lab No. : 0704130
Report Date : 7/19/04	PO/ Job No. : 04-17

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type: S

Field ID	CTL #	MDL	Arsenic -mg/kg			
PPE1	12296	1.0	5.4			
PPE2	12297	1.0	10.7			
PPE3	12298	1.0	4.5			
PPE4	12299	1.0	6.1			
PPE5	12300	1.0	10.1			
PPE6	12301	1.0	11.6			

Matrix Type: S

Field ID	CTL #	MDL	CT ETPH -mg/kg			
PPE1	12296	25	BDL			
PPE2	12297	25	BDL			
PPE3	12298	25	BDL			
PPE4	12299	25	BDL			
PPE5	12300	25	BDL			
PPE6	12301	25	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Date Samples Received: 7/09/04

Client Name : **Shanahan Consulting**	CTL Lab No. : 0704130
Report Date : 7/19/04	PO/ Job No. : 04-17

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type: S

Field ID	CTL #	MDL	Lead -mg/kg			
PPE1	12296	0.5	1.3			
PPE2	12297	0.5	3.1			
PPE3	12298	0.5	1.4			
PPE4	12299	0.5	1.8			
PPE5	12300	0.5	2.8			
PPE6	12301	0.5	2.7			
BR1	12302	0.5	28.6			
BR2	12303	0.5	271			
BR3	12304	0.5	79.3			
BR4	12305	0.5	59.3			
BR5	12306	0.5	75.4			
BR6	12307	0.5	137			
BR7	12308	0.5	79.2			
BR8	12309	0.5	48.5			
BR9	12310	0.5	3.4			
BR10	12311	0.5	5.8			
BR11	12312	0.5	5.5			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Date Samples Received: 7/09/04

Client Name : **Shanahan Consulting**
Report Date : 7/19/04

CTL Lab No. : 0704130
PO/ Job No. : 04-17

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type: S

Field ID	CTL #	MDL	Mercury -mg/kg			
BR1	12302	0.02	0.07			
BR2	12303	0.02	1.77			
BR3	12304	0.02	0.38			
BR4	12305	0.02	0.23			
BR5	12306	0.02	0.25			
BR6	12307	0.02	0.47			
BR7	12308	0.02	0.23			
BR8	12309	0.02	0.13			
BR9	12310	0.02	BDL			
BR10	12311	0.02	0.06			
BR11	12312	0.02	0.09			

SPLP EPA 1312

Matrix Type: S

Field ID	CTL #	Chromium, Total-mg/L	Lead -mg/L	Mercury -mg/L	
BR1	12302	BDL	0.006	BDL	
BR2	12303	BDL	0.013	BDL	
BR3	12304	BDL	0.005	BDL	
BR4	12305	BDL	0.006	BDL	
BR5	12306	BDL	0.013	BDL	
BR6	12307	BDL	0.011	BDL	
BR7	12308	BDL	BDL	BDL	
BR8	12309	BDL	0.006	BDL	
BR9	12310	BDL	BDL	BDL	
BR10	12311	BDL	BDL	BDL	
BR11	12312	BDL	BDL	BDL	

Note: *The following MDLs were used: SPLP Chromium= 0.05 mg/L; SPLP Lead = 0.005 mg/L and SPLP Mercury= 0.002 mg/L.*

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 7/09/04
CTL Lab No.: 0704130	Date Analyzed: 7/17/04
Job/PO No. : 04-17	Analyst: SR
Report Date : 7/19/04	

EPA METHOD 5035 / 8021B

Date Samples Rec'd: 7/09/04

Matrix Type:	**S**	**S**	**S**	**S**
CTL Sample #:	**12296**	**12297**	**12298**	**12299**
Field ID :	**PPE1**	**PPE2**	**PPE3**	**PPE4**

Results of Analysis

Parameters	**MDL**				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
p/m-Xylene	25	BDL	BDL	BDL	BDL
o-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL
MTBE	50	BDL	BDL	BDL	BDL

NOTE: These samples were collected in sodium bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 7/09/04
CTL Lab No.: 0704130	Date Analyzed: 7/17/04
Job/PO No. : 04-17	Analyst: SR
Report Date : 7/19/04	

EPA METHOD 5035 / 8021B

Date Samples Rec'd: 7/09/04

Matrix Type:	**S**	**S**
CTL Sample #:	**12300**	**12301**
Field ID :	**PPE5**	**PPE6**

Results of Analysis

Parameters	MDL				
Benzene	20	BDL	BDL		
Toluene	25	BDL	BDL		
Chlorobenzene	25	BDL	BDL		
Ethyl Benzene	25	BDL	BDL		
p/m-Xylene	25	BDL	BDL		
o-Xylene	25	BDL	BDL		
1,4-Dichlorobenzene	25	BDL	BDL		
1,3-Dichlorobenzene	25	BDL	BDL		
1,2-Dichlorobenzene	25	BDL	BDL		
MTBE	50	BDL	BDL		

NOTE: These samples were collected in sodium bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER ~~0404~~ 04-17

PROJECT NAME EAST HADDAM

COLLECTED BY NED SHANAHAN

LAB# 070430

REMARKS:

See Quotation HGSC101303 for rates.

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	Method 8021B - aromatics + MTBE	ETPH	Arsenic - mass analysis	Lead - mass analysis	Mercury - mass analysis	SPLP Cr, Pb, Hg			SAMPLE REMARKS
PPE1	7-9-04		Soil	Jar/Vial	1/2	see below	✓	✓	✓	✓					
PPE2	↓		↓	↓	↓	↓	✓	✓	✓	✓					
PPE3							✓	✓	✓	✓					
PPE4							✓	✓	✓	✓					
PPE5							✓	✓	✓	✓					
PPE6							✓	✓	✓	✓					
BR1				Jar	1					✓	✓	✓			
BR2										✓	✓	✓			
BR3										✓	✓	✓			
BR4										✓	✓	✓			
BR5										✓	✓	✓			
BR6										✓	✓	✓			
BR7										✓	✓	✓			
BR8	↓		↓	↓	↓	↓				✓	✓	✓			

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY _____

SAMPLE PRESERVATION REMARKS:
All containers chilled. Soil samples collected for VOC analysis preserved via Method 5035.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	7-9-04	4:13pm	Mary Carlson

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER ~~03-42~~ 04-17
PROJECT NAME EAST HADDAM
COLLECTED BY NED SHANAHAN

LAB# 0704130

REMARKS:

See Quotation HGSC101303 for rates.

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED: Lead - mass analysis	Mercury - mass analysis	SPLP Cr, Pb, Hg						SAMPLE REMARKS
BR9	7-9-04		Soil	Jar	1	see below	✓	✓	✓						
BR10	↓		↓	↓	↓	↓	✓	✓	✓						
BR11	↓		↓	↓	↓	↓	✓	✓	✓						

REQUESTED TURNAROUND:
BEST AVAILABLE TIME ✓
PRIORITY

SAMPLE PRESERVATION REMARKS:
All containers chilled. Soil samples collected for VOC analysis preserved via Method 5035.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	7-9-04	4:13 pm	Mary Carlson

August 13, 2004

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
July 29, 2004.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 0704544
PO/Job No. : 04-17
Invoice No. : 131707
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER ▪ SOIL ▪ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ▪ 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE ▪ MERIDEN, CT ▪ 06451

Date Samples Received: 7/29/04

Client Name : **Shanahan Consulting**	CTL Lab No. : 0704544
Report Date : 8/11/04	PO/ Job No. : 04-17

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type :		**S**	**S**		
CTL Sample No.		**14102**	**14103**		
Field ID :		**W1**	**W2**		
Parameters	**MDL**				
Arsenic-mg/kg	1.0	11.2	6.5		
Barium-mg/kg	5	568	55		
Cadmium-mg/kg	0.5	0.6	0.6		
Chromium, Total-mg/kg	0.5	55.9	29.2		
Lead-mg/kg	0.5	150	230		
Mercury-mg/kg	0.02	1.02	0.07		
Selenium-mg/kg	0.5	BDL	BDL		
Silver-mg/kg	0.2	BDL	BDL		

Matrix Type :		**S**	**S**		
CTL Sample No.		**14102**	**14103**		
Field ID :		**W1**	**W2**		
Parameters	**MDL**				**EPA Method No.**
Reactive Cyanide-ppm	1.0	BDL	BDL		9010B
Reactive Sulfide-ppm	50	BDL	BDL		9030B
Total PCBs-ppm	1	BDL	BDL		8082

MDL= Minimum Detectable Level **BDL**= Below Detection Level

Matrix Types: W = Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Date Samples Received: 7/29/04

Client Name : **Shanahan Consulting**	CTL Lab No. : 0704544
Report Date : 8/11/04	PO/ Job No. : 04-17

RESULTS OF ANALYSIS

TCLP EPA 1311

Matrix Type :	**S**	**S**
CTL Sample No.	**14102**	**14103**
Field ID :	**W1**	**W2**

Parameters	**MDL**				
Arsenic-mg/L	0.05	BDL	BDL		
Barium-mg/L	0.1	1.8	0.4		
Cadmium-mg/L	0.005	BDL	BDL		
Chromium, Total-mg/L	0.05	BDL	BDL		
Lead-mg/L	0.005	0.036	0.502		
Mercury-mg/L	0.002	BDL	BDL		
Selenium-mg/L	0.01	BDL	BDL		
Silver-mg/L	0.01	BDL	BDL		

Field ID	**CTL #**	**MDL**	**CT ETPH -mg/kg**	**Total PCBs -ppm**		
W1	14102	25	BDL	-----		
W2	14103	25	BDL	-----		
PPPE4	14104	25	BDL	BDL		
PPPE5	14105	25	BDL	BDL		
PPPE6	14106	25	BDL	BDL		
PPPE7	14107	25	BDL	BDL		

MDL= Minimum Detectable Level **BDL**= Below Detection Level

Matrix Types: W = Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Date Samples Received: 7/29/04

Client Name : **Shanahan Consulting**	CTL Lab No. : 0704544
Report Date : 8/11/04	PO/ Job No. : 04-17

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type: S

Field ID	CTL #	Total Arsenic -mg/kg	Total Lead - mg/kg		
PPPE1	14099	13.9	-----		
PPPE2	14100	11.0	-----		
PPPE3	14101	4.3	-----		
PPPE4	14104	8.0	244		
PPPE5	14105	10.4	3.0		
PPPE6	14106	8.4	12		
PPPE7	14107	17.0	5		

Note:The Minimum Detectable Limits (MDLs) are as follows; Total Arsenic=1.0-mg/kg & Total Lead=0.5-mg/kg

SPLP EPA 1312

Matrix Type: S

Field ID	CTL #	MDL	Lead-mg/L			
PPPE4	14104	0.005	BDL			
PPPE5	14105	0.005	BDL			
PPPE6	14106	0.005	BDL			
PPPE7	14107	0.005	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 7/29/04
CTL Lab No.: 0704544	Date Analyzed: 8/05/04
Job/PO No. : 04-17	Analyst: YK
Report Date : 8/11/04	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 7/29/04

Matrix Type	**S**	**S**	**S**	**S**
CTL Sample #:	**14102**	**14103**	**14104**	**14105**
Field ID :	**W1**	**W2**	**PPPE4**	**PPPE5**

Results of Analysis

Parameters	**MDL**				
Dichlorodifluoromethane	10	BDL	BDL	BDL	BDL
Chloromethane	10	BDL	BDL	BDL	BDL
Vinyl chloride	10	BDL	BDL	BDL	BDL
Chloroethane	10	BDL	BDL	BDL	BDL
Bromomethane	10	BDL	BDL	BDL	BDL
Trichlorofluoromethane	10	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	10	BDL	BDL	BDL	BDL
Methylene chloride	10	BDL	BDL	BDL	BDL
t-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
1,1-Dichloroethane	10	BDL	BDL	BDL	BDL
2,2-Dichloropropane	10	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
Chloroform	10	BDL	BDL	BDL	BDL
Bromochloromethane	10	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	10	BDL	BDL	BDL	BDL
1,1-Dichloropropylene	10	BDL	BDL	BDL	BDL
Carbon tetrachloride	10	BDL	BDL	BDL	BDL
Benzene	10	BDL	BDL	BDL	BDL
1,2-Dichloroethane	10	BDL	BDL	BDL	BDL
Trichloroethylene	10	BDL	BDL	BDL	BDL
1,2-Dichloropropane	10	BDL	BDL	BDL	BDL
Bromodichloromethane	10	BDL	BDL	BDL	BDL
Dibromomethane	10	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
Toluene	10	BDL	BDL	BDL	BDL
t-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	10	BDL	BDL	BDL	BDL
Tetrachloroethylene	10	BDL	BDL	BDL	BDL
1,3-Dichloropropane	10	BDL	BDL	BDL	BDL
Dibromochloromethane	10	BDL	BDL	BDL	BDL
1,2-Dibromoethane (EDB)	10	BDL	BDL	BDL	BDL
Chlorobenzene	10	BDL	BDL	BDL	BDL
Ethylbenzene	10	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
p/m-Xylene	10	BDL	BDL	BDL	BDL
o-Xylene	10	BDL	BDL	BDL	BDL

NOTE: These samples were collected in sodium bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 7/29/04
CTL Lab No.: 0704544	Date Analyzed: 8/05/04
Job/PO No. : 04-17	Analyst: YK
Report Date : 8/11/04	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 7/29/04

Matrix Type	**S**	**S**	**S**	**S**
CTL Sample #:	**14102**	**14103**	**14104**	**14105**
Field ID :	**W1**	**W2**	**PPPE4**	**PPPE5**

Results of Analysis

Parameters	**MDL**				
Styrene	10	BDL	BDL	BDL	BDL
Bromoform	10	BDL	BDL	BDL	BDL
Isopropylbenzene	10	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
Bromobenzene	10	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	10	BDL	BDL	BDL	BDL
n-Propylbenzene	10	BDL	BDL	BDL	BDL
2-Chlorotoluene	10	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	10	BDL	BDL	BDL	BDL
4-Chlorotoluene	10	BDL	BDL	BDL	BDL
tert-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2,4-Trimethylbenzene	10	BDL	BDL	BDL	BDL
sec-Butylbenzene	10	BDL	BDL	BDL	BDL
p-Isopropyltoluene	10	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	10	BDL	BDL	BDL	BDL
n-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	10	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Hexachlorobutadiene	50	BDL	BDL	BDL	BDL
Naphthalene	50	BDL	BDL	BDL	BDL
1,2,3-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Methyl ethyl ketone	50	BDL	BDL	BDL	BDL
Methyl butyl ketone	50	BDL	BDL	BDL	BDL
Methyl isobutyl ketone	50	BDL	BDL	BDL	BDL
MTBE	10	BDL	BDL	BDL	BDL

NOTE: These samples were collected in sodium bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 7/29/04
CTL Lab No.: 0704544	Date Analyzed: 8/05/04
Job/PO No. : 04-17	Analyst: YK
Report Date : 8/11/04	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 7/29/04

Matrix Type	**S**	**S**
CTL Sample #:	**14106**	**14107**
Field ID :	**PPPE6**	**PPPE7**

Results of Analysis

Parameters	MDL				
Dichlorodifluoromethane	10	BDL	BDL		
Chloromethane	10	BDL	BDL		
Vinyl chloride	10	BDL	BDL		
Chloroethane	10	BDL	BDL		
Bromomethane	10	BDL	BDL		
Trichlorofluoromethane	10	BDL	BDL		
1,1-Dichloroethylene	10	BDL	BDL		
Methylene chloride	10	BDL	BDL		
t-1,2-Dichloroethylene	10	BDL	BDL		
1,1-Dichloroethane	10	BDL	BDL		
2,2-Dichloropropane	10	BDL	BDL		
cis-1,2-Dichloroethylene	10	BDL	BDL		
Chloroform	10	BDL	BDL		
Bromochloromethane	10	BDL	BDL		
1,1,1-Trichloroethane	10	BDL	BDL		
1,1-Dichloropropylene	10	BDL	BDL		
Carbon tetrachloride	10	BDL	BDL		
Benzene	10	BDL	BDL		
1,2-Dichloroethane	10	BDL	BDL		
Trichloroethylene	10	BDL	BDL		
1,2-Dichloropropane	10	BDL	BDL		
Bromodichloromethane	10	BDL	BDL		
Dibromomethane	10	BDL	BDL		
cis-1,3-Dichloropropylene	10	BDL	BDL		
Toluene	10	BDL	BDL		
t-1,3-Dichloropropylene	10	BDL	BDL		
1,1,2-Trichloroethane	10	BDL	BDL		
Tetrachloroethylene	10	BDL	BDL		
1,3-Dichloropropane	10	BDL	BDL		
Dibromochloromethane	10	BDL	BDL		
1,2-Dibromoethane (EDB)	10	BDL	BDL		
Chlorobenzene	10	BDL	BDL		
Ethylbenzene	10	BDL	BDL		
1,1,1,2-Tetrachloroethane	10	BDL	BDL		
p/m-Xylene	10	BDL	BDL		
o-Xylene	10	BDL	BDL		

NOTE: These samples were collected in sodium bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 7/29/04
CTL Lab No.: 0704544	Date Analyzed: 8/05/04
Job/PO No. : 04-17	Analyst: YK
Report Date : 8/11/04	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 7/29/04

Matrix Type	**S**	**S**
CTL Sample #:	**14106**	**14107**
Field ID :	**PPPE6**	**PPPE7**

Results of Analysis

Parameters	**MDL**				
Styrene	10	BDL	BDL		
Bromoform	10	BDL	BDL		
Isopropylbenzene	10	BDL	BDL		
1,1,2,2-Tetrachloroethane	10	BDL	BDL		
Bromobenzene	10	BDL	BDL		
1,2,3-Trichloropropane	10	BDL	BDL		
n-Propylbenzene	10	BDL	BDL		
2-Chlorotoluene	10	BDL	BDL		
1,3,5-Trimethylbenzene	10	BDL	BDL		
4-Chlorotoluene	10	BDL	BDL		
tert-Butylbenzene	10	BDL	BDL		
1,2,4-Trimethylbenzene	10	BDL	BDL		
sec-Butylbenzene	10	BDL	BDL		
p-Isopropyltoluene	10	BDL	BDL		
1,3-Dichlorobenzene	10	BDL	BDL		
1,4-Dichlorobenzene	10	BDL	BDL		
n-Butylbenzene	10	BDL	BDL		
1,2-Dichlorobenzene	10	BDL	BDL		
1,2-Dibromo-3-chloropropane	10	BDL	BDL		
1,2,4-Trichlorobenzene	10	BDL	BDL		
Hexachlorobutadiene	50	BDL	BDL		
Naphthalene	50	BDL	BDL		
1,2,3-Trichlorobenzene	10	BDL	BDL		
Methyl ethyl ketone	50	BDL	BDL		
Methyl butyl ketone	50	BDL	BDL		
Methyl isobutyl ketone	50	BDL	BDL		
MTBE	10	BDL	BDL		

NOTE: These samples were collected in sodium bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Client Name : **Shanahan Consulting**	Date Extracted: 8/02/04
CTL Lab No.: 0704544	Date Analyzed: 8/09/04
Job/PO No. : 04-17	Analyst: SR
Report Date : 8/11/04	

EPA METHOD 8270C Modified

Date Samples Rec'd: 7/29/04

Matrix Type	**S**	**S**
CTL Sample #:	**14102**	**14103**
Field ID :	**W1**	**W2**

Results of Analysis

Parameters	**MDL**				
Acenaphthene	100	BDL	BDL		
Acenaphthylene	100	BDL	BDL		
Anthracene	100	BDL	BDL		
Benzidine	100	BDL	BDL		
Benzo(a)anthracene	100	BDL	BDL		
Benzo(a)pyrene	100	BDL	124.0		
Benzo(b)fluoranthene	100	BDL	BDL		
Benzo(ghi)perylene	500	BDL	BDL		
Benzo(k)fluoranthene	100	BDL	BDL		
Bis(2-chloroethoxy) methane	100	BDL	BDL		
Bis(2-chloroethyl) ether	100	BDL	BDL		
Bis(2-chloroisopropyl) ether	100	BDL	BDL		
Bis(2-ethylhexyl) phthalate	500	BDL	BDL		
4-Bromophenyl phenyl ether	100	BDL	BDL		
Butylbenzyl phthalate	100	BDL	BDL		
Carbazole	100	BDL	BDL		
2-Chloronaphthalene	100	BDL	BDL		
4-Chlorophenyl phenyl ether	100	BDL	BDL		
Chrysene	100	BDL	166.0		
Dibenzo(a,h)anthracene	500	BDL	BDL		
1,2-Dichlorobenzene	100	BDL	BDL		
1,3-Dichlorobenzene	100	BDL	BDL		
1,4-Dichlorobenzene	100	BDL	BDL		
3,3-Dichlorobenzidine	100	BDL	BDL		
Diethyl phthalate	100	BDL	BDL		
Dimethyl phthalate	100	BDL	BDL		
Di-n-butyl phthalate	100	BDL	BDL		
2,4-Dinitrotoluene	100	BDL	BDL		
2,6-Dinitrotoluene	100	BDL	BDL		
Di-n-octyl phthalate	100	BDL	BDL		
1,2-Diphenylhydrazine	100	BDL	BDL		
Fluoranthene	100	BDL	259.0		
Fluorene	100	BDL	BDL		
Hexachlorobenzene	100	BDL	BDL		
Hexachlorobutadiene	100	BDL	BDL		

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units=** ppb

Matrix Type: W= Water/Aqueous **S**=Soil/Solid O=Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

★ Call Ned w/ $ By 7/30 SR ★

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 04-17
PROJECT NAME EAST HADDAM
COLLECTED BY NED SHANAHAN

PAGE 1 OF 1

LAB# 0704544

REMARKS:

See Quotation HGSC101303 for rates.

(✓R)

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	Arsenic - mass analysis	8 RCRA metals - TCLP + mass analysis	BZ&ot MTBE	PCBs	8270	ETPH	Reactive cyanide + sulfide	Lead - mass analysis + SPLP	SAMPLE REMARKS
PPPE1	7-29-04		Soil	Jar	1	ice below	✓								14099
PPPE2	↓		↓	↓	↓	↓	✓								↓ 100
PPPE3	↓		↓	↓	↓	↓	✓								↓ 101
W1	7-29-04		Soil	Jar/Vial	1/2	ice below		✓	✓	✓	✓	✓	✓		14102
W2	↓		↓	↓	↓	↓		✓	✓	✓	✓	✓	✓		↓ 103
PPPE4	7-29-04		Soil	Jar/Vial	1/2	ice below	✓		✓	✓		✓		✓	14104
PPPE5	↓		↓	↓	↓	↓	✓		✓	✓		✓		✓	↓ 105
PPPE6	↓		↓	↓	↓	↓	✓		✓	✓		✓		✓	↓ 106
PPPE7	↓		↓	↓	↓	↓	✓		✓	✓		✓		✓	↓ 107

REQUESTED TURNAROUND:
BEST AVAILABLE TIME ✓
PRIORITY

SAMPLE PRESERVATION REMARKS:
All containers chilled. Soil samples collected for VOC analysis preserved via Method 5035.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	7-29-04		SR
	7/29/04		

September 08, 2004

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Mr. Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
August 31, 2004.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No.	: 0804484
PO/Job No.	: 04-17
Invoice No.	: 132146
Customer No.	: 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER ▪ SOIL ▪ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ▪ 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE ▪ MERIDEN, CT ▪ 06451

Date Samples Received: 8/31/04

Client Name : **Shanahan Consulting**	CTL Lab No. : 0804484
Report Date : 9/07/04	PO/ Job No. : 04-17

RESULTS OF ANALYSIS

Mass Analysis EPA Method 3050B

Matrix Type :	**S**	**S**	**S**	**S**
CTL Sample No.:	**15934**	**15935**	**15936**	**15937**
Field ID :	**4PE1**	**4PE2**	**4PE3**	**4PE4**

Parameters	**MDL**				
Total Arsenic-mg/kg	1.0	4.9	9.5	4.8	24.2

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

September 13, 2004

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Mr. Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
September 08, 2004.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No.	:	0804484
PO/Job No.	:	04-17
Invoice No.	:	132249
Customer No.	:	691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER ▪ SOIL ▪ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ▪ 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE ▪ MERIDEN, CT ▪ 06451

Date Samples Received: 8/31/04
Date Samples Reactivated: 9/08/04

Client Name : **Shanahan Consulting**	CTL Lab No. : 0804484
Report Date : 9/13/04	PO/ Job No. : 04-17

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type :	**S**
CTL Sample No.:	**15937**
Field ID :	**4PE4**

Parameters	**MDL**				
Arsenic-mg/L	0.05	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 04-17

PROJECT NAME EAST HADDAM

COLLECTED BY NED SHANAHAN

LAB# 0804484

REMARKS:

See Quotation HGSC101303 for rates.

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED: Arsenic - mass analysis	ANALYSES REQUESTED: SPLP Arsenic	SAMPLE REMARKS
4PE1	8-31-04		Soil	Jar	1	Chilled	✓		
4PE2	↓		↓	↓	↓	↓	✓		
4PE3	↓		↓	↓	↓	↓	✓		
4PE4	↓		↓	↓	↓	↓	✓	✓	SPLP test added 9-8-04. NS

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY _____

SAMPLE PRESERVATION REMARKS:
All containers chilled. Soil samples collected for VOC analysis preserved via Method 5035.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	8-31-04	12:15	M McMahon

Appendix D

Records of Waste Soil Disposal

NON-RCRA HAZARDOUS WASTE MANIFEST

PS A 81181

1. GENERATOR'S NAME AND MAILING ADDRESS	GENERATOR'S SITE ADDRESS
Town of East Haddam 7 Main St. East Haddam CT 06423	1 Main Street East Haddam CT 06423
2. GENERATOR'S PHONE: (860) 873-5020	

3. TRANSPORTER 1 COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER 1 'S PHONE	TRANSPORTER'S PLATE NUMBER
Underground Systems Inc.	NOT APPLICABLE	(860) 651-6545	H-75734
5. TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER 2'S PHONE	TRANSPORTER'S PLATE NUMBER
	NOT APPLICABLE	( )	

7. DESIGNATED FACILITY NAME AND SITE ADDRESS	8. MAILING ADDRESS	C. FACILITY'S PHONE
PHOENIX SOIL LLC 130 FREIGHT STREET WATERBURY, CT 06702	PHOENIX SOIL LLC PO BOX 1750 WATERBURY, CT 06721-1750	(203)-759-0053

9. US DOT DESCRIPTION *(INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID NUMBER)*	10. CONTAINERS NO.	10. CONTAINERS TYPE	11. TOTAL QUANTITY	12. UNIT WT/VOL
a. CONNECTICUT REGULATED WASTE SOLID, NONE, NONE	001	DT	00020	T
b.				
c.				

D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE	E. HANDLING CODES FOR WASTES LISTED ABOVE	
	INTERIM	FINAL
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS	SO2	T57

13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable national government regulations, and all applicable State of Connecticut laws and regulations. I certify that this material neither contains polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor has been mixed in anyway with PCB's in concentrations greater than or equal to 50 ppm. I certify that the material listed above contained no free liquids at the time of loading

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
James Vinton	James Vinton Signed	8	12	02

15. TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Michael Falco	Michael Falco	8	12	02

16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR

17. DISCREPANCY INDICATION SPACE

11(a) CORRECTED WEIGHT AS SCALED 21.69 TON'S

18. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF WASTE MATERIALS COVERED BY THIS MANIFEST EXCEPT AS NOTED IN ITEM 13 PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Shawn Hutton	Shawn Hutton	8	12	02

COPY 3: FACILITY TO GENERATOR

10132

NON-RCRA HAZARDOUS WASTE MANIFEST

PS A 81182

1. GENERATOR'S NAME AND MAILING ADDRESS
Town of East Haddam
1 Main Street, East Haddam CT 06423

GENERATOR'S SITE ADDRESS
1 Main Street
East Haddam CT 06423

2. GENERATOR'S PHONE: (860) 873-5020

3. TRANSPORTER 1 COMPANY NAME: Underground Systems Inc.

4. US EPA ID NUMBER: NOT APPLICABLE

A. TRANSPORTER 1'S PHONE: (860)651-6545

TRANSPORTER'S PLATE NUMBER: J-32332

5. TRANSPORTER 2 COMPANY NAME:

6. US EPA ID NUMBER: NOT APPLICABLE

B. TRANSPORTER 2'S PHONE: ( )

TRANSPORTER'S PLATE NUMBER:

7. DESIGNATED FACILITY NAME AND SITE ADDRESS
PHOENIX SOIL LLC
130 FREIGHT STREET
WATERBURY, CT 06702

8. MAILING ADDRESS
PHOENIX SOIL LLC
PO BOX 1750
WATERBURY, CT 06721-1750

C. FACILITY'S PHONE
(203)-759-0053

9. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID NUMBER)	10. CONTAINERS NO.	10. CONTAINERS TYPE	11. TOTAL QUANTITY	12. UNIT WT/VOL
a. CONNECTICUT REGULATED WASTE SOLID, NONE, NONE	001	DT	00020	T
b.				
c.				

D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS

E. HANDLING CODES FOR WASTES LISTED ABOVE
INTERIM: SO2
FINAL: T57

13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable national government regulations, and all applicable State of Connecticut laws and regulations. I certify that this material neither contains polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor has been mixed in anyway with PCB's in concentrations greater than or equal to 50 ppm. I certify that the material listed above contained no free liquids at the time of loading.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
James Ventres		8	12	02

15. TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Mark J. Sevetz		8	12	02

16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR

17. DISCREPANCY INDICATION SPACE

11(a) CORRECTED WEIGHT AS SCALED 19.98 TON'S

18. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF WASTE MATERIALS COVERED BY THIS MANIFEST EXCEPT AS NOTED IN ITEM 13.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
		8	12	02

COPY 3: FACILITY TO GENERATOR

NON-RCRA HAZARDOUS WASTE MANIFEST

PS A 81183

1. GENERATOR'S NAME AND MAILING ADDRESS	GENERATOR'S SITE ADDRESS
Town of East Haddam 7 Main Street, East Haddam CT 06423	1 Main Street East Haddam CT 06423
2. GENERATOR'S PHONE (860) 873-5020	

3. TRANSPORTER 1 COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER 1'S PHONE	TRANSPORTER'S PLATE NUMBER
Underground Systems Inc.	NOT APPLICABLE	(860) 651-6545	1795734
5. TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER 2'S PHONE	TRANSPORTER'S PLATE NUMBER
	NOT APPLICABLE	( )	

7. DESIGNATED FACILITY NAME AND SITE ADDRESS	8. MAILING ADDRESS	C. FACILITY'S PHONE
PHOENIX SOIL LLC 130 FREIGHT STREET WATERBURY, CT 06702	PHOENIX SOIL LLC PO BOX 1750 WATERBURY, CT 06721-1750	(203)-759-0053

9. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID NUMBER)	10. CONTAINERS NO.	10. CONTAINERS TYPE	11. TOTAL QUANTITY	12. UNIT WT/VOL
a. CONNECTICUT REGULATED WASTE SOLID, NONE, NONE	001	DT	00020	T
b.				
c.				

D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE	E. HANDLING CODES FOR WASTES LISTED ABOVE
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS	INTERIM: SO2 FINAL: T57

13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable national government regulations, and all applicable State of Connecticut laws and regulations. I certify that this material neither contains polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor has been mixed in anyway with PCB's in concentrations greater than or equal to 50 ppm. I certify that the material listed above contained no free liquids at the time of loading.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
James Ventres		8	12	02

15. TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Michael Isley		8	12	02

16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR

17. DISCREPANCY INDICATION SPACE

11(a) CORRECTED WEIGHT AS SCALED 18.74 TON'S

18. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF WASTE MATERIALS COVERED BY THIS MANIFEST EXCEPT AS NOTED IN ITEM 13.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Michael Isley		8	12	02

COPY 3: FACILITY TO GENERATOR

10133

NON-RCRA HAZARDOUS WASTE MANIFEST

PS A 81187

1. GENERATOR'S NAME AND MAILING ADDRESS	GENERATOR'S SITE ADDRESS
Town of East Haddam 7 Main St. East Haddam CT 06423	1 Main Street East Haddam CT
2. GENERATOR'S PHONE: (860 873-5020	

3. TRANSPORTER 1 COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER 1 'S PHONE	TRANSPORTER'S PLATE NUMBER
Underground Systems Inc.	NOT APPLICABLE	860 651-6545	J-32332
5. TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER 2'S PHONE	TRANSPORTER'S PLATE NUMBER
	NOT APPLICABLE	( )	

7. DESIGNATED FACILITY NAME AND SITE ADDRESS	8. MAILING ADDRESS	C. FACILITY'S PHONE
PHOENIX SOIL LLC 130 FREIGHT STREET WATERBURY, CT 06702	PHOENIX SOIL LLC PO BOX 1750 WATERBURY, CT 06721-1750	(203)-759-0053

9. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID NUMBER)	10. CONTAINERS NO.	TYPE	11. TOTAL QUANTITY	12. UNIT WT/VOL
a. CONNECTICUT REGULATED WASTE SOLID, NONE, NONE	001	DT	00020	T
b.				
c.				

D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE	E. HANDLING CODES FOR WASTES LISTED ABOVE	
	INTERIM	FINAL
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS	SO2	T57

13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable national government regulations, and all applicable State of Connecticut laws and regulations. I certify that this material neither contains polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor has been mixed in anyway with PCB's in concentrations greater than or equal to 50 ppm. I certify that the material listed above contained no free liquids at the time of loading.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Susan Merrow	Susan Merrow, Town of East Haddam	8	13	02

15. TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Jason Perry		8	13	02

16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR

17. DISCREPANCY INDICATION SPACE

11(a) CORRECTED WEIGHT AS SCALED 15.30 TON'S

18. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF WASTE MATERIALS COVERED BY THIS MANIFEST EXCEPT AS NOTED IN ITEM 13

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Scott Mullen		8	13	02

COPY 3: FACILITY TO GENERATOR

10133

NON-RCRA HAZARDOUS WASTE MANIFEST

PS A 81179

1. GENERATOR'S NAME AND MAILING ADDRESS	GENERATOR'S SITE ADDRESS
TOWN OF EAST HADDAM 7 MAIN ST EAST HADDAM, CT 06423 2. GENERATOR'S PHONE: (860) 873-5020	1 MAIN ST EAST HADDAM CT 06423

3. TRANSPORTER 1 COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER 1'S PHONE	TRANSPORTER'S PLATE NUMBER
UNDERGROUND SYSTEMS, INC	NOT APPLICABLE	(860) 651-6545	H-75531
5. TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER 2'S PHONE	TRANSPORTER'S PLATE NUMBER
	NOT APPLICABLE	( )	

7. DESIGNATED FACILITY NAME AND SITE ADDRESS	8. MAILING ADDRESS	C. FACILITY'S PHONE
PHOENIX SOIL LLC 130 FREIGHT STREET WATERBURY, CT 06702	PHOENIX SOIL LLC PO BOX 1750 WATERBURY, CT 06721-1750	(203)-759-0053

9. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID NUMBER)	10. CONTAINERS NO.	10. CONTAINERS TYPE	11. TOTAL QUANTITY	12. UNIT WT/VOL
a. CONNECTICUT REGULATED WASTE SOLID, NONE, NONE	001	DT	00020	T
b.				
c.				

D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE	E. HANDLING CODES FOR WASTES LISTED ABOVE	
	INTERIM	FINAL
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS	SO2	T57

13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable national government regulations, and all applicable State of Connecticut laws and regulations. I certify that this material neither contains polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor has been mixed in anyway with PCB's in concentrations greater than or equal to 50 ppm. I certify that the material listed above contained no free liquids at the time of loading.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
SUSAN MERRONE	[signature]	8	13	02

15. TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Michael Isleb	[signature]	8	13	02

16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR

17. DISCREPANCY INDICATION SPACE

11(a) CORRECTED WEIGHT AS SCALED 21.62 TON'S

18. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF WASTE MATERIALS COVERED BY THIS MANIFEST EXCEPT AS NOTED IN ITEM 13

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Shaun Mercier	[signature]	8	13	02

COPY 3: FACILITY TO GENERATOR

10133

NON-RCRA HAZARDOUS WASTE MANIFEST

PS A 81180

1. GENERATOR'S NAME AND MAILING ADDRESS	GENERATOR'S SITE ADDRESS
Town of East Haddam 7 Main St / East Haddam CT 06423	1 Main Street East Haddam CT 06423
2. GENERATOR'S PHONE: (860) 873-5020	

3. TRANSPORTER 1 COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER 1'S PHONE	TRANSPORTER'S PLATE NUMBER
Underground Systems Inc.	NOT APPLICABLE	(860) 651-6545	J 32332
5. TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER 2'S PHONE	TRANSPORTER'S PLATE NUMBER
	NOT APPLICABLE	( )	

7. DESIGNATED FACILITY NAME AND SITE ADDRESS	8. MAILING ADDRESS	C. FACILITY'S PHONE
PHOENIX SOIL LLC 130 FREIGHT STREET WATERBURY, CT 06702	PHOENIX SOIL LLC PO BOX 1750 WATERBURY, CT 06721-1750	(203)-759-0053

9. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID NUMBER)	10. CONTAINERS NO.	10. CONTAINERS TYPE	11. TOTAL QUANTITY	12. UNIT WT/VOL
a. CONNECTICUT REGULATED WASTE SOLID, NONE, NONE	001	DT	00020	T
b.				
c.				

D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE	E. HANDLING CODES FOR WASTES LISTED ABOVE	
	INTERIM	FINAL
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS	SO2	T57

13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable national government regulations, and all applicable State of Connecticut laws and regulations. I certify that this material neither contains polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor has been mixed in anyway with PCB's in concentrations greater than or equal to 50 ppm. I certify that the material listed above contained no free liquids at the time of loading.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
James Ventres	James Ventres Agent	8	12	02

15. TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Jason Purdy		8	13	02

16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR

17. DISCREPANCY INDICATION SPACE

11(a) CORRECTED WEIGHT AS SCALED 23.23 TON'S

18. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF WASTE MATERIALS COVERED BY THIS MANIFEST EXCEPT AS NOTED IN ITEM 13

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
		8	13	2

COPY 3: FACILITY TO GENERATOR

WASTE MANAGEMENT

COTTAGE STREET LANDFILL
4 TECHNOLOGY DRIVE
WESTBORO, MA 01581

COPY

Customer: TOWN OF EAST HADDAM/TOWN HAL
Account Number: 455-0000048-2034-
Invoice Date: 12/01/200
Invoice Number: 0000202-2034-
Terms: Due Upon Receip
WM ezPay Account ID: 00012-02637-920(

Date	Ticket	Description	Quantity	U/M	Rate	Amount
11/22/04	019676	Veh#:fred Contaminated soil Gnrtr:non ap	16.66	TON	9.00	149.94
11/22/04	019713	Veh#:fred Contaminated soil Gnrtr:non ap	18.09	TON	9.00	162.81
		Total Current Charges				312.75

908957

WASTE MANAGEMENT

COTTAGE STREET LANDFILL
4 TECHNOLOGY DRIVE
WESTBORO, MA 01581

COPY

Customer: TOWN OF EAST HADDAM/TOWN GARAG
Account Number: 455-0000049-2034-4
Invoice Date: 12/01/2004
Invoice Number: 0000203-2034-7
Terms: Due Upon Receip
WM ezPay Account ID: 00012-02638-0200

Date	Ticket	Description	Quantity	U/M	Rate	Amount
11/23/04	019771	Veh#:fred Contaminated soil Gnrtr:non ap	16.80	TON	9.00	151.20
11/23/04	019827	Veh#:fred Contaminated soil Gnrtr:non ap	21.18	TON	9.00	190.62
11/24/04	019931	Veh#:fred Contaminated soil Gnrtr:non ap	22.24	TON	9.00	200.16
11/24/04	019987	Veh#:fred Contaminated soil Gnrtr:non ap	22.76	TON	9.00	204.84
11/29/04	020140	Veh#:fred Contaminated soil Gnrtr:non ap	19.44	TON	9.00	174.96
11/29/04	020185	Veh#:fred Contaminated soil Gnrtr:non ap	20.96	TON	9.00	188.64
11/30/04	020246	Veh#:fred Contaminated soil Gnrtr:non ap	14.64	TON	9.00	131.76

Total Current Charges 1,242.18

Printed on Recycled Paper

WASTE MANAGEMENT®

COTTAGE STREET LANDFILL
4 TECHNOLOGY DRIVE
WESTBORO, MA 01581

Customer: TOWN OF EAST HADDAM/TOWN HALL
Account Number: 455-0000048-2034-6
Invoice Date: 12/16/2004
Invoice Number: 0000215-2034-1
Terms: Due Upon Receipt
WM ezPay Account ID: 00012-02637-92003

Date	Ticket	Description	Quantity	U/M	Rate	Amount
12/07/04	020901	Veh#:bl Contaminated soil Gnrtr:non ap	24.58	TON	9.00	221.22
12/07/04	020934	Veh#:bl Contaminated soil Gnrtr:non ap	26.88	TON	9.00	241.92
		Total Current Charges				0.00
						463.14

740010

Printed on Recycled Paper

COPY

WASTE MANAGEMENT

WASTE MANAGEMENT
4 Technology Drive
Westborough, MA 01581
(508) 836-5600

INVOICE

Town of East Haddam/Town Garage
PO Box K
East Haddam, CT 06423-0295

Acct. #455-49
Invoice- Manual
12/1/2004

TICKET	DESCRIPTION	QUANTITY	PER		RATE		EXTENDED
19868	Contaminated Soil	21.730	ton	$	9.00	$	195.57
	Ticket charged to another acct in error.						

TOTAL OF CURRENT CHARGES 195.57

Please Remit to:

4 Technology Drive
Westboro, MA 01581

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

COPY

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Tracking Number

J. Load Information

Note: Make additional copies of this page as necessary.

Load#: 1

Signature of transporter

Receiving facility: Cottage St.

Date received | Time received

Date of shipment: 11-22-24 | Time of shipment

Truck/Tractor registration

Trailer registration

Load size (cubic yards/tons): 16.66

Load#: 2

Signature of transporter

Receiving facility: Cottage St

Date received | Time received

Date of shipment: 11-22-24 | Time of shipment

Truck/Tractor registration

Trailer registration

Load size (cubic yards/tons): 18.09

Load#: 3

Signature of transporter

Receiving facility

Date received | Time received

Date of shipment: 11-23-24 | Time of shipment

Truck/Tractor registration

Trailer registration

Load size (cubic yards/tons): 16.20

K. Log Sheet Volume Information

Total volume this page (cubic yards/tons)

Total carried forward (cubic yards/tons)

Page _____ of _____

Total carried forward and this page (cubic yards/tons)

WASTE MANAGEMENT
COTTAGE STREET CLOSURE PROJECT
399 COTTAGE STREET
SPRINGFIELD, MA 01104
TEL: (413) 739-2805

COPY

WM Cottage St Closure Project
399 Cottage St
Springfield, MA 01104

TICKET: 19676
DATE: 11/22/2004
TIME: 09:40 - 09:40

CUSTOMER: 48 / Town of East Haddam/Town Hall
GENERATOR: NA / Non App PROFILE #: CT0073
ORIGIN: NA / Non App
TRUCK: FRED LICENSE:
TRAILER:
ROUTE: NA / Non App
COMMENT:

P.O.:
GROSS: 61820 LBS
TARE: 28500 LBSManual
NET: 33320 LBS

WASTE	NET/TONS	UNIT
750 / CONTAMINATED SOIL	16.66	T

Driver: _____
IN: Renee MastoFakif By/MASSPRI03PC

Weighmaster: _____
OUT: Renee MastoFakif B : MASSPRI03PC

WASTE MANAGEMENT

COTTAGE STREET CLOSURE PROJECT
399 COTTAGE STREET
SPRINGFIELD, MA 01104
TEL: (413) 739-2805

COPY

WM Cottage St Closure Project
399 Cottage St
Springfield, MA 01104

TICKET: 19713
DATE: 11/22/2004
TIME: 12:33 - 12:34

CUSTOMER: 48 / Town of East Haddam/Town Hall
GENERATOR: NA / Non App PROFILE #: CT0073
ORIGIN: NA / Non App
TRUCK: FRED LICENSE:
TRAILER:
ROUTE: NA / Non App
COMMENT:

P.O.:
GROSS: 64680 LBS
TARE: 28500 LBSManual
NET: 36180 LBS

WASTE	NET/TONS	UNIT
750 / CONTAMINATED SOIL	18.09	T

Driver: _____
IN: Renee MastoFakif D: MASPRIO3PC

Weighmaster: _____
OUT: Renee MastoFakif D: MASPRIO3PC

404-Springfield

WASTE MANAGEMENT

COTTAGE STREET CLOSURE PROJECT
399 COTTAGE STREET
SPRINGFIELD, MA 01104
TEL: (413) 739-2805

COPY

WM Cottage St Closure Project
339 Cottage St
Springfield, MA 01104

TICKET: 19771
DATE: 11/23/2004
TIME: 07:03 - 07:03

CUSTOMER: 49 / Town of East Haddam/Town Garage
GENERATOR: NA / Non App PROFILE #: CT0074
ORIGIN: NA / Non App
TRUCK: FRED LICENSE:
TRAILER:
ROUTE: NA / Non App
COMMENT:

P.O.:
GROSS: 62100 LBS
TARE: 28500 LBSManual
NET: 33600 LBS

WASTE	NET/TONS	UNIT
750 / CONTAMINATED SOIL	15.80	T

Driver: _____
IN: Renee Mastofakif B: MASPR1030C

Weighmaster: _____
OUT: Renee Mastofakif B : MASPR1030C

404-Springfield

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

CT0074
Tracking Number

J. Load Information

Note:
Make additional copies of this page as necessary.

Load#: 1

Thomas Trombley
Signature of transporter

Receiving facility

Date received | Time received | Date of shipment | Time of shipment

Truck/Tractor registration | Trailer registration

21.18
Load size (cubic yards/tons)

Load#: 2

Thomas Trombley
Signature of transporter

Receiving facility

Date received | Time received | Date of shipment | Time of shipment

Truck/Tractor registration | Trailer registration

21.73
Load size (cubic yards/tons)

Load#: _____

Signature of transporter

Receiving facility

Date received | Time received | 11-24-4 Date of shipment | Time of shipment

Truck/Tractor registration | Trailer registration

22.24
Load size (cubic yards/tons)

K. Log Sheet Volume Information

Total volume this page (cubic yards/tons)

Total carried forward (cubic yards/tons)

Total carried forward and this page (cubic yards/tons)

Page _____ of _____

WASTE MANAGEMENT
COTTAGE STREET CLOSURE PROJECT
399 COTTAGE STREET
SPRINGFIELD, MA 01104
TEL: (413) 739-2805

COPY

WM Cottage St Closure Project
399 Cottage St
Springfield, MA 01104

TICKET: 13827
DATE: 11/23/2004
TIME: 09:49 - 09:49

CUSTOMER: 43 / Town of East Haddam/Town Garage
GENERATOR: NA / Non App
ORIGIN: NA / Non App
TRUCK: FRED
TRAILER:
ROUTE: NA / Non App
COMMENT:

PROFILE #: CT0074
LICENSE:

P.O.:
GROSS: 70860 LBS
TARE: 28500 LBSManual
NET: 42360 LBS

WASTE	NET/TONS	UNIT
750 / CONTAMINATED SOIL	21.18	T

Driver: _____
IN: Renee Mastofakif B: MASPRI03PC

Weighmaster: _____
OUT: Renee Mastofakif B : MASPRI03PC

M 404-Springfield

WASTE MANAGEMENT

COTTAGE STREET CLOSURE PROJECT

399 COTTAGE STREET
SPRINGFIELD, MA 01104
TEL: (413) 739-2805

WM Cottage St Closure Project
399 Cottage St
Springfield, MA 01104

TICKET: 19868
DATE: 11/23/2004
TIME: 12:18 - 12:18

CUSTOMER: 52 / Clean Harbors Enviro/Adrieans Landing
GENERATOR: NA / Non App
ORIGIN: NA / Non App
TRUCK: FRED
TRAILER:
ROUTE: NA / Non App
COMMENT:

PROFILE #: CT0076
LICENSE:

P.O.:
GROSS: 71960 LBS
TARE: 28500 LBSManual
NET: 43460 LBS

WASTE	NET/TONS	UNIT
750 / CONTAMINATED SOIL	21.73	T
FUELSUR /		

Driver: _____ Weighmaster: _____

IN: Renee Mastofakif B: MASPRI02PC OUT: Renee Mastofakif B : MASPRI02PC

W 404-Springfield

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

COPY

Tracking Number

J. Load Information

Note: Make additional copies of this page as necessary.

Load#:

Signature of transporter

Receiving facility

Date received | Time received | Date of shipment | Time of shipment

Truck/Tractor registration | Trailer registration

Load size (cubic yards/tons) 22.74

Load#:

Signature of transporter

Receiving facility

Date received | Time received | Date of shipment 11-29-4 | Time of shipment

Truck/Tractor registration | Trailer registration

Load size (cubic yards/tons) 19.44

Load#:

Signature of transporter

Receiving facility

Date received | Time received | Date of shipment | Time of shipment

Truck/Tractor registration | Trailer registration

Load size (cubic yards/tons) 20.96

K. Log Sheet Volume Information

Total volume this page (cubic yards/tons)

Total carried forward (cubic yards/tons)

Page _____ of _____

Total carried forward and this page (cubic yards/tons)

WASTE MANAGEMENT

COTTAGE STREET CLOSURE PROJECT
399 COTTAGE STREET
SPRINGFIELD, MA 01104
TEL: (413) 739-2805

COPY

WM Cottage St Closure Project
399 Cottage St
Springfield, MA 01104

TICKET: 19987
DATE: 11/24/2004
TIME: 09:46 - 09:46

CUSTOMER: 49 / Town of East Haddam/Town Garage
GENERATOR: NA / Non App PROFILE #: CT0074
ORIGIN: NA / Non App
TRUCK: FRED LICENSE:
TRAILER:
ROUTE: NA / Non App
COMMENT:

P.O.:
GROSS: 74020 LBS
TARE: 28500 LBSManual
NET: 45520 LBS

WASTE	NET/TONS	UNIT
750 / CONTAMINATED SOIL	22.76	T

Driver: _____
IN: Renee Mastofakif B: MASPRI03PC

Weighmaster: _____
OUT: Renee Mastofakif B: MASPRI03PC

404-Springfield

WASTE MANAGEMENT
COTTAGE STREET CLOSURE PROJECT
399 COTTAGE STREET
SPRINGFIELD, MA 01104
TEL: (413) 739-2805

COPY

WM Cottage St Closure Project
399 Cottage St
Springfield, MA 01104

TICKET: 20140
DATE: 11/29/2004
TIME: 09:24 - 09:24

CUSTOMER: 49 / Town of East Haddam/Town Garage
GENERATOR: NA / Non App
PROFILE #: CT0074
ORIGIN: NA / Non App
TRUCK: FRED
LICENSE:
TRAILER:
ROUTE: NA / Non App
COMMENT:

P.O.:
GROSS: 67380 LBS
TARE: 28500 LBSManual
NET: 38880 LBS

WASTE	NET/TONS	UNIT
750 / CONTAMINATED SOIL	19.44	T

Drivers: Tom
IN: Renee Mastafakif B: MASPR103PC

Weighmasters:
OUT: Renee Mastafakif B : MASPR103PC

404-Springfield

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

COPY

Tracking Number

J. Load Information

Note:
Make additional copies of this page as necessary.

Load#: _____

James Sullivan
Signature of transporter

Receiving facility

Date received | Time received

Date of shipment | Time of shipment

Truck/Tractor registration

Trailer registration

14.64
Load size (cubic yards/tons)

Load#: _____

Signature of transporter

Receiving facility

Date received | Time received

Date of shipment | Time of shipment

Truck/Tractor registration

Trailer registration

Load size (cubic yards/tons)

Load#: _____

Signature of transporter

Receiving facility

Date received | Time received

Date of shipment | Time of shipment

Truck/Tractor registration

Trailer registration

Load size (cubic yards/tons)

K. Log Sheet Volume Information

Total volume this page (cubic yards/tons)

Page _____ of _____

Total carried forward (cubic yards/tons)

Total carried forward and this page (cubic yards/tons)

COPY

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention

Material Shipping Record & Log

CT0073
Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

J. Load Information

Note: Make additional copies of this page as necessary.

Load#: 1

Signature of transporter: Danny Jankowski

Receiving facility: W-M cottage ST MA

Date received: 12-7-04 Time received:

Date of shipment: 12-7-04 Time of shipment: 10.00 am

Truck/Tractor registration: 34776-A

Trailer registration: V-59456

Load size (cubic yards/tons): 24.58

Load#: 2

Signature of transporter: Danny Jankowski

Receiving facility: W-M cottage ST MA

Date received: 12-7-04 Time received:

Date of shipment: 12-7-04 Time of shipment: 12:30

Truck/Tractor registration: 34776-A

Trailer registration: V-59456

Load size (cubic yards/tons): 26.28

Load#:

Signature of transporter

Receiving facility

Date received Time received

Date of shipment Time of shipment

Truck/Tractor registration

Trailer registration

Load size (cubic yards/tons)

K. Log Sheet Volume Information

Total volume this page (cubic yards/tons)

Total carried forward (cubic yards/tons)

Total carried forward and this page (cubic yards/tons)

Page _____ of _____

WASTE MANAGEMENT

COTTAGE STREET CLOSURE PROJECT
399 COTTAGE STREET
SPRINGFIELD, MA 01104
TEL: (413) 739-2805

COPY

WM Cottage St Closure Project
399 Cottage St
Springfield, MA 01104

TICKET: 20901
DATE: 12/07/2004
TIME: 11:39 - 11:39

CUSTOMER: 48 / Town of East Haddam/Town Soil
GENERATOR: NA / Non App PROFILE #: CT0073
ORIGIN: NA / Non App
TRUCK: BL LICENSE:
TRAILER:
ROUTE: NA / Non App
COMMENT:

P.O.:
GROSS: 77460 LBS
TARE: 28300 LBSManual
NET: 49160 LBS

WASTE	NET/TONS	UNIT
750 / CONTAMINATED SOIL	24.58	T

Drivers:
IN: Renee Nastofaki F Id: MASPRI03PC

Weighmasters:
OUT: Renee Nastofaki F Id: MASPRI03PC

WM 404-Springfield

WASTE MANAGEMENT

COTTAGE STREET CLOSURE PROJECT
399 COTTAGE STREET
SPRINGFIELD, MA 01104
TEL: (413) 739-2805

COPY

WM Cottage St Closure Project
399 Cottage St
Springfield, MA 01104

TICKET: 20934
DATE: 12/07/2004
TIME: 13:56 - 13:56

CUSTOMER: 40 / Town of East Haddam/Town Hall
GENERATOR: NA / Non App PROFILE #: CT0073
ORIGIN: NA / Non App
TRUCK: BL LICENSE:
TRAILER:
ROUTE: NA / Non App
COMMENT:

P.O.:
GROSS: 82060 LBS
TARE: 28300 LBSManual
NET: 53760 LBS

WASTE	NET/TONS	UNIT
750 / CONTAMINATED SOIL	26.88	T

Driver: _____
IN: Renee Kasta[illegible] B: MASPRIO3PC

Weighmaster: _____
OUT: Renee KastaFaki[illegible] B: MASPRIO3PC

404-Springfield

Appendix E

Soil Gas Survey by Hygenix, Inc.

Table 1: Summary of Soil Gas Survey Results

Location	PID Reading (10.2 eV lamp)	PID Reading (11.7 eV lamp)
SG-1	Not-detected	Not-detected
SG-2	Not-detected	Not-detected
SG-3	Not-detected	Not-detected
SG-4	Not-detected	Not-detected
SG-5	Not-detected	Not-detected
SG-6	Not-detected	Not-detected
SG-7	Not-detected	Not-detected
SG-8	Not-detected	Not-detected
SG-9	Not-detected	Not-detected
SG-10	Not-detected	Not-detected
SG-11	Not-detected	Not-detected
SG-12	Trace	Not-detected
SG-13	Not-detected	Not-detected
SG-14	Trace	Not-detected
SG-15	Trace	Not-detected
SG-16	1 ppm	Not-detected
SG-17	Trace	Not-detected
SG-18	1 ppm	Not-detected
SG-19	15 ppm	5 ppm

Appendix F

Boring Logs and Monitor Well Diagrams

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # W-1

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

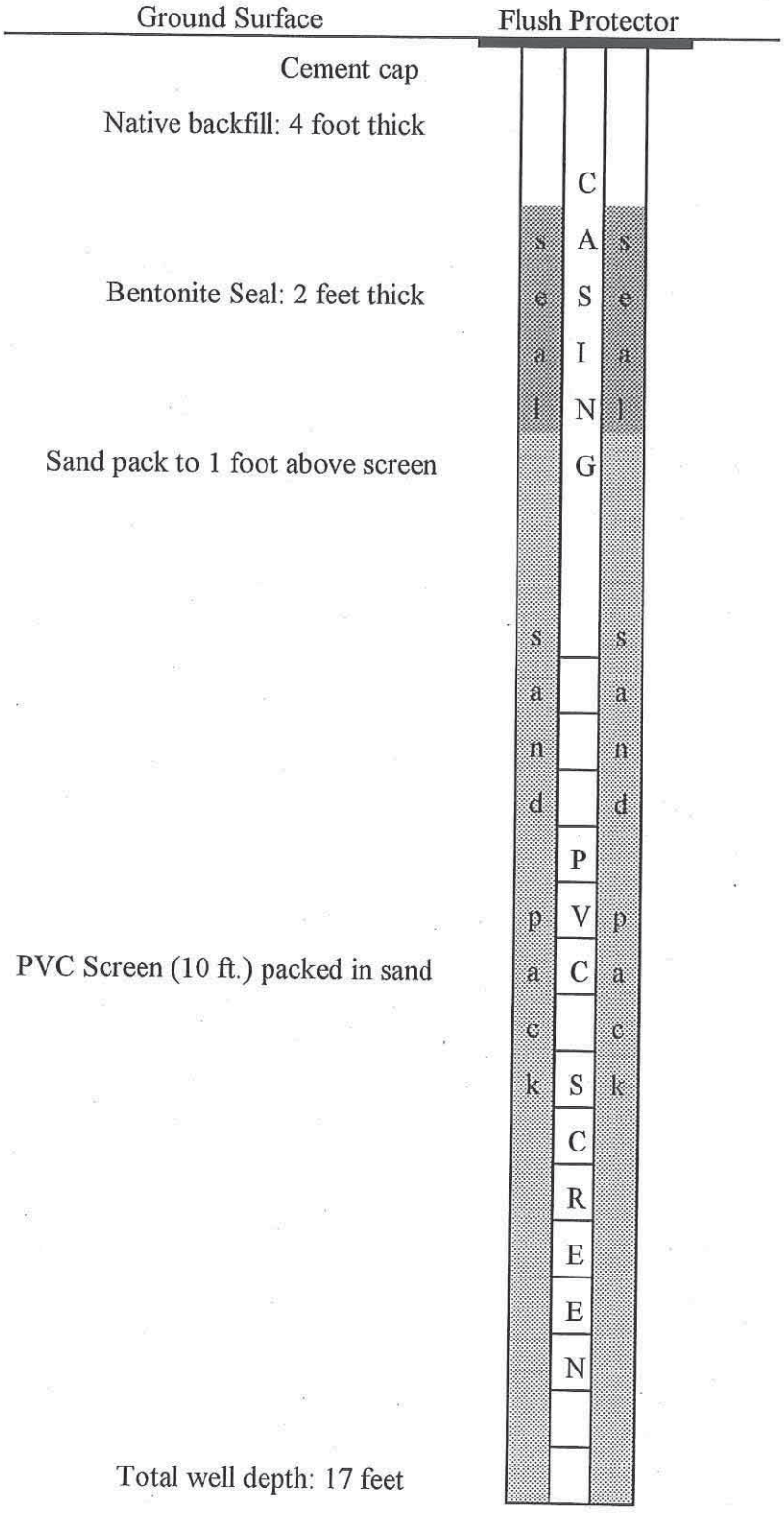
CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 11/12/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
1	1.0	3.0	5	8	6	6	8"	DRY	0.6	Concrete
										Br. F. Sand, Some Silt
										Some C-F Gravel
2	5.0	7.0	17	12	13	15	10"	DRY		
									7.0	
										Br. F. Sand and Silt
3	10.0	12.0	5	7	6	6	12"	WET		
									17.0	
										End of Boring - 17.0
										G.W.O. - 9.0
										WELL INSTALLED @ 17.0'
										10' SCREEN
										6.5' RISER
										FLUSH PROTECTOR

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL



CONSTRUCTION DIAGRAM FOR MONITOR WELL W1

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # W-2

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

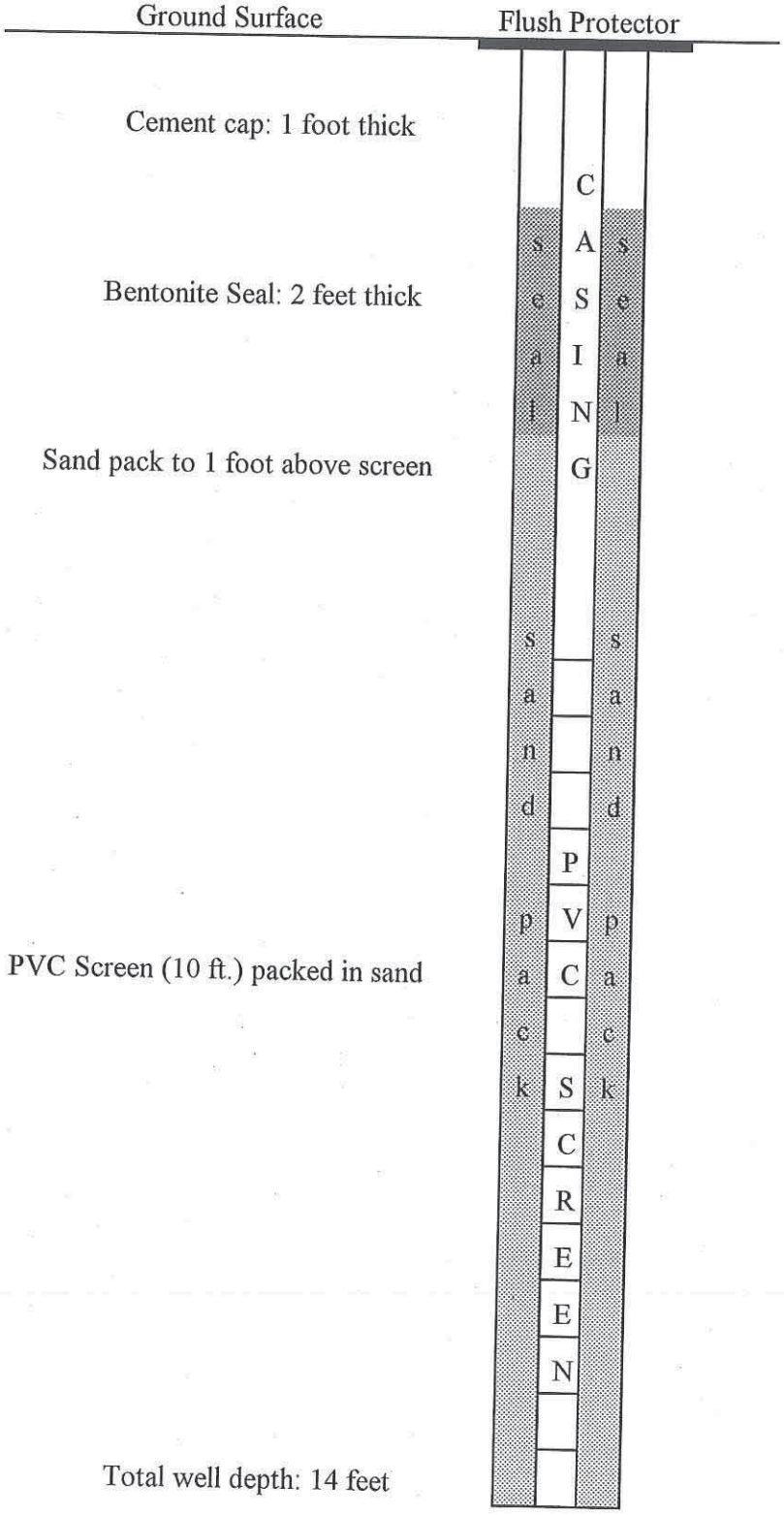
CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 11/12/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
									0.6	Bituminous Concrete
										M. Gravel (Fill)
									7.0	
										Br. F. Sand, Some Silt
									15.0	
										End of Boring - 15.0
										G.W.O. - 8.0
										WELL INSTALLED @ 14.0'
										10' SCREEN
										4.5' RISER
										FLUSH PROTECTOR

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL



CONSTRUCTION DIAGRAM FOR MONITOR WELL W2

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # W-3

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

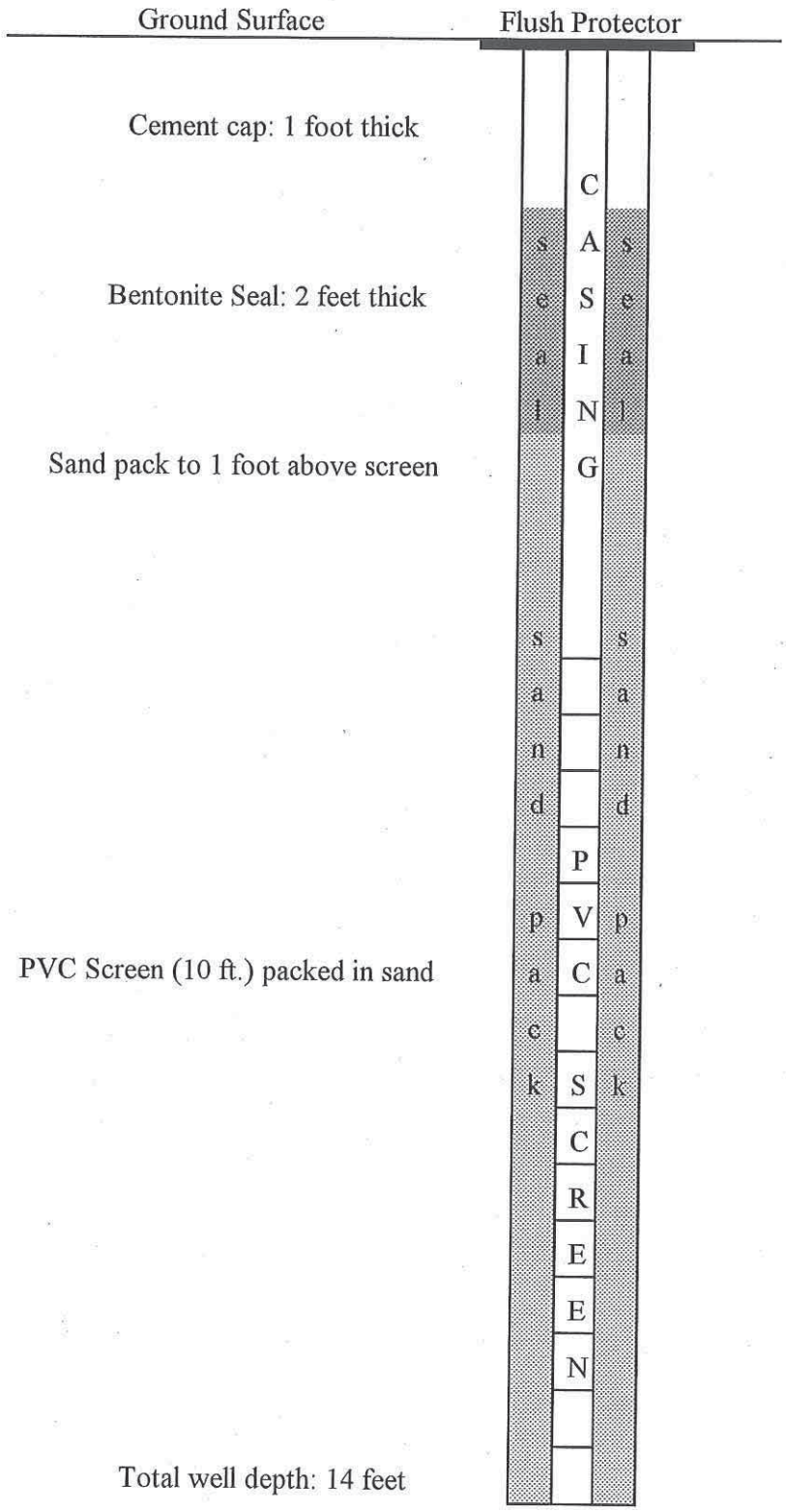
CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 11/13/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	0.0	2.0	2	2	3	2	3"	DRY	0.6	Bituminous Concrete
										Br. M-F Sand and C-F Gravel (Fill)
2	5.0	7.0	5	9	11	11	15"	WET		
									7.0	
										Br. F. Sand, Some Silt
									14.0	
										End of Boring - 14.0
										G.W.O. - 6.0
										WELL INSTALLED @ 14.0'
										10' SCREEN
										4.0' RISER
										FLUSH PROTECTOR

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL



CONSTRUCTION DIAGRAM FOR MONITOR WELL W3

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # W-4

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

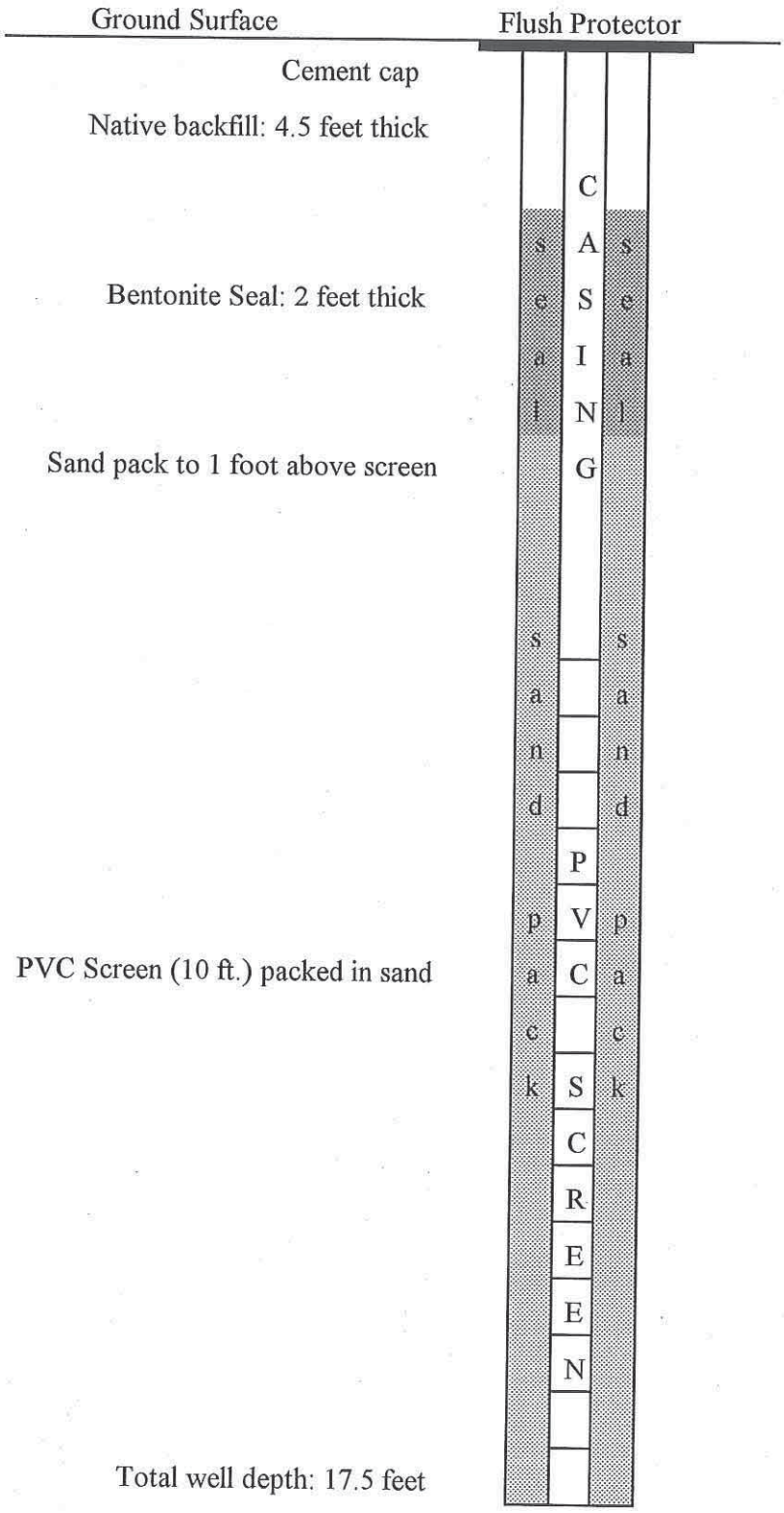
CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 11/13/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
									0.6	Topsoil
										Br. M-F Sand and C-F Gravel (Fill)
									7.0	
										Br. F. Sand, Some Silt
									17.5	
										End of Boring - 17.5
										G.W.O. - 9.0
										WELL INSTALLED @ 17.5'
										10' SCREEN
										7' RISER
										FLUSH PROTECTOR

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL



CONSTRUCTION DIAGRAM FOR MONITOR WELL W4

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # W-5

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 7/20/04
LINE & STA	OFFSET	METHOD 4 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
									0.6	Topsoil
										Br. M-F Sand and C-F Gravel (Fill)
									7.0	Br. F. Sand, Some Silt
									17.5	End of Boring - 17.5

G.W.O. - 9.0

WELL INSTALLED @ 17.5'

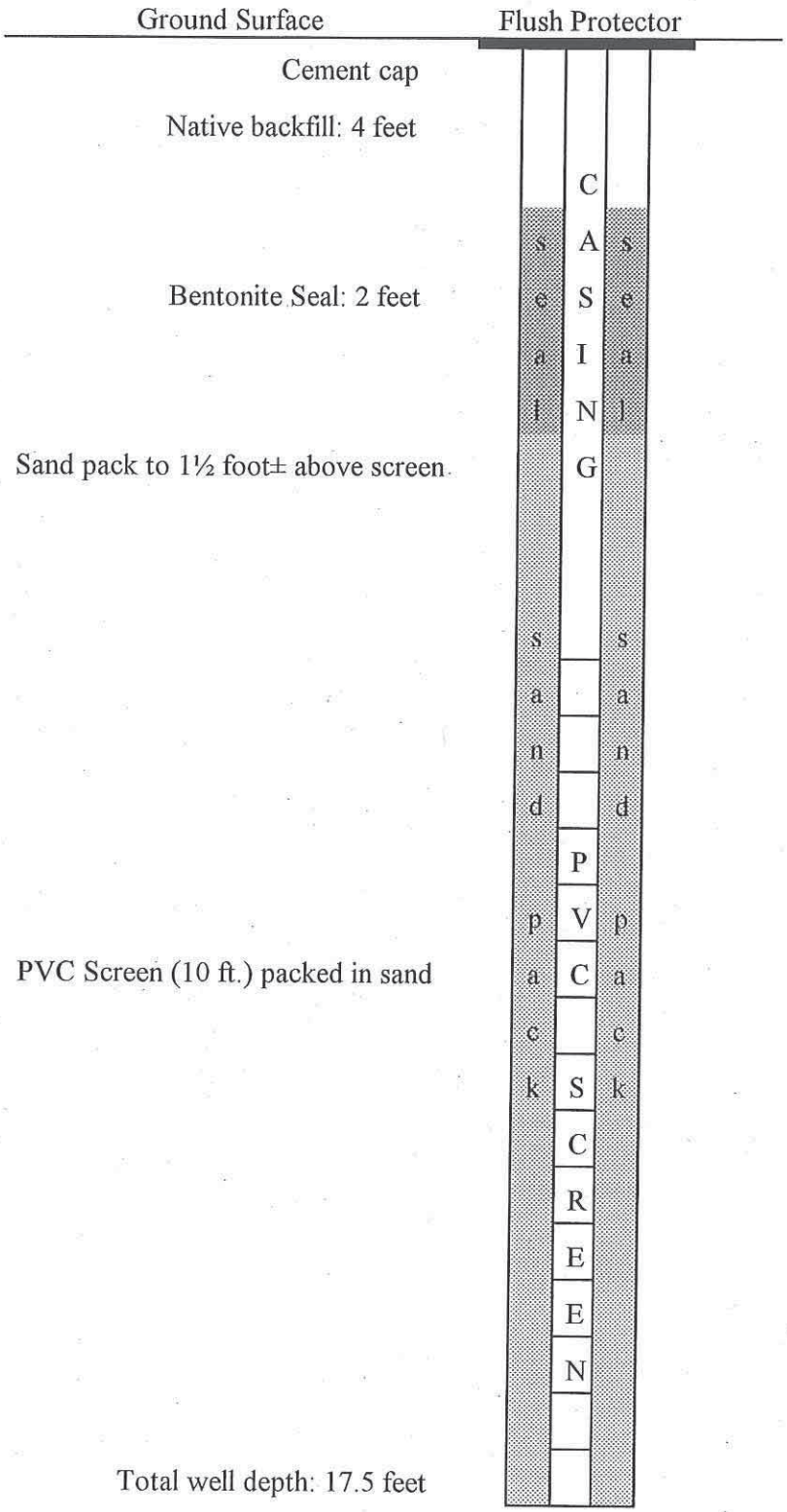
10' SCREEN

7' RISER

FLUSH PROTECTOR

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL



CONSTRUCTION DIAGRAM FOR MONITOR WELL W5

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # W-6

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

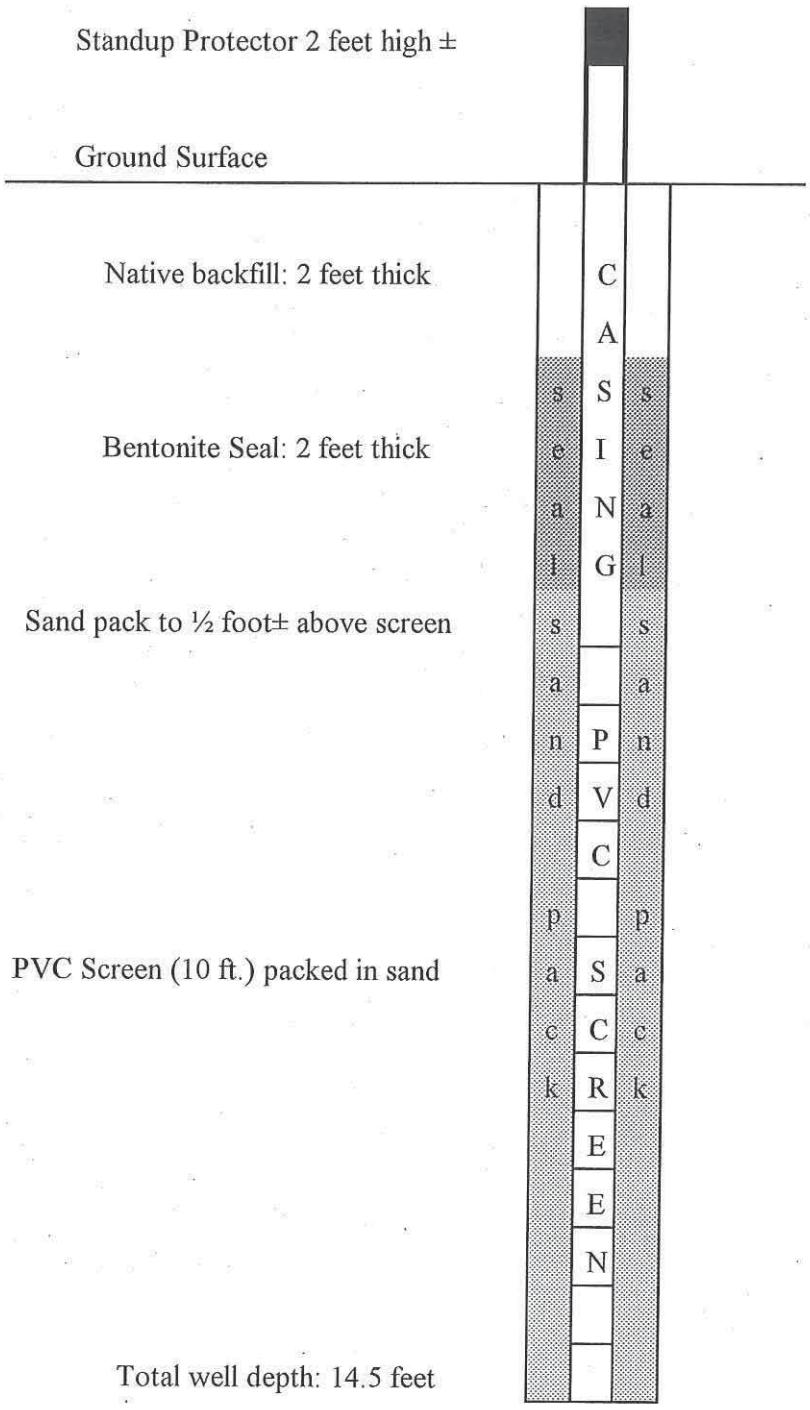
CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 7/20/04
LINE & STA	OFFSET	METHOD 4 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
									0.6	Topsoil
										Br. M-F Sand and Silt
									7.0	
										Br. M-F Sand, Tr. Silt
									10.0	
										Red Br. M-F Sand and C-F Gravel
										Tr. Silt (Till)
									14.5	
										End of Boring - 14.5
										G.W.O. - 13.0
										WELL INSTALLED @ 14.5'
										10' SCREEN
										6' RISER
										STICK-UP PROTECTOR

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL



CONSTRUCTION DIAGRAM FOR MONITOR WELL W6

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-1

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 10/8/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
									0.3	Topsoil
										Br. M-F Sand, Some Silt, Some C-F Gravel, Cobbles, (Fill)
1	6.0	8.0	4	6	5	5	12"	DRY		
2	8.0	10.0	5	5	6	6	12"	DRY	8.0	Br. F. Sand, Some Silt
									10.0	End of Boring - 10.0
										G.W.O. - None

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-2

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 10/8/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

	DEPTH		S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
1	0.0	2.0	4	7	2	5	8"	DRY	0.3	Topsoil
										Br. M-F Sand, Some Silt,
										Some C-F Gravel, Cobbles, (Fill)
2	5.0	7.0	6	11	8	8	9"	DRY		
									8.0	
										Br. F. Sand, Some Silt
3	10.0	12.0	5	7	6	6	12"	WET		
									12.0	
										End of Boring - 12.0
										G.W.O. - 10.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-3

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION			PROJECT NO			ROCK CORE DIA.			DRILLER J. Lloret		DATE 10/8/03
LINE & STA			OFFSET			METHOD 2 1/4" HSA			INSP N. Shanahan		PAGE 1 OF 1
DEPTH			S.P.T. SAMPLE					A		FIELD IDENTIFICATION OF SOILS	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH		
1	0.0	2.0	6	8	8	10	9"	DRY	0.3	Topsoil	
										Br. M-F Sand, Some Silt,	
										Some C-F Gravel, Cobbles, (Fill)	
2	5.0	7.0	6	8	7	7	9"	DRY			
									8.0		
										Br. F. Sand, Some Silt	
3	10.0	12.0	5	5	7	6	12"	WET			
									12.0		
										End of Boring - 12.0	
										G.W.O. - 10.0	

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-4

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 10/8/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
1	1.0	3.0	4	9	10	11	3"	DRY	0.3	Bituminous Concrete
										Br. M-F Sand, Some Silt,
										Some C-F Gravel, Cobbles, (Fill)
2	5.0	7.0	5	8	7	7	9"	DRY		
									8.0	
										Br. F. Sand, Some Silt
3	10.0	12.0	5	7	6	6	12"	WET		
									12.0	
										End of Boring - 12.0
										G.W.O. - 10.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-5

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION			PROJECT NO			ROCK CORE DIA.			DRILLER J. Lloret		DATE 10/8/03
LINE & STA			OFFSET			METHOD 2 1/4" HSA			INSP N. Shanahan		PAGE 1 OF 1
DEPTH			S.P.T. SAMPLE					A		FIELD IDENTIFICATION OF SOILS	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH		
1	1.0	3.0	5	11	18	9	2"	DRY	0.3	Bituminous Concrete	
										Br. M-F Sand, Some Silt,	
										Some C-F Gravel, Cobbles, (Fill)	
2	5.0	7.0	5	9	8	8	10"	DRY			
									8.0		
										Br. F. Sand, Some Silt	
3	10.0	12.0	3	6	6	8	12"	WET			
									12.0		
										End of Boring - 12.0	
										G.W.O. - 10.0	

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-6

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 10/8/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
									0.3	Bituminous Concrete
										M. Gravel, (Fill)
									5.0	
										Br. F. Sand, Some Silt
									10.0	
										End of Boring - 10.0
										G.W.O. - 8.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-7

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 10/8/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
									0.3	Bituminous Concrete
										M. Gravel (Fill)
									7.0	Br. F. Sand, Some Silt
									10.0	End of Boring - 10.0
										G.W.O. - 8.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-8

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 10/9/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE					A		
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
									0.3	Bituminous Concrete
										M. Gravel (Fill)
									7.0	
										Br. F. Sand, Some Silt
									10.0	
										End of Boring - 10.0
										G.W.O. - 8.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-9

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 10/9/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	0.0	2.0	4	7	6	5	8"	DRY	0.3	Topsoil
										Br. M-F Sand and C-F Gravel
										(Fill)
2	5.0	6.0	19	50	X	X	0"	DRY		
									7.0	
										Br. F. Sand, Some Silt
									10.0	
										Refusal - 10.0
										End of Boring - 10.0
										G.W.O. - None

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-10

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 10/9/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
									0.3	Topsoil
										Br. F. Sand, Some Silt
									5.0	
										Refusal - 5.0
										End of Boring - 5.0
										G.W.O. - None

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-11

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 10/9/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
									0.3	Topsoil
										Br. F. Sand, Some Silt
1	5.0	7.0	4	3	2	2	0"	DRY		
2	7.0	7.5	50	X	X	X	5"	DRY		
									7.5	Refusal - 7.5
										End of Boring - 7.5
										G.W.O. - None

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-12

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 10/9/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH
									0.3
									3.5

FIELD IDENTIFICATION OF SOILS

Topsoil

Br. F. Sand, Some Silt

Refusal - 3.5

End of Boring - 3.5

G.W.O. - None

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-13

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 10/9/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
									0.6	Concrete
										Br. F. Sand, Some Silt
										Some C-F Gravel
									5.0	
										End of Boring - 5.0
										G.W.O. - None

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-14

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 10/9/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE					A		FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
									0.6	Concrete
										Br. F. Sand, Some Silt
										Some C-F Gravel
									7.0	
										Br. F. Sand and Silt
									10.0	
										End of Boring - 10.0
										G.W.O. - Moist

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-15

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 10/9/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	A NOTES	DEPTH
									0.6
									7.0
									10.0

FIELD IDENTIFICATION OF SOILS

Concrete

Br. F. Sand, Some Silt

Some C-F Gravel

Br. F. Sand and Silt

End of Boring - 10.0

G.W.O. - 9.5

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-16

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 10/9/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
									0.6	Concrete
										Br. F. Sand, Some Silt
										Some C-F Gravel
									7.0	
										Br. F. Sand and Silt
									10.0	
										End of Boring - 10.0
										G.W.O. - 9.5

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-17

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 10/9/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
									0.6	Concrete
										Br. F. Sand, Some Silt
										Some C-F Gravel
									7.0	
										Br. F. Sand and Silt
									10.0	
										End of Boring - 10.0
										G.W.O. - 9.5

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-18

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 11/12/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
1	0.0	2.0	4	4	4	4	5"	DRY	0.3	Topsoil
										Br. F. Sand, Some Silt
2	5.0	5.5	50	X	X	X	X	DRY	5.5	
										Refusal - 5.5
										End of Boring - 5.5
										G.W.O. - None

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-19

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 11/12/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	0.0	2.0	6	6	5	7	8"	DRY	0.3	Topsoil
										Br. F. Sand, Some Silt
2	5.0	7.0	4	8	7	7	9"	MOIST		
3	7.0	9.0	5	9	7	50	8"	MOIST		
									9.0	Refusal - 9.0
										End of Boring - 9.0
										G.W.O. - Moist

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-20

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 11/12/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	0.0	2.0	2	2	2	2	3"	DRY	0.3	Topsoil
										Br. F. Sand, Some Silt
2	5.0	5.5	50	X	X	X	7"	MOIST	5.5	
										Refusal - 5.5
										End of Boring - 5.5
										G.W.O. - Moist

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-21

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 10/9/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
									0.3	Topsoil
										Br. F. Sand, Some Silt
									1.5	
										Refusal - 1.5
										End of Boring - 1.5
										G.W.O. - Moist

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-22

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 11/12/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
									0.6	Concrete
										Br. F. Sand, Some Silt
										Some C-F Gravel
									7.0	
										Br. F. Sand and Silt
									10.0	
										End of Boring - 10.0
										G.W.O. - 9.5

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-23

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 11/12/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
									0.6	Concrete
										Br. F. Sand, Some Silt
										Some C-F Gravel
									7.0	
										Br. F. Sand and Silt
									10.0	
										End of Boring - 10.0
										G.W.O. - 9.5

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-24

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 11/13/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

	DEPTH		S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
1	1.0	3.0	4	3	3	3	5"	DRY	0.6	Concrete
										Br. F. Sand, Some Silt
										Some C-F Gravel
2	5.0	7.0	12	14	11	17	13"	DRY		
									7.0	
										Br. F. Sand and Silt
3	10.0	12.0	3	6	5	5	7"	WET		
									12.0	
										End of Boring - 12.0
										G.W.O. - 9.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-25

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 11/13/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE					A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH
1	1.0	3.0	4	2	3	3	6"	DRY	0.6
2	5.0	7.0	15	14	17	22	15"	DRY	7.0
3	10.0	12.0	3	6	5	5	8"	WET	12.0

FIELD IDENTIFICATION OF SOILS

Concrete

Br. F. Sand, Some Silt

Some C-F Gravel

Br. F. Sand and Silt

End of Boring - 12.0

G.W.O. - 9.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-26

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 11/13/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	1.0	3.0	3	6	5	5	8"	DRY	0.6	Concrete
										Br. F. Sand, Some Silt
										Some C-F Gravel
2	5.0	7.0	15	14	16	21	14"	DRY		
									7.0	
										Br. F. Sand and Silt
3	10.0	12.0	5	7	4	4	10"	WET		
									12.0	
										End of Boring - 12.0
										G.W.O. - 9.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TG-27

PROJ Town Garage
1 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 11/13/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
1	1.0	3.0	4	6	5	3	7"	DRY	0.6	Concrete
										Br. F. Sand, Some Silt
										Some C-F Gravel
2	5.0	7.0	13	21	21	15	13"	DRY		
									7.0	
										Br. F. Sand and Silt
3	10.0	12.0	4	6	5	5	12"	WET		
									12.0	
										End of Boring - 12.0
										G.W.O. - 9.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TH-1

PROJ Town Hall
7 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 10/8/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	1.0	3.0	31	21	11	17	7"	DRY	0.3	Bituminous Concrete
										Br. M-F Sand, Some Silt,
										Some C-F Gravel, Cobbles, (Fill)
2	5.0	7.0	5	7	6	6	10"	DRY		
									6.0	
										Br. F. Sand, Some Silt
3	10.0	12.0	5	7	6	6	10"	WET		
4	12.0	14.0	4	7	11	9	0"	WET		
									14.0	
										End of Boring - 14.0
										G.W.O. - 12.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TH-2

PROJ Town Hall
7 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret / DATE 10/8/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan / PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
1	1.0	3.0	6	8	7	5	7"	DRY	0.3	Bituminous Concrete
										Br. M-F Sand, Some Silt,
										Some C-F Gravel, Cobbles, (Fill)
2	5.0	7.0	5	7	4	4	10"	DRY		
									6.0	
										Br. F. Sand, Some Silt
3	10.0	12.0	4	7	6	6	0"	WET		
4	12.0	14.0	4	7	6	6	13"	WET		
									13.5	
									14.0	Red Br. Silt
										End of Boring - 14.0
										G.W.O. - 12.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # TH-3

PROJ Town Hall
7 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 10/8/03
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	1.0	3.0	5	17	22	19	10"	DRY	0.3	Bituminous Concrete
										Br. M-F Sand, Some Silt,
										Some C-F Gravel, Cobbles, (Fill)
2	5.0	7.0	8	6	7	7	0"	DRY		
									6.0	
										Br. F. Sand, Some Silt
3	10.0	12.0	4	8	6	6	12"	WET		
									12.0	
										End of Boring - 12.0
										G.W.O. - 11.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # AS-1

PROJ Town Hall
7 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION | PROJECT NO | ROCK CORE DIA. | DRILLER J. Lloret | DATE 4/5/05

LINE & STA | OFFSET | METHOD 2 1/4" HSA | INSP N. Shanahan | PAGE 1 OF 1

	DEPTH		S.P.T. SAMPLE					A		
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
1	1.0	3.0	4	7	6	6	10"	DRY		Br. M-F Sand, Some Silt, Some C-F Gravel
2	3.0	5.0	9	11	13	12	12"	DRY	3.0	
3	5.0	7.0	6	9	7	8	13"	WET		Br. C-F Sand and C-F Gravel
									6.0	
									7.0	Lt. Br. M-F Sand
										End of Boring - 7.0
										G.W.O. - 6.5

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # AS-2

PROJ Town Hall
7 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 4/5/05
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE					A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH
1	1.0	3.0	8	12	13	12	12"	DRY	
2	3.0	5.0	12	13	21	14	8"	DRY	3.0
3	5.0	6.0	24	26	X	X	3"	MOIST	
									6.0

FIELD IDENTIFICATION OF SOILS

Br. M-F Sand, Some Silt,

Some C-F Gravel

Br. C-F Sand and C-F Gravel

End of Boring - 6.0

G.W.O. - None

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # AS-3

PROJ Town Hall
7 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 4/5/05
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
1	1.0	3.0	13	12	16	10	9"	DRY		Br. M-F Sand, Some Silt, Some C-F Gravel
2	3.0	5.0	12	14	17	11	12"	DRY	3.0	
3	5.0	7.0	12	15	21	12	13"	MOIST		Br. C-F Sand and C-F Gravel
									6.5	
									7.0	Lt. Br. M-F Sand
										End of Boring - 7.0
										G.W.O. - 7.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # AS-4

PROJ Town Hall
7 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 4/5/05
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
1	1.0	3.0	13	14	11	22	8"	DRY		Br. M-F Sand, Some Silt, Some C-F Gravel
2	3.0	5.0	13	15	22	21	12"	DRY	3.0	Br. C-F Sand and C-F Gravel
3	5.0	7.0	22	14	31	14	13"	MOIST	6.5	
									7.0	Lt. Br. M-F Sand
										End of Boring - 7.0
										G.W.O. - 7.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # AS-5

PROJ Town Hall
7 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 4/5/05
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

	DEPTH		S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	1.0	3.0	12	13	14	16	12"	DRY		Br. M-F Sand, Some Silt, Some C-F Gravel
2	3.0	5.0	23	21	15	23	14"	DRY	3.0	Br. C-F Sand and C-F Gravel
3	5.0	7.0	24	31	15	13	12"	MOIST	6.5	
									7.0	Lt. Br. M-F Sand
										End of Boring - 7.0
										G.W.O. - 7.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # AS-6

PROJ Town Hall
7 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 4/5/05
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	1.0	3.0	13	17	11	19	10"	DRY		Br. M-F Sand, Some Silt, Some C-F Gravel
2	3.0	5.0	24	33	25	32	12"	DRY	3.0	Br. C-F Sand and C-F Gravel
3	5.0	7.0	25	34	16	18	10"	MOIST	6.0	
									7.0	Lt. Br. M-F Sand
										End of Boring - 7.0
										G.W.O. - 7.0

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # AS-7

PROJ Town Hall
7 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 4/5/05
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH
1	1.0	3.0	21	24	32	29	13"	DRY	0.2
2	3.0	5.0	32	45	50	48	14"	DRY	2.5
3	5.0	7.0	21	16	14	13	10"	MOIST	6.0
									7.0

FIELD IDENTIFICATION OF SOILS

Bituminous Concrete

Br. M-F Sand, Some Silt,
Some C-F Gravel

Br. C-F Sand and C-F Gravel

Lt. Br. M-F Sand

End of Boring - 7.0

G.W.O. - None

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # AS-8

PROJ Town Hall
7 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 4/5/05
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE						A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	FIELD IDENTIFICATION OF SOILS
1	1.0	3.0	3	4	2	3	5"	DRY		Br. M-F Sand, Some Silt, Some C-F Gravel
2	3.0	5.0	14	24	31	29	14"	DRY	3.0	Br. C-F Sand and C-F Gravel
3	5.0	7.0	9	13	9	10	9"	MOIST	6.0	
									7.0	Lt. Br. M-F Sand
										End of Boring - 7.0
										G.W.O. - None

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

ASSOCIATED BORINGS CO INC
119 Margaret Circle
Naugatuck, Ct. 06770
Tel (203) 729-5435
Fax (203) 729-5116

TEST BORING REPORT

BORING # AS-9

PROJ Town Hall
7 Main Street

TOWN East Haddam, Connecticut

CLIENT SHANAHAN CONSULTING

ELEVATION	PROJECT NO	ROCK CORE DIA.	DRILLER J. Lloret	DATE 4/5/05
LINE & STA	OFFSET	METHOD 2 1/4" HSA	INSP N. Shanahan	PAGE 1 OF 1

DEPTH			S.P.T. SAMPLE					A	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH
1	1.0	3.0	3	4	3	5	12"	DRY	0.2
2	3.0	5.0	3	4	3	6	4"	DRY	
3	5.0	7.0	4	3	5	4	10"	MOIST	5.0
									7.0

FIELD IDENTIFICATION OF SOILS

Bituminous Concrete

Br. M-F Sand and Silt

Lt. Br. M-F Sand

End of Boring - 7.0

G.W.O. - None

COL A - BLOWS ON CASING
DRILL TIME PER FOOT
HAMMER - SPT 140# 30"FALL
SAMPLER - 1 3/8 ID SS
W - WEIGHT OF HAMMER

TRACE - 1-10%
LITTLE - 10-20% M-F MEDIUM TO FINE
SOME - 20-35% C-F COARSE TO FINE
AND - 35-50% GWO-GROUNDWATER LEVEL

Appendix G

Soil Test Screening Data

SHANAHAN CONSULTING
SOIL SAMPLE TEST SCREENING DATA

SITE NAME 1 & 7 Main Street, East Haddam JOB NUMBER 03-42

INSTRUMENT USED HNU 11.7 eV ANALYST Ned Shanahan

DATE OF SAMPLING 10-8-03 DATE OF TEST SCREENING 10-8-03

SAMPLE NO.	DEPTH (FT.)	SAMPLE RESPONSE ABOVE BACKGROUND (PPM)	COMMENTS
TH1S1	1-3	0.1	
TH1S2	5-7	0.1	Sent to lab.
TH1S3	10-12	0.1	Wet sample. Sent to lab.
TH1S4	12-14	---	No recovery in spoon.
TH2S1	1-3	0.1	
TH2S2	5-7	0.1	Sent to lab.
TH2S3	10-12	---	No recovery in spoon.
TH2S4	12-14	0.1	Wet sample.
TH3S1	1-3	0.1	
TH3S2	5-7	---	No recovery in spoon.
TH3S3	10-12	0.1	Wet sample. Sent to lab.
SS1	Surface	0.0	Blue residue. Collected by hand. Sent to lab.

SHANAHAN CONSULTING
SOIL SAMPLE TEST SCREENING DATA

SITE NAME 1 & 7 Main Street JOB NUMBER 03-42

INSTRUMENT USED HNU 11.7 eV ANALYST Ned Shanahan

DATE OF SAMPLING 10-8-03 DATE OF TEST SCREENING 10-8-03

SAMPLE NO.	DEPTH (FT.)	SAMPLE RESPONSE ABOVE BACKGROUND (PPM)	COMMENTS
TG1S1	6-8	0.0	
TG1S2	8-10	0.0	Sent to lab.
TG2S1	0-2	0.0	Sent to lab.
TG2S2	5-7	0.0	Sent to lab.
TG2S3	10-12	0.1	Wet sample. Sent to lab.
TG3S1	0-2	0.0	Sent to lab.
TG3S2	5-7	0.0	Sent to lab.
TG3S3	10-12	0.0	Wet sample. Sent to lab.
TG4S1	1-3	---	No sample recovery in spoon.
TG4S2	5-7	0.0	
TG4S3	10-12	0.0	Wet sample. Sent to lab.
TG5S1	1-3	0.1	
TG5S2	5-7	0.0	Low sample recovery.
TG5S3	10-12	0.0	Wet sample. Sent to lab.
TG6S1	6±	0.0	Moist sample from auger spoils. Sent to lab.
TG6S2	10±	0.1	Wet sample. Collected off auger. Sent to lab.
TG7S1	8±	0.6	Collected from auger spoils. Sent to lab.
TG7S2	10±	0.0	Wet sample. Collected off auger. Sent to lab.

SHANAHAN CONSULTING
SOIL SAMPLE TEST SCREENING DATA

SITE NAME 1 & 7 Main Street JOB NUMBER 03-42

INSTRUMENT USED HNU 11.7 eV ANALYST Ned Shanahan

DATE OF SAMPLING 10-9-03 DATE OF TEST SCREENING 10-9-03

SAMPLE NO.	DEPTH (FT.)	SAMPLE RESPONSE ABOVE BACKGROUND (PPM)	COMMENTS
TG8S1	8 ±	4.8	From auger spoils. Petroleum odor. Sent to lab.
TG8S2	10 ±	0.4	Collected off auger. Wet sample. Sent to lab.
TG9S1	0-2	0.0	One inch layer of ash in sample.
TG9S2	5 ±	0.0	Collected off auger. Sent to lab.
TG9S3	10 ±	0.0	Collected off auger. Auger refusal at 10 feet.
TG10S1	5 ±	0.0	Collected off auger. Auger refusal at 5 feet. Moist sample. Sent to lab.
TG11S1	5-7	---	No recovery in spoon.
TG11S2	7-7½	0.0	Spoon refusal at 7½ feet. Sent to lab.
TG12S1	3½ ±	0.0	Off auger. Auger refusal at 3½ feet. Sent to lab.
TG13S1	½-1	0.0	Collected by hand off side of hole. Sent to lab.
TG13S2	5 ±	0.0	Collected off auger.
TG14S1	½-1	0.0	Collected by hand off side of hole. Sent to lab.
TG14S2	5 ±	0.0	Collected off auger.
TG14S3	10 ±	0.0	Moist sample. Collected off auger. Sent to lab.
TG15S1	½-1	0.1	Collected by hand off side of hole. Sent to lab.
TG15S2	5 ±	0.0	Collected off auger. Sent to lab.
TG15S3	10 ±	0.0	Wet sample. Collected off auger. Sent to lab.
TG16S1	½-1	0.0	Collected by hand off side of hole. Sent to lab.
TG16S2	5 ±	0.0	Collected off auger.
TG16S3	10' ±	0.0	Wet sample. Collected off auger. Sent to lab.

SHANAHAN CONSULTING
SOIL SAMPLE TEST SCREENING DATA

SITE NAME 1 & 7 Main Street JOB NUMBER 03-42

INSTRUMENT USED HNU 11.7 eV ANALYST Ned Shanahan

DATE OF SAMPLING 10-9-03 DATE OF TEST SCREENING 10-9-03

SAMPLE NO.	DEPTH (FT.)	SAMPLE RESPONSE ABOVE BACKGROUND (PPM)	COMMENTS
TG17S1	½-1	0.1	Collected by hand off side of hole. Sent to lab.
TG17S2	5 ±	0.0	Collected off auger.
TG17S3	10 ±	0.0	Wet sample. Collected off auger. Sent to lab.

SHANAHAN CONSULTING
SOIL SAMPLE TEST SCREENING DATA

SITE NAME 1 & 7 Main Street

JOB NUMBER 03-42

INSTRUMENT USED HNU 11.7 eV

ANALYST Ned Shanahan

DATE OF SAMPLING 11-12-03

DATE OF TEST SCREENING 11-12-03

SAMPLE NO.	DEPTH (FT.)	SAMPLE RESPONSE ABOVE BACKGROUND (PPM)	COMMENTS
TG18S1	0-2	0.2	
TG18S2	5-5½	0.3	Spoon refusal at 5½ feet. Sent to lab.
TG19S1	0-2	0.3	
TG19S2	5-7	0.4	Moist sample.
TG19S3	7-9	0.5	Moist sample. Spoon refusal at 9 feet. Sent to lab.
TG20S1	0-2	0.2	
TG20S2	5-5½	0.5	Spoon refusal at 5½ feet. Moist sample. Sent to lab.
TG21S1	0-1½	0.4	Collected off auger. Auger refusal at 1½ feet. Moist sample. Sent to lab.
TG22S1	½-1	0.4	Collected by hand off side of hole. Sent to lab.
TG22S2	5 ±	0.2	Collected off auger.
TG22S3	10 ±	0.4	Collected off auger. Moist sample. Sent to lab.
TG23S1	½-1	0.4	Collected by hand off side of hole. Sent to lab.
TG23S2	5 ±	0.2	Collected off auger.
TG23S3	10 ±	0.4	Collected off auger. Wet sample. Sent to lab.
W1S1	1-3	10.2	Sent to lab.
W1S2	5-7	0.5	Sent to lab.
W1S3	10-12	0.3	Wet sample.

SHANAHAN CONSULTING
SOIL SAMPLE TEST SCREENING DATA

SITE NAME 1 & 7 Main Street JOB NUMBER 03-42

INSTRUMENT USED HNU 11.7 eV ANALYST Ned Shanahan

DATE OF SAMPLING 11-13-03 DATE OF TEST SCREENING 11-13-03

SAMPLE NO.	DEPTH (FT.)	SAMPLE RESPONSE ABOVE BACKGROUND (PPM)	COMMENTS
W3S1	0-2	0.0	Low sample recovery in spoon.
W3S2	5-7	0.0	Wet sample.
TG24S1	1-3	0.2	Sent to lab.
TG24S2	5-7	0.2	
TG24S3	10-12	0.2	Wet sample.
TG25S1	1-3	0.1	
TG25S2	5-7	0.1	
TG25S3	10-12	0.1	Wet sample.
TG26S1	1-3	0.1	
TG26S2	5-7	0.0	
TG26S3	10-12	0.1	Wet sample.
TG27S1	1-3	0.2	Sent to lab.
TG27S2	5-7	0.1	
TG27S3	10-12	0.1	Wet sample.

Appendix H

Results of Laboratory Tests of Soil Samples

October 21, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 08, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003169
PO/Job No. : 03-42
Invoice No. : 126712
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ▪ SOIL ▪ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ▪ 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE ▪ MERIDEN, CT ▪ 06451

Date Samples Received: 10/08/03

Client Name : **Shanahan Consulting**	CTL Lab No. : 1003169
Report Date : 10/20/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type : **S**
CTL Sample No. **17793**
Field ID : **SS-1**

Parameters	MDL				
Silver-mg/kg	0.2	BDL			
Arsenic-mg/kg	1.0	7.6			
Cadmium-mg/kg	0.5	1.4			
Chromium, Total-mg/kg	0.5	191			
Copper-mg/kg	0.5	562			
Mercury-mg/kg	0.02	57.0			
Lead-mg/kg	0.5	854			
Nickel-mg/kg	0.5	10.6			
Zinc-mg/kg	0.5	505			

Mass Analysis EPA 3050B

Matrix Type :	**S**	**S**	**S**	
CTL Sample No.	**17789**	**17790**	**17791**	
Field ID :	**TH1S2**	**TH1S3**	**TH2S2**	

Parameters	MDL				
Lead-mg/kg	0.5	28.4	4.8	5.2	

Matrix Type : **S**
CTL Sample No. **17792**
Field ID : **TH3S3**

Parameters	MDL				
CT ETPH-mg/kg	25	BDL			

MDL= Minimum Detectable Level **BDL**= Below Detection Level

Matrix Types: **W** = Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 03-42

PROJECT NAME EAST HADDAM

COLLECTED BY NED SHANAHAN

LAB# 1003169

REMARKS:

See Helen for billing rates - quote requested.

* metals - Ag, As, Cd, Cr, Cu, Hg, Pb, Ni, Zn

x additional tests requested 10-21-03. MWS

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED: Method 8021B- Aromatics + MTBE	Lead - mass analysis	ETPH	Metals * - mass analysis	Hex. Chromium - mass analysis	SPLP - As, Cd, Cr, Cu, Hg, Pb, Ni, Zn	TCLP - 8 RCRA metals	SAMPLE REMARKS
TH1S2	10-8-03		Soil	Jar/Vial	1/2	See below	✓	✓						
TH1S3	↓		↓	↓	↓	↓	✓	✓						
TH2S2				↓	↓	↓	✓	✓						
TH3S3				Jar	1	Chilled			✓					
SS1	↓		↓	↓	↓	↓				✓	x	x	x	

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY

SAMPLE PRESERVATION REMARKS:
All containers chilled. Soil samples for VOC tests preserved via Method 5035.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	10-8-03	438	Susan Cote

October 21, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 08, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003170
PO/Job No. : 03-42
Invoice No. : 126711
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 10/08/03

Client Name : **Shanahan Consulting**	CTL Lab No. : 1003170
Report Date : 10/20/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type: S

Field ID	CTL #	MDL	Arsenic - mg/kg			
TG1S2	17794	1.0	2.6			
TG2S1	17795	1.0	4.3			
TG2S2	17796	1.0	8.6			
TG2S3	17797	1.0	4.2			
TG3S1	17798	1.0	1.8			
TG3S2	17799	1.0	4.9			
TG3S3	17800	1.0	5.3			

Matrix Type: S

Field ID	CTL #	MDL	Lead - mg/kg			
TG1S2	17794	0.5	4.1			
TG5S3	17802	0.5	6.9			
TG6S1	17803	0.5	58.0			
TG6S2	17804	0.5	14.6			
TG7S1	17805	0.5	45.7			
TG7S2	17806	0.5	7.2			

Matrix Type :	**S**	**S**	**S**	
CTL Sample No.:	**17794**	**17801**	**17802**	
Field ID :	**TG1S2**	**TG4S3**	**TG5S3**	

Parameters	MDL				
CT ETPH-mg/kg	25	BDL	BDL	BDL	

MDL= Minimum Detectable Level **BDL**= Below Detection Level

Matrix Types: W = Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consultting**	Date Extracted: 10/08/03
CTL Lab No.: 1003170	Date Analyzed: 10/11-10/17/03
Job/PO No. : 03-42	Analyst: YK
Report Date : 10/20/03	

EPA METHOD 8021B / 5035 Date Samples Rec'd: 10/08/03

Matrix Type:	**S**	**S**	**S**	**S**
CTL Sample #:	**17794**	**17802**	**17803**	**17804**
Field ID :	**TG1S2**	**TG5S3**	**TG6S1**	**TG6S2**

Results of Analysis

Parameters	**MDL**				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
p/m-Xylene	25	BDL	BDL	BDL	BDL
o-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL
MTBE	50	BDL	BDL	BDL	BDL

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W**= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consultting**	Date Extracted: 10/08/03
CTL Lab No.: 1003170	Date Analyzed: 10/11-10/17/03
Job/PO No. : 03-42	Analyst: YK
Report Date : 10/20/03	

EPA METHOD 8021B / 5035

Date Samples Rec'd: 10/08/03

Matrix Type:	**S**	**S**
CTL Sample #:	**17805**	**17806**
Field ID :	**TG7S1**	**TG7S2**

Results of Analysis

Parameters	**MDL**				
Benzene	20	BDL	BDL		
Toluene	25	BDL	BDL		
Chlorobenzene	25	BDL	BDL		
Ethyl Benzene	25	BDL	BDL		
p/m-Xylene	25	BDL	BDL		
o-Xylene	25	BDL	BDL		
1,4-Dichlorobenzene	25	BDL	BDL		
1,3-Dichlorobenzene	25	BDL	BDL		
1,2-Dichlorobenzene	25	BDL	BDL		
MTBE	50	BDL	BDL		

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

October 30, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 21, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003170
PO/Job No. : 03-42
Invoice No. : 126887
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 10/08/03
Date Reactivated: 10/21/03

Client Name : **Shanahan Consulting**	CTL Lab No. : 1003170
Report Date : 10/29/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type: S

Lead-mg/L

Field ID	CTL #	MDL				
TG1S2	17794	0.005	BDL			
TG5S3	17802	0.005	BDL			
TG6S1	17803	0.005	0.009			
TG6S2	17804	0.005	BDL			
TG7S1	17803	0.005	0.008			
TG7S2	17806	0.005	BDL			

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W**= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

LAB# 1003170

PROJECT NUMBER 03-42

PROJECT NAME EAST HADDAM

COLLECTED BY NED SHANAHAN

REMARKS:

See Helen for billing rates - quote requested.

* metals - Ag, As, Cd, Cr, Cu, Hg, Pb, Ni, Zn

x - additional tests 10-21-03 MS

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED: Method 8021B- Aromatics + MTBE	EtTPH	Arsenic-mass analysis	Lead-mass analysis	SPLP Lead				SAMPLE REMARKS
TG1S2	10-8-03		Soil	Jar/Vials	1/2	See below	✓	✓	✓	✓	x				
TG2S1				Jar	1	Chilled			✓						
TG2S2									✓						
TG2S3									✓						
TG3S1									✓						
TG3S2									✓						
TG3S3									✓						
TG4S3				Jar	1	Chilled		✓							
TG5S3				Jar/Vial	1/2	See below	✓	✓		✓	x				
TG6S1							✓			✓	x				
TG6S2							✓			✓	x				
TG7S1							✓			✓	x				
TG7S2							✓			✓	x				

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY

SAMPLE PRESERVATION REMARKS:
All containers chilled. Soil samples for VOC tests preserved via Method 5035.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	10-8-03	438	

October 28, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 09, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003190
PO/Job No. : 03-42
Invoice No. : 126821
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 10/09/03

Client Name : **Shanahan Consulting**	CTL Lab No. : 1003190
Report Date : 10/24/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type :		**S**	**S**	**S**
CTL Sample No.:		**17879**	**17880**	**17881**
Field ID :		**TG8S1**	**TG8S2**	**TG9S2**
Parameters	**MDL**			
Lead-mg/kg	0.5	14.3	5.4	12.9

Mass Analysis EPA 3050B

Matrix Type :		**S**	**S**
CTL Sample No.:		**17885**	**17886**
Field ID :		**TG13S1**	**TG14S1**
Parameters	**MDL**		
Silver-mg/kg	0.2	BDL	BDL
Arsenic-mg/kg	1.0	3.0	9.1
Cadmium-mg/kg	0.5	BDL	BDL
Chromium, Total-mg/kg	0.5	19.1	36.3
Copper-mg/kg	0.5	12.2	20.4
Mercury-mg/kg	0.02	0.03	0.04
Lead-mg/kg	0.5	91.1	52.2
Nickel-mg/kg	0.5	14.7	25.4
Zinc-mg/kg	0.5	71.3	40.9

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Date Samples Received : 10/09/03

Client Name : **Shanahan Consulting**	Date Extracted: 10/22/03
CTL Lab No.: 1003190	Date Analyzed: 10/22/03
Job/PO No. : 03-42	Analyst: MP
Report. Date: 10/24/03	

RESULTS OF ANALYSIS

Matrix Type: S

Field ID	CTL #	MDL	CT ETPH - mg/kg			
TG10S1	17882	25	BDL			
TG11S2	17883	25	BDL			
TG12S1	17884	25	BDL			
TG13S1	17885	25	BDL			
TG14S1	17886	25	59			
TG14S3	17887	25	BDL			
TG15S1	17888	25	BDL			
TG15S2	17889	25	BDL			
TG15S3	17890	25	BDL			
TG16S1	17891	25	BDL			
TG16S3	17892	25	BDL			
TG17S1	17893	25	BDL			
TG17S3	17894	25	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 10/09/03
CTL Lab No.: 1003190	Date Analyzed: 10/19/03
Job/PO No. : 03-42	Analyst: YK
Report Date : 10/24/03	

EPA METHOD 5035 / 8021B

Date Samples Rec'd: 10/09/03

Matrix Type:	**S**	**S**	**S**
CTL Sample #:	**17879**	**17880**	**17881**
Field ID :	**TG8S1**	**TG8S2**	**TG9S2**

Results of Analysis

Parameters	**MDL**				
Benzene	20	BDL	BDL	BDL	
Toluene	25	BDL	BDL	BDL	
Chlorobenzene	25	BDL	BDL	BDL	
Ethyl Benzene	25	BDL	BDL	BDL	
p/m-Xylene	25	BDL	BDL	BDL	
o-Xylene	25	BDL	BDL	BDL	
1,4-Dichlorobenzene	25	BDL	BDL	BDL	
1,3-Dichlorobenzene	25	BDL	BDL	BDL	
1,2-Dichlorobenzene	25	BDL	BDL	BDL	
MTBE	50	BDL	BDL	BDL	

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 10/09/03
CTL Lab No.: 1003190	Date Analyzed: 10/19-10/23/03
Job/PO No. : 03-42	Analyst: YK
Report Date : 10/24/03	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 10/09/03

Matrix Type	**S**	**S**	**S**	**S**
CTL Sample #:	**17883**	**17888**	**17889**	**17890**
Field ID :	**TG11S2**	**TG15S1**	**TG15S2**	**TG15S3**

Results of Analysis

Parameters	**MDL**				
Dichlorodifluoromethane	10	BDL	BDL	BDL	BDL
Chloromethane	10	BDL	BDL	BDL	BDL
Vinyl chloride	10	BDL	BDL	BDL	BDL
Chloroethane	10	BDL	BDL	BDL	BDL
Bromomethane	10	BDL	BDL	BDL	BDL
Trichlorofluoromethane	10	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	10	BDL	BDL	BDL	BDL
Methylene chloride	10	BDL	BDL	BDL	BDL
t-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
1,1-Dichloroethane	10	BDL	BDL	BDL	BDL
2,2-Dichloropropane	10	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
Chloroform	10	BDL	BDL	BDL	BDL
Bromochloromethane	10	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	10	BDL	BDL	BDL	BDL
1,1-Dichloropropylene	10	BDL	BDL	BDL	BDL
Carbon tetrachloride	10	BDL	BDL	BDL	BDL
Benzene	10	BDL	BDL	BDL	BDL
1,2-Dichloroethane	10	BDL	BDL	BDL	BDL
Trichloroethylene	10	BDL	BDL	BDL	BDL
1,2-Dichloropropane	10	BDL	BDL	BDL	BDL
Bromodichloromethane	10	BDL	BDL	BDL	BDL
Dibromomethane	10	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
Toluene	10	BDL	BDL	BDL	BDL
t-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	10	BDL	BDL	BDL	BDL
Tetrachloroethylene	10	BDL	BDL	BDL	BDL
1,3-Dichloropropane	10	BDL	BDL	BDL	BDL
Dibromochloromethane	10	BDL	BDL	BDL	BDL
1,2-Dibromoethane (EDB)	10	BDL	BDL	BDL	BDL
Chlorobenzene	10	BDL	BDL	BDL	BDL
Ethylbenzene	10	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
p/m-Xylene	10	BDL	BDL	BDL	BDL
o-Xylene	10	BDL	BDL	BDL	BDL

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 10/09/03
CTL Lab No.: 1003190	Date Analyzed: 10/19-10/23/03
Job/PO No. : 03-42	Analyst: YK
Report Date : 10/24/03	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 10/09/03

Matrix Type	**S**	**S**	**S**	**S**
CTL Sample #:	**17883**	**17888**	**17889**	**17890**
Field ID :	**TG11S2**	**TG15S1**	**TG15S2**	**TG15S3**

Results of Analysis

Parameters	**MDL**				
Styrene	10	BDL	BDL	BDL	BDL
Bromoform	10	BDL	BDL	BDL	BDL
Isopropylbenzene	10	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
Bromobenzene	10	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	10	BDL	BDL	BDL	BDL
n-Propylbenzene	10	BDL	BDL	BDL	BDL
2-Chlorotoluene	10	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	10	BDL	BDL	BDL	BDL
4-Chlorotoluene	10	BDL	BDL	BDL	BDL
tert-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2,4-Trimethylbenzene	10	BDL	BDL	BDL	BDL
sec-Butylbenzene	10	BDL	BDL	BDL	BDL
p-Isopropyltoluene	10	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	10	BDL	BDL	BDL	BDL
n-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	10	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Hexachlorobutadiene	50	BDL	BDL	BDL	BDL
Naphthalene	50	BDL	BDL	BDL	BDL
1,2,3-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Methyl ethyl ketone	50	BDL	BDL	BDL	BDL
Methyl butyl ketone	50	BDL	BDL	BDL	BDL
Methyl isobutyl ketone	50	BDL	BDL	BDL	BDL
MTBE	10	BDL	BDL	BDL	BDL

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 10/09/03
CTL Lab No.: 1003190	Date Analyzed: 10/19-10/23/03
Job/PO No. : 03-42	Analyst: YK
Report Date : 10/24/03	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 10/09/03

Matrix Type **S**
CTL Sample #: **17893**
Field ID : **TG17S1**

Results of Analysis

Parameters	**MDL**				
Dichlorodifluoromethane	10	BDL			
Chloromethane	10	BDL			
Vinyl chloride	10	BDL			
Chloroethane	10	BDL			
Bromomethane	10	BDL			
Trichlorofluoromethane	10	BDL			
1,1-Dichloroethylene	10	BDL			
Methylene chloride	10	BDL			
t-1,2-Dichloroethylene	10	BDL			
1,1-Dichloroethane	10	BDL			
2,2-Dichloropropane	10	BDL			
cis-1,2-Dichloroethylene	10	BDL			
Chloroform	10	BDL			
Bromochloromethane	10	BDL			
1,1,1-Trichloroethane	10	BDL			
1,1-Dichloropropylene	10	BDL			
Carbon tetrachloride	10	BDL			
Benzene	10	BDL			
1,2-Dichloroethane	10	BDL			
Trichloroethylene	10	BDL			
1,2-Dichloropropane	10	BDL			
Bromodichloromethane	10	BDL			
Dibromomethane	10	BDL			
cis-1,3-Dichloropropylene	10	BDL			
Toluene	10	BDL			
t-1,3-Dichloropropylene	10	BDL			
1,1,2-Trichloroethane	10	BDL			
Tetrachloroethylene	10	BDL			
1,3-Dichloropropane	10	BDL			
Dibromochloromethane	10	BDL			
1,2-Dibromoethane (EDB)	10	BDL			
Chlorobenzene	10	BDL			
Ethylbenzene	10	BDL			
1,1,1,2-Tetrachloroethane	10	BDL			
p/m-Xylene	10	BDL			
o-Xylene	10	BDL			

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 10/09/03
CTL Lab No.: 1003190	Date Analyzed: 10/19-10/23/03
Job/PO No. : 03-42	Analyst: YK
Report Date : 10/24/03	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 10/09/03

Matrix Type **S**
CTL Sample #: **17893**
Field ID : **TG17S1**

Results of Analysis

Parameters	MDL				
Styrene	10	BDL			
Bromoform	10	BDL			
Isopropylbenzene	10	BDL			
1,1,2,2-Tetrachloroethane	10	BDL			
Bromobenzene	10	BDL			
1,2,3-Trichloropropane	10	BDL			
n-Propylbenzene	10	BDL			
2-Chlorotoluene	10	BDL			
1,3,5-Trimethylbenzene	10	BDL			
4-Chlorotoluene	10	BDL			
tert-Butylbenzene	10	BDL			
1,2,4-Trimethylbenzene	10	BDL			
sec-Butylbenzene	10	BDL			
p-Isopropyltoluene	10	BDL			
1,3-Dichlorobenzene	10	BDL			
1,4-Dichlorobenzene	10	BDL			
n-Butylbenzene	10	BDL			
1,2-Dichlorobenzene	10	BDL			
1,2-Dibromo-3-chloropropane	10	BDL			
1,2,4-Trichlorobenzene	10	BDL			
Hexachlorobutadiene	50	BDL			
Naphthalene	50	BDL			
1,2,3-Trichlorobenzene	10	BDL			
Methyl ethyl ketone	50	BDL			
Methyl butyl ketone	50	BDL			
Methyl isobutyl ketone	50	BDL			
MTBE	10	BDL			

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

November 03, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 24, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003190
PO/Job No. : 03-42
Invoice No. : 126964
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 10/09/03
Date Samples Reactivated: 10/24/03

Client Name : **Shanahan Consulting**	CTL Lab No. : 1003190
Report Date : 10/31/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type: S

Field ID	CTL #	Lead -mg/L	Chromium, Total-mg/L	Nickel -mg/L	
TG8S1	17879	BDL	----	----	
TG8S2	17880	BDL	----	----	
TG9S2	17881	BDL	----	----	
TG13S1	17885	BDL	BDL	----	
TG14S1	17886	BDL	BDL	BDL	

Note: Minimum Detectable Limits (MDL) are as follows; Lead=0.005-mg/L, Total Chromium and Nickel=0.05-mg/L.

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 03-42

PROJECT NAME EAST HADDAM

COLLECTED BY NED SHANAHAN

LAB# 1003190

REMARKS:

See Helen for billing rates - quote requested.

* metals - Ag, As, Cd, Cr, Cu, Hg, Pb, Ni, Zn

x - added 10-24-03. MS

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED: Method 8021B- Aromatics + VOCs	Method 8260+ MTBE	ETPH	Metals* - mass analysis	Lead - mass analysis	SPLP Pb	SPLP Cr	SPLP Ni	SAMPLE REMARKS
TGBS1	10-9-03		Soil	Jar/Vial	1/2	See below	✓				✓	x			
TGBS2							✓				✓	x			
TG9S2							✓				✓	x			
TG10S1				Jar	1	Chilled			✓						
TG11S2				Jar/Vial	1/2	See below		✓	✓						
TG12S1				Jar	1	Chilled			✓						
TG13S1									✓	✓		x	x		
TG14S1									✓	✓		x	x	x	
TG14S3									✓						
TG15S1				Jar/Vial	1/2	See below		✓	✓						
TG15S2								✓	✓						
TG15S3								✓	✓						
TG16S1				Jar	1	Chilled			✓						
TG16S3									✓						
TG17S1				Jar/Vial	1/2	See below		✓	✓						
TG17S3	↓		↓	Jar	1	Chilled			✓						

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY _____

SAMPLE PRESERVATION REMARKS:
All containers chilled. Soil samples for VOC tests preserved via Method 5035.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	10/9/03	4:19pm	Teresa Cox

December 02, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
November 13, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1103225
PO/Job No. : 03-42
Invoice No. : 127488
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 11/13/03

Client Name : **Shanahan Consulting**
Report Date : 11/26/03

CTL Lab No. : 1103225
PO/ Job No. : 03-42

RESULTS OF ANALYSIS

Matrix Type: S

Field ID	CTL #	MDL	CT ETPH - mg/kg			
TG18S2	20149	25	BDL			
TG19S3	20150	25	BDL			
TG20S2	20151	25	BDL			
TG21S1	20152	25	BDL			
TG22S1	20153	25	495			
TG22S3	20154	25	BDL			
TG23S1	20155	25	BDL			
TG23S3	20156	25	BDL			

EPA Method 8082

Matrix Type :	**S**	**S**
CTL Sample No.:	**20153**	**20155**
Field ID :	**TG22S1**	**TG23S1**

Parameters	MDL				
Total PCBs-ppm	1	BDL	BDL		

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 11/12/03
CTL Lab No.: 1103225	Date Analyzed: 11/24/03
Job/PO No. : 03-42	Analyst: SF
Report Date : 11/26/03	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 11/13/03

Matrix Type	**S**	**S**	**S**	**S**
CTL Sample #:	**20150**	**20153**	**20157**	**20158**
Field ID :	**TG19S3**	**TG22S1**	**W1S1**	**W1S2**

Results of Analysis

Parameters	**MDL**				
Dichlorodifluoromethane	10	BDL	BDL	BDL	BDL
Chloromethane	10	BDL	BDL	BDL	BDL
Vinyl chloride	10	BDL	BDL	BDL	BDL
Chloroethane	10	BDL	BDL	BDL	BDL
Bromomethane	10	BDL	BDL	BDL	BDL
Trichlorofluoromethane	10	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	10	BDL	BDL	BDL	BDL
Methylene chloride	10	BDL	BDL	BDL	BDL
t-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
1,1-Dichloroethane	10	BDL	BDL	BDL	BDL
2,2-Dichloropropane	10	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
Chloroform	10	BDL	BDL	BDL	BDL
Bromochloromethane	10	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	10	BDL	BDL	BDL	BDL
1,1-Dichloropropylene	10	BDL	BDL	BDL	BDL
Carbon tetrachloride	10	BDL	BDL	BDL	BDL
Benzene	10	BDL	BDL	BDL	BDL
1,2-Dichloroethane	10	BDL	BDL	BDL	BDL
Trichloroethylene	10	BDL	BDL	BDL	BDL
1,2-Dichloropropane	10	BDL	BDL	BDL	BDL
Bromodichloromethane	10	BDL	BDL	BDL	BDL
Dibromomethane	10	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
Toluene	10	BDL	BDL	BDL	BDL
t-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	10	BDL	BDL	BDL	BDL
Tetrachloroethylene	10	BDL	BDL	BDL	BDL
1,3-Dichloropropane	10	BDL	BDL	BDL	BDL
Dibromochloromethane	10	BDL	BDL	BDL	BDL
1,2-Dibromoethane (EDB)	10	BDL	BDL	BDL	BDL
Chlorobenzene	10	BDL	BDL	BDL	BDL
Ethylbenzene	10	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
p/m-Xylene	10	BDL	BDL	BDL	BDL
o-Xylene	10	BDL	BDL	BDL	BDL

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 11/12/03
CTL Lab No.: 1103225	Date Analyzed: 11/24/03
Job/PO No. : 03-42	Analyst: SF
Report Date : 11/26/03	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 11/13/03

Matrix Type	**S**	**S**	**S**	**S**
CTL Sample #:	**20150**	**20153**	**20157**	**20158**
Field ID :	**TG19S3**	**TG22S1**	**W1S1**	**W1S2**

Results of Analysis

Parameters	**MDL**				
Styrene	10	BDL	BDL	BDL	BDL
Bromoform	10	BDL	BDL	BDL	BDL
Isopropylbenzene	10	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
Bromobenzene	10	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	10	BDL	BDL	BDL	BDL
n-Propylbenzene	10	BDL	BDL	BDL	BDL
2-Chlorotoluene	10	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	10	BDL	BDL	BDL	BDL
4-Chlorotoluene	10	BDL	BDL	BDL	BDL
tert-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2,4-Trimethylbenzene	10	BDL	BDL	BDL	BDL
sec-Butylbenzene	10	BDL	BDL	BDL	BDL
p-Isopropyltoluene	10	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	10	BDL	BDL	BDL	BDL
n-Butylbenzene	10	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	10	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	10	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Hexachlorobutadiene	50	BDL	BDL	BDL	BDL
Naphthalene	50	BDL	BDL	BDL	BDL
1,2,3-Trichlorobenzene	10	BDL	BDL	BDL	BDL
Methyl ethyl ketone	50	BDL	BDL	BDL	BDL
Methyl butyl ketone	50	BDL	BDL	BDL	BDL
Methyl isobutyl ketone	50	BDL	BDL	BDL	BDL
MTBE	10	BDL	BDL	BDL	BDL

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 11/13/03
CTL Lab No.: 1103225	Date Analyzed: 11/24/03
Job/PO No. : 03-42	Analyst: SF
Report Date : 11/26/03	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 11/13/03

Matrix Type	**S**	**S**
CTL Sample #:	**20159**	**20160**
Field ID :	**TG24S1**	**TG27S1**

Results of Analysis

Parameters	MDL				
Dichlorodifluoromethane	10	BDL	BDL		
Chloromethane	10	BDL	BDL		
Vinyl chloride	10	BDL	BDL		
Chloroethane	10	BDL	BDL		
Bromomethane	10	BDL	BDL		
Trichlorofluoromethane	10	BDL	BDL		
1,1-Dichloroethylene	10	BDL	BDL		
Methylene chloride	10	BDL	BDL		
t-1,2-Dichloroethylene	10	BDL	BDL		
1,1-Dichloroethane	10	BDL	BDL		
2,2-Dichloropropane	10	BDL	BDL		
cis-1,2-Dichloroethylene	10	BDL	BDL		
Chloroform	10	BDL	BDL		
Bromochloromethane	10	BDL	BDL		
1,1,1-Trichloroethane	10	BDL	BDL		
1,1-Dichloropropylene	10	BDL	BDL		
Carbon tetrachloride	10	BDL	BDL		
Benzene	10	BDL	BDL		
1,2-Dichloroethane	10	BDL	BDL		
Trichloroethylene	10	BDL	BDL		
1,2-Dichloropropane	10	BDL	BDL		
Bromodichloromethane	10	BDL	BDL		
Dibromomethane	10	BDL	BDL		
cis-1,3-Dichloropropylene	10	BDL	BDL		
Toluene	10	BDL	BDL		
t-1,3-Dichloropropylene	10	BDL	BDL		
1,1,2-Trichloroethane	10	BDL	BDL		
Tetrachloroethylene	10	BDL	BDL		
1,3-Dichloropropane	10	BDL	BDL		
Dibromochloromethane	10	BDL	BDL		
1,2-Dibromoethane (EDB)	10	BDL	BDL		
Chlorobenzene	10	BDL	BDL		
Ethylbenzene	10	BDL	BDL		
1,1,1,2-Tetrachloroethane	10	BDL	BDL		
p/m-Xylene	10	BDL	BDL		
o-Xylene	10	BDL	BDL		

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 11/13/03
CTL Lab No.: 1103225	Date Analyzed: 11/24/03
Job/PO No. : 03-42	Analyst: SF
Report Date : 11/26/03	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 11/13/03

Matrix Type	**S**	**S**
CTL Sample #:	**20159**	**20160**
Field ID :	**TG24S1**	**TG27S1**

Results of Analysis

Parameters	**MDL**				
Styrene	10	BDL	BDL		
Bromoform	10	BDL	BDL		
Isopropylbenzene	10	BDL	BDL		
1,1,2,2-Tetrachloroethane	10	BDL	BDL		
Bromobenzene	10	BDL	BDL		
1,2,3-Trichloropropane	10	BDL	BDL		
n-Propylbenzene	10	BDL	BDL		
2-Chlorotoluene	10	BDL	BDL		
1,3,5-Trimethylbenzene	10	BDL	BDL		
4-Chlorotoluene	10	BDL	BDL		
tert-Butylbenzene	10	BDL	BDL		
1,2,4-Trimethylbenzene	10	BDL	BDL		
sec-Butylbenzene	10	BDL	BDL		
p-Isopropyltoluene	10	BDL	BDL		
1,3-Dichlorobenzene	10	BDL	BDL		
1,4-Dichlorobenzene	10	BDL	BDL		
n-Butylbenzene	10	BDL	BDL		
1,2-Dichlorobenzene	10	BDL	BDL		
1,2-Dibromo-3-chloropropane	10	BDL	BDL		
1,2,4-Trichlorobenzene	10	BDL	BDL		
Hexachlorobutadiene	50	BDL	BDL		
Naphthalene	50	BDL	BDL		
1,2,3-Trichlorobenzene	10	BDL	BDL		
Methyl ethyl ketone	50	BDL	BDL		
Methyl butyl ketone	50	BDL	BDL		
Methyl isobutyl ketone	50	BDL	BDL		
MTBE	10	BDL	BDL		

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

December 11, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
December 01, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1103225
PO/Job No. : 03-42
Invoice No. : 127673
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 11/13/03
Date Samples Reactivated: 12/01/03

Client Name : **Shanahan Consulting**	CTL Lab No. : 1103225
Report Date : 12/09/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type : **S**
CTL Sample No.: **20153**
Field ID : **TG22S1**

Parameters	MDL				
Silver-mg/kg	0.2	BDL			
Arsenic-mg/kg	1.0	2.0			
Cadmium-mg/kg	0.5	BDL			
Chromium, Total-mg/kg	0.5	15.4			
Copper-mg/kg	0.5	21.9			
Mercury-mg/kg	0.02	BDL			
Lead-mg/kg	0.5	53.7			
Nickel-mg/kg	0.5	11.4			
Zinc-mg/kg	0.5	50.8			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

December 18, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
December 10, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1103225
PO/Job No. : 03-42
Invoice No. : 127825
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 11/13/03
Date Samples Reactivated: 12/10/03

Client Name : **Shanahan Consulting**	CTL Lab No. : 1103225
Report Date : 12/17/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type : **S**
CTL Sample No.: **20153**
Field ID : **TG22S1**

Parameters	MDL				
Chromium, Total-mg/L	0.05	BDL			
Lead-mg/L	0.005	0.013			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 03-42

PROJECT NAME EAST HADDAM

COLLECTED BY NED SHANAHAN

LAB# 1103225

REMARKS:

See Quotation HGSC101303 for rates.

* metals - Ag, As, Cd, Cr, Cu, Hg, Pb, Ni, Zn

X - added on 11-28-03. MS

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED: ETPH	Method 8260+ MTBE	PCBs	9 metals* - mass analysis	SPLP - Cr + Pb				SAMPLE REMARKS
TG18S2	11-12-03		Soil	Jar	1	See below	✓								
TG19S3	↓		↓	Vials/Jar	2/1	↓	✓	✓							
TG20S2				Jar	1		✓								
TG21S1				Jar	1		✓								
TG22S1				Vials/Jar	2/1		✓	✓	✓	X	✓				SPLP tests added 12-10-03. MS
TG22S3				Jar	1		✓								
TG23S1				Jar	1		✓		✓						
TG23S3				Jar	1		✓								
W1S1				Vials/Jar	2/1			✓							
W1S2	↓		↓	Vials/Jar	2/1	↓		✓							
TG24S1	11-13-03		Soil	Vials/Jar	2/1	See below		✓							
TG27S1	↓		↓	↓	↓	↓		✓							

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY ___

SAMPLE PRESERVATION REMARKS:
All containers chilled. Soil samples for VOC tests preserved via Method 5035.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	11-13-03	2PM	Lisa J. Cole

October 21, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 08, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003169
PO/Job No. : 03-42
Invoice No. : 126712
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 10/08/03

Client Name : **Shanahan Consulting**	CTL Lab No. : 1003169
Report Date : 10/20/03	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type : **S**
CTL Sample No. **17793**
Field ID : **SS-1**

Parameters	MDL				
Silver-mg/kg	0.2	BDL			
Arsenic-mg/kg	1.0	7.6			
Cadmium-mg/kg	0.5	1.4			
Chromium, Total-mg/kg	0.5	191			
Copper-mg/kg	0.5	562			
Mercury-mg/kg	0.02	57.0			
Lead-mg/kg	0.5	854			
Nickel-mg/kg	0.5	10.6			
Zinc-mg/kg	0.5	505			

Mass Analysis EPA 3050B

Matrix Type :	**S**	**S**	**S**
CTL Sample No.	**17789**	**17790**	**17791**
Field ID :	**TH1S2**	**TH1S3**	**TH2S2**

Parameters	MDL				
Lead-mg/kg	0.5	28.4	4.8	5.2	

Matrix Type : **S**
CTL Sample No. **17792**
Field ID : **TH3S3**

Parameters	MDL				
CT ETPH-mg/kg	25	BDL			

MDL= Minimum Detectable Level **BDL**= Below Detection Level

Matrix Types: **W** = Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consultting**	Date Extracted: 10/08/03
CTL Lab No.: 1003169	Date Analyzed: 10/18/03
Job/PO No. : 03-42	Analyst: YK
Report Date : 10/20/03	

EPA METHOD 8021B / 5035

Date Samples Rec'd: 10/08/03

Matrix Type:		**S**	**S**	**S**
CTL Sample #:		**17789**	**17790**	**17791**
Field ID :		**TH1S2**	**TH1S3**	**TH2S2**

Results of Analysis

Parameters	**MDL**				
Benzene	20	BDL	BDL	BDL	
Toluene	25	BDL	BDL	BDL	
Chlorobenzene	25	BDL	BDL	BDL	
Ethyl Benzene	25	BDL	BDL	BDL	
p/m-Xylene	25	BDL	BDL	BDL	
o-Xylene	25	BDL	BDL	BDL	
1,4-Dichlorobenzene	25	BDL	BDL	BDL	
1,3-Dichlorobenzene	25	BDL	BDL	BDL	
1,2-Dichlorobenzene	25	BDL	BDL	BDL	
MTBE	50	BDL	BDL	BDL	

NOTE: These samples were collected in Sodium Bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

October 31, 2003

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
October 21, 2003.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 1003169
PO/Job No. : EAST HADDAM
Invoice No. : 126944
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Sample Received: 10/08/03
Date Sample Reactivated: 10/21/03

Client Name : **Shanahan Consulting**	CTL Lab No. : 1003169
Report Date : 10/30/03	PO/ Job No. : East Haddam

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type : **S**
CTL Sample No.: **17793**
Field ID : **SS1**

Parameters	MDL				
Arsenic-mg/L	0.05	BDL			
Cadmium-mg/L	0.005	BDL			
Chromium, Total-mg/L	0.05	0.07			
Copper-mg/L	0.01	0.08			
Mercury-mg/L	0.002	0.004			
Lead-mg/L	0.005	0.128			
Nickel-mg/L	0.05	BDL			
Zinc-mg/L	0.05	BDL			

Mass Analysis EPA 3060A

Matrix Type : **S**
CTL Sample No.: **17793**
Field ID : **SS1**

Parameters	MDL				
Chromium, Hex.-mg/kg	3.0	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Date Sample Received: 10/08/03
Date Sample Reactivated: 10/21/03

Client Name : **Shanahan Consulting**	CTL Lab No. : 1003169
Report Date : 10/30/03	PO/ Job No. : East Haddam

RESULTS OF ANALYSIS

TCLP EPA 1311

Matrix Type : **S**
CTL Sample No.: **17793**
Field ID : **SS1**

Parameters	MDL				
Arsenic-mg/L	0.05	BDL			
Barium-mg/L	0.1	5.3			
Cadmium-mg/L	0.005	0.020			
Chromium, Total-mg/L	0.05	BDL			
Lead-mg/L	0.005	0.251			
Mercury-mg/L	0.002	BDL			
Selenium-mg/L	0.01	BDL			
Silver-mg/L	0.01	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 03-42

PROJECT NAME EAST HADDAM

COLLECTED BY NED SHANAHAN

LAB# 1003169

REMARKS:

See Helen for billing rates - quote requested.

* metals - Ag, As, Cd, Cr, Cu, Hg, Pb, Ni, Zn

x additional tests requested 10-21-03. MWS

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	Method 8021B - Aromatics + MTBE	Lead - mass analysis	ETPH	Metals * - mass analysis	Hex. Chromium - mass analysis	SPLP - As, Cd, Cr, Cu, Hg, Pb, Ni, Zn	TCLP - 8 RCRA metals	SAMPLE REMARKS
TH1S2	10-8-03		Soil	Jar/Vial	1/2	See below	✓	✓						
TH1S3	↓		↓	↓	↓	↓	✓	✓						
TH2S2				↓	↓	↓	✓	✓						
TH3S3				Jar	1	Chilled			✓					
SS1	↓		↓	↓	↓	↓				✓	x	x	x	

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY

SAMPLE PRESERVATION REMARKS:
All containers chilled. Soil samples for VOC tests preserved via Method 5035.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	10-8-03	438	Susan Cote

August 02, 2004

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
July 20, 2004.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No.	: 0704325
PO/Job No.	: 04-17
Invoice No.	: 131438
Customer No.	: 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER ▪ SOIL ▪ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ▪ 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE ▪ MERIDEN, CT ▪ 06451

Date Samples Received: 7/20/04

Client Name : **Shanahan Consulting**	Date Extracted: 7/27/04
CTL Lab No.: 0704325	Date Analyzed: 7/27/04
Job/PO No. : 04-17	Analyst: MP
Report. Date: 7/29/04	

RESULTS OF ANALYSIS

Matrix Type : **S**
CTL Sample No.: **13176**
Field ID : **DO1**

Parameters	MDL				
CT ETPH-mg/kg	25	BDL			

EPA Method 8082

Matrix Type : **S**
CTL Sample No.: **13176**
Field ID : **DO1**

Parameters	MDL				
Total PCBs-ppm	1	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 7/20/04
CTL Lab No.: 0704325	Date Analyzed: 7/26/04
Job/PO No. : 04-17	Analyst: SR
Report Date : 7/29/04	

EPA METHOD 5035 / 8260B GC/MS Date Samples Rec'd: 7/20/04

Matrix Type **S**
CTL Sample #: **13176**
Field ID : **DO1**

Results of Analysis

Parameters	MDL				
Dichlorodifluoromethane	10	BDL			
Chloromethane	10	BDL			
Vinyl chloride	10	BDL			
Chloroethane	10	BDL			
Bromomethane	10	BDL			
Trichlorofluoromethane	10	BDL			
1,1-Dichloroethylene	10	BDL			
Methylene chloride	10	BDL			
t-1,2-Dichloroethylene	10	BDL			
1,1-Dichloroethane	10	BDL			
2,2-Dichloropropane	10	BDL			
cis-1,2-Dichloroethylene	10	BDL			
Chloroform	10	BDL			
Bromochloromethane	10	BDL			
1,1,1-Trichloroethane	10	BDL			
1,1-Dichloropropylene	10	BDL			
Carbon tetrachloride	10	BDL			
Benzene	10	BDL			
1,2-Dichloroethane	10	BDL			
Trichloroethylene	10	BDL			
1,2-Dichloropropane	10	BDL			
Bromodichloromethane	10	BDL			
Dibromomethane	10	BDL			
cis-1,3-Dichloropropylene	10	BDL			
Toluene	10	BDL			
t-1,3-Dichloropropylene	10	BDL			
1,1,2-Trichloroethane	10	BDL			
Tetrachloroethylene	10	BDL			
1,3-Dichloropropane	10	BDL			
Dibromochloromethane	10	BDL			
1,2-Dibromoethane (EDB)	10	BDL			
Chlorobenzene	10	BDL			
Ethylbenzene	10	BDL			
1,1,1,2-Tetrachloroethane	10	BDL			
p/m-Xylene	10	BDL			
o-Xylene	10	BDL			

NOTE: This sample was collected in sodium bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL=** Below Detection Level **Units=** ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**	Date Extracted: 7/20/04
CTL Lab No.: 0704325	Date Analyzed: 7/26/04
Job/PO No. : 04-17	Analyst: SR
Report Date : 7/29/04	

EPA METHOD 5035 / 8260B GC/MS

Date Samples Rec'd: 7/20/04

Matrix Type **S**
CTL Sample #: **13176**
Field ID : **DO1**

Results of Analysis

Parameters	**MDL**				
Styrene	10	BDL			
Bromoform	10	BDL			
Isopropylbenzene	10	BDL			
1,1,2,2-Tetrachloroethane	10	BDL			
Bromobenzene	10	BDL			
1,2,3-Trichloropropane	10	BDL			
n-Propylbenzene	10	BDL			
2-Chlorotoluene	10	BDL			
1,3,5-Trimethylbenzene	10	BDL			
4-Chlorotoluene	10	BDL			
tert-Butylbenzene	10	BDL			
1,2,4-Trimethylbenzene	10	BDL			
sec-Butylbenzene	10	BDL			
p-Isopropyltoluene	10	BDL			
1,3-Dichlorobenzene	10	BDL			
1,4-Dichlorobenzene	10	BDL			
n-Butylbenzene	10	BDL			
1,2-Dichlorobenzene	10	BDL			
1,2-Dibromo-3-chloropropane	10	BDL			
1,2,4-Trichlorobenzene	10	BDL			
Hexachlorobutadiene	50	BDL			
Naphthalene	50	BDL			
1,2,3-Trichlorobenzene	10	BDL			
Methyl ethyl ketone	50	BDL			
Methyl butyl ketone	50	BDL			
Methyl isobutyl ketone	50	BDL			

NOTE: This sample was collected in sodium bisulfate and analyzed in accordance with EPA Method 5035.

MDL= Minimum Detectable Level **BDL**= Below Detection Level **Units**= ug/kg

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 04-17

PROJECT NAME EAST HADDAM

COLLECTED BY NED SHANAHAN

LAB# 0704325

REMARKS:

See Quotation HGSC101303 for rates.

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ETPH	PCBs	Method 8260 + MTBE						SAMPLE REMARKS
							ANALYSES REQUESTED								
D01	7-20-04		Soil	Jar/Vials	1/2	see below	✓	✓	✓						

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY _____

SAMPLE PRESERVATION REMARKS:
All containers chilled. Soil samples collected for VOC analysis preserved via Method 5035.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	7-20-04	2:00	MMcMahon

April 21, 2005

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Mr. Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
April 05, 2005.

RESUBMITTED REPORT WITH CORRECTED DATA ON APRIL 25, 2005.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 0405049
PO/Job No. : 04-17
Invoice No. : 135573
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 4/05/05

Client Name : **Shanahan Consulting**	CTL Lab No. : 0405049
Report Date : 4/20/05	PO/ Job No. : 04-17

RESULTS OF ANALYSIS

Mass Analysis EPA 3050B

Matrix Type: S

Field ID	CTL #	MDL	Total Arsenic -mg/kg			
AS1S1	5232	1.0	8.3			
AS1S2	5233	1.0	17.9			
AS1S3	5234	1.0	24.6			
AS2S1	5235	1.0	5.8			
AS2S3	5236	1.0	14.1			
AS3S1	5237	1.0	2.3			
AS3S2	5238	1.0	8.2			
AS3S3	5239	1.0	8.1			
AS4S1	5240	1.0	2.6			
AS4S3	5241	1.0	8.2			
AS5S1	5242	1.0	BDL			
AS5S3	5243	1.0	8.5			
AS6S1	5244	1.0	8.6			
AS6S3	5245	1.0	5.5			
AS7S1	5246	1.0	6.9			
AS7S3	5247	1.0	8.1			
AS8S1	5248	1.0	8.5			
AS8S3	5249	1.0	6.3			
AS9S1	5250	1.0	6.6			

MDL= Method Detection Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

LAB# 0405049

PROJECT NUMBER 04-17

PROJECT NAME East Haddam Town Hall

COLLECTED BY Ned Shanahan

REMARKS:

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED: Arsenic - mass analysis	SAMPLE REMARKS
AS1S1	4-5-05		Soil	Jar	1	Iced	✓	
~~AS2S2~~ AS1S2							✓	
~~AS3S3~~ AS1S3							✓	
AS2S1							✓	
AS2S3							✓	
AS3S1							✓	
AS3S2							✓	
AS3S3							✓	
AS4S1							✓	
AS4S3							✓	
AS5S1							✓	
AS5S3							✓	
AS6S1							✓	
AS6S3							✓	
AS7S1							✓	
AS7S3							✓	

corrected 4-21-05

MS

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY

SAMPLE PRESERVATION REMARKS:

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	4-5-05	1400	

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 04-17

PROJECT NAME East Haddam Town Hall

COLLECTED BY Ned Shanahan

LAB# 0405049

REMARKS:

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED: Arsenic - mass analysis	SAMPLE REMARKS
AS851	4-5-05		Soil	Jar	1	Iced	✓	
AS853	↓		↓	↓	↓	↓	✓	
AS951	↓		↓	↓	↓	↓	✓	

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY _____

SAMPLE PRESERVATION REMARKS:

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	4-5-05	1400	

Appendix I

Results of Laboratory Tests of Ground Water Samples

January 20, 2004

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
January 02, 2004.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 0104011
PO/Job No. : 03-42
Invoice No. : 128264
Customer No. : 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER SOIL AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE MERIDEN, CT 06451

Date Samples Received: 1/02/04

Client Name : **Shanahan Consulting**
Report Date : 1/19/04

CTL Lab No. : 0104011
PO/ Job No. : 03-42

RESULTS OF ANALYSIS

Dissolved Metals

Matrix Type :	**W**	**W**	**W**	**W**
CTL Sample No.:	**036**	**037**	**038**	**039**
Field ID :	**W1**	**W2**	**W3**	**W4**

Parameters	**MDL**				
Arsenic-mg/L	0.004	BDL	BDL	BDL	BDL
Chromium, Total-mg/L	0.05	BDL	BDL	BDL	BDL
Lead-mg/L	0.005	BDL	BDL	BDL	BDL

Matrix Type :	**W**	**W**
CTL Sample No.:	**040**	**041**
Field ID :	**MW1**	**MW2**

Parameters	**MDL**				
Arsenic-mg/L	0.004	BDL	BDL		
Chromium, Total-mg/L	0.05	BDL	BDL		
Lead-mg/L	0.005	BDL	0.006		

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Date Samples Received: 1/02/04

Client Name : **Shanahan Consulting**	CTL Lab No. : 0104011
Report Date : 1/19/04	PO/ Job No. : 03-42

RESULTS OF ANALYSIS

Total Metals

Matrix Type :	**W**	**W**	**W**	**W**
CTL Sample No.:	**036**	**037**	**038**	**039**
Field ID :	**W1**	**W2**	**W3**	**W4**

Parameters	**MDL**				
Arsenic-mg/L	0.004	0.010	0.005	0.007	0.022
Chromium, Total-mg/L	0.05	BDL	BDL	BDL	BDL
Lead-mg/L	0.005	0.013	0.025	0.017	0.035

Matrix Type :	**W**	**W**
CTL Sample No.:	**040**	**041**
Field ID :	**MW1**	**MW2**

Parameters	**MDL**				
Arsenic-mg/L	0.004	0.005	0.008		
Chromium, Total-mg/L	0.05	BDL	BDL		
Lead-mg/L	0.005	0.022	0.062		

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Date Samples Received : 1/02/04

Client Name : **Shanahan Consulting**	Date Extracted: 1/19/04
CTL Lab No.: 0104011	Date Analyzed: 1/19/04
Job/PO No. : 03-42	Analyst: MP
Report. Date: 1/19/04	

RESULTS OF ANALYSIS

Matrix Type: W

Field ID	CTL #	MDL	CT ETPH -mg/L			
W1	036	0.10	BDL			
W2	037	0.10	BDL			
W3	038	0.10	BDL			
W4	039	0.10	BDL			
MW1	040	0.10	BDL			
MW2	041	0.10	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**
CTL Lab No.: 0104011
Job/PO No. : 03-42
Report Date : 1/19/04

Date Analyzed: 1/07/04
Analyst: SR

VOLATILE ORGANIC CHEMICALS BY EPA 502.2/524.2

Date Samples Rec'd: 1/02/04

Matrix Type	**W**	**W**	**W**	**W**
CTL Sample #:	**036**	**037**	**038**	**039**
Field ID :	**W1**	**W2**	**W3**	**W4**

Results of Analysis

Parameters	MDL				
Dichlorodifluoromethane	0.5	BDL	BDL	BDL	BDL
Chloromethane	0.5	BDL	BDL	BDL	BDL
Vinyl chloride	0.5	BDL	BDL	BDL	BDL
Chloroethane	0.5	BDL	BDL	BDL	BDL
Bromomethane	0.5	BDL	BDL	BDL	BDL
Trichlorofluoromethane	0.5	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	0.5	BDL	BDL	BDL	BDL
Methylene chloride	0.5	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	0.5	BDL	BDL	BDL	BDL
1,1-Dichloroethane	0.5	BDL	BDL	BDL	BDL
2,2-Dichloropropane	0.5	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	0.5	BDL	BDL	BDL	BDL
Chloroform	0.5	BDL	BDL	BDL	BDL
Bromochloromethane	0.5	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	0.5	BDL	BDL	BDL	BDL
1,1-Dichloropropylene	0.5	BDL	BDL	BDL	BDL
Carbon tetrachloride	0.5	BDL	BDL	BDL	BDL
Benzene	0.5	BDL	BDL	BDL	BDL
1,2-Dichloroethane	0.5	BDL	BDL	BDL	BDL
Trichloroethylene	0.5	BDL	BDL	BDL	BDL
1,2-Dichloropropane	0.5	BDL	BDL	BDL	BDL
Bromodichloromethane	0.5	BDL	BDL	BDL	BDL
Dibromomethane	0.5	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	0.5	BDL	BDL	BDL	BDL
Toluene	0.5	BDL	BDL	BDL	BDL
t-1,3-Dichloropropylene	0.5	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	0.5	BDL	BDL	BDL	BDL
Tetrachloroethylene	0.5	BDL	BDL	BDL	BDL
1,3-Dichloropropane	0.5	BDL	BDL	BDL	BDL
Dibromochloromethane	0.5	BDL	BDL	BDL	BDL
1,2-Dibromoethane	1.0	BDL	BDL	BDL	BDL
Chlorobenzene	0.5	BDL	BDL	BDL	BDL
Ethylbenzene	0.5	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	0.5	BDL	BDL	BDL	BDL
p/m-Xylene	0.5	BDL	BDL	BDL	BDL
o-Xylene	0.5	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level / **BDL** = Below Detection Level / **Units** = ppb

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbons

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**
CTL Lab No.: 0104011
Job/PO No. : 03-42
Report Date : 1/19/04

Date Analyzed: 1/07/04
Analyst: SR

VOLATILE ORGANIC CHEMICALS BY EPA 502.2/524.2

Date Samples Rec'd: 1/02/04

Matrix Type	**W**	**W**	**W**	**W**
CTL Sample #:	**036**	**037**	**038**	**039**
Field ID :	**W1**	**W2**	**W3**	**W4**

Results of Analysis

Parameters	MDL				
Styrene	0.5	BDL	BDL	BDL	BDL
Bromoform	0.5	BDL	BDL	BDL	BDL
Isopropylbenzene	0.5	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	0.5	BDL	BDL	BDL	BDL
Bromobenzene	0.5	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	0.5	BDL	BDL	BDL	BDL
n-Propylbenzene	0.5	BDL	BDL	BDL	BDL
2-Chlorotoluene	0.5	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	0.5	BDL	BDL	BDL	BDL
4-Chlorotoluene	0.5	BDL	BDL	BDL	BDL
tert-Butylbenzene	0.5	BDL	BDL	BDL	BDL
1,2,4-Trimethylbenzene	0.5	BDL	BDL	BDL	BDL
sec-Butylbenzene	0.5	BDL	BDL	BDL	BDL
p-Isopropyltoluene	0.5	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	0.5	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	0.5	BDL	BDL	BDL	BDL
n-Butylbenzene	0.5	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	0.5	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	1.0	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	0.5	BDL	BDL	BDL	BDL
Hexachlorobutadiene	1.0	BDL	BDL	BDL	BDL
Naphthalene	1.0	BDL	BDL	BDL	BDL
1,2,3-Trichlorobenzene	0.5	BDL	BDL	BDL	BDL
MTBE	1.0	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level / **BDL =** Below Detection Level / **Units =** ppb

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbons

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**
CTL Lab No.: 0104011
Job/PO No. : 03-42
Report Date : 1/19/04

Date Analyzed: 1/07/04
Analyst: SR

VOLATILE ORGANIC CHEMICALS BY EPA 502.2/524.2

Date Samples Rec'd: 1/02/04

Matrix Type	**W**	**W**	**W**
CTL Sample #:	**040**	**041**	**043**
Field ID :	**MW1**	**MW2**	**Supply Well**

Results of Analysis

Parameters	MDL				
Dichlorodifluoromethane	0.5	BDL	BDL	BDL	
Chloromethane	0.5	BDL	BDL	BDL	
Vinyl chloride	0.5	BDL	BDL	BDL	
Chloroethane	0.5	BDL	BDL	BDL	
Bromomethane	0.5	BDL	BDL	BDL	
Trichlorofluoromethane	0.5	BDL	BDL	BDL	
1,1-Dichloroethylene	0.5	BDL	BDL	BDL	
Methylene chloride	0.5	BDL	BDL	BDL	
trans-1,2-Dichloroethylene	0.5	BDL	BDL	BDL	
1,1-Dichloroethane	0.5	BDL	BDL	BDL	
2,2-Dichloropropane	0.5	BDL	BDL	BDL	
cis-1,2-Dichloroethylene	0.5	BDL	BDL	BDL	
Chloroform	0.5	BDL	0.6	1.0	
Bromochloromethane	0.5	BDL	BDL	BDL	
1,1,1-Trichloroethane	0.5	BDL	BDL	BDL	
1,1-Dichloropropylene	0.5	BDL	BDL	BDL	
Carbon tetrachloride	0.5	BDL	BDL	BDL	
Benzene	0.5	BDL	BDL	BDL	
1,2-Dichloroethane	0.5	BDL	BDL	BDL	
Trichloroethylene	0.5	BDL	BDL	BDL	
1,2-Dichloropropane	0.5	BDL	BDL	BDL	
Bromodichloromethane	0.5	BDL	BDL	BDL	
Dibromomethane	0.5	BDL	BDL	BDL	
cis-1,3-Dichloropropylene	0.5	BDL	BDL	BDL	
Toluene	0.5	BDL	BDL	BDL	
t-1,3-Dichloropropylene	0.5	BDL	BDL	BDL	
1,1,2-Trichloroethane	0.5	BDL	BDL	BDL	
Tetrachloroethylene	0.5	BDL	BDL	BDL	
1,3-Dichloropropane	0.5	BDL	BDL	BDL	
Dibromochloromethane	0.5	BDL	BDL	BDL	
1,2-Dibromoethane	1.0	BDL	BDL	BDL	
Chlorobenzene	0.5	BDL	BDL	BDL	
Ethylbenzene	0.5	BDL	BDL	BDL	
1,1,1,2-Tetrachloroethane	0.5	BDL	BDL	BDL	
p/m-Xylene	0.5	BDL	BDL	BDL	
o-Xylene	0.5	BDL	BDL	BDL	

MDL = Minimum Detectable Level / **BDL =** Below Detection Level / **Units =** ppb

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbons

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**
CTL Lab No.: 0104011
Job/PO No. : 03-42
Report Date : 1/19/04

Date Analyzed: 1/07/04
Analyst: SR

VOLATILE ORGANIC CHEMICALS BY EPA 502.2/524.2

Date Samples Rec'd: 1/02/04

Matrix Type	**W**	**W**	**W**
CTL Sample #:	**040**	**041**	**043**
Field ID :	**MW1**	**MW2**	**Supply Well**

Results of Analysis

Parameters	MDL				
Styrene	0.5	BDL	BDL	BDL	
Bromoform	0.5	BDL	BDL	BDL	
Isopropylbenzene	0.5	BDL	BDL	BDL	
1,1,2,2-Tetrachloroethane	0.5	BDL	BDL	BDL	
Bromobenzene	0.5	BDL	BDL	BDL	
1,2,3-Trichloropropane	0.5	BDL	BDL	BDL	
n-Propylbenzene	0.5	BDL	BDL	BDL	
2-Chlorotoluene	0.5	BDL	BDL	BDL	
1,3,5-Trimethylbenzene	0.5	BDL	BDL	BDL	
4-Chlorotoluene	0.5	BDL	BDL	BDL	
tert-Butylbenzene	0.5	BDL	BDL	BDL	
1,2,4-Trimethylbenzene	0.5	BDL	BDL	BDL	
sec-Butylbenzene	0.5	BDL	BDL	BDL	
p-Isopropyltoluene	0.5	BDL	BDL	BDL	
1,3-Dichlorobenzene	0.5	BDL	BDL	BDL	
1,4-Dichlorobenzene	0.5	BDL	BDL	BDL	
n-Butylbenzene	0.5	BDL	BDL	BDL	
1,2-Dichlorobenzene	0.5	BDL	BDL	BDL	
1,2-Dibromo-3-chloropropane	1.0	BDL	BDL	BDL	
1,2,4-Trichlorobenzene	0.5	BDL	BDL	BDL	
Hexachlorobutadiene	1.0	BDL	BDL	BDL	
Naphthalene	1.0	BDL	BDL	BDL	
1,2,3-Trichlorobenzene	0.5	BDL	BDL	BDL	
MTBE	1.0	BDL	BDL	BDL	

MDL = Minimum Detectable Level / **BDL =** Below Detection Level / **Units =** ppb

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbons

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

PROJECT NUMBER 03-42

PROJECT NAME EAST HADDAM

COLLECTED BY NED SHANAHAN

LAB# 0104011

REMARKS:

See Quotation HGSC101303 for rates.

Please acidify all cubies.
Need low detections for metals.

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED: Method 502.2 + MTBE	ETPH	Dissolved As, Cr, Pb	Total As, Cr, Pb					SAMPLE REMARKS
W1	1-2-04	145	Water	Jar/vial/cube	1/2/2	see below	✓	✓	✓	✓					
W2	↓	155	↓	↓	↓	↓	✓	✓	✓	✓					
W3		130					✓	✓	✓	✓					
W4		115					✓	✓	✓	✓					
MW1		230					✓	✓	✓	✓					Dissolved cubie not full.
MW2	↓	245	↓	↓	↓	↓	✓	✓	✓	✓					
Supply well	1-2-04	300	Water	Vial	2	see below	✓								

REQUESTED TURNAROUND:
BEST AVAILABLE TIME ✓
PRIORITY

SAMPLE PRESERVATION REMARKS:
All containers chilled. Vials preserved with HCl. Please acidify all cubies.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	1-2-04	4:15pm	Mary Carlson

January 20, 2004

Shanahan Consulting
36 Penfield Place
Farmington, CT 06032

Attn: Ned Shanahan

Please find attached laboratory report(s) for the samples submitted on:
January 02, 2004.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No.	: 0104012
PO/Job No.	: 03-42
Invoice No.	: 128261
Customer No.	: 691

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories *inc.*
WATER ▪ SOIL ▪ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ▪ 203/634-3731
www.ctl-web.com / ctestlab@erols.com
165 GRACEY AVENUE ▪ MERIDEN, CT 06451

Date Samples Received: 1/02/04

Client Name : **Shanahan Consulting**	Date Extracted: 1/19/04
CTL Lab No.: 0104012	Date Analyzed: 1/19/04
Job/PO No. : 03-42	Analyst: MP
Report. Date: 1/19/04	

RESULTS OF ANALYSIS

Matrix Type : **W**
CTL Sample No.: **042**
Field ID : **MW3**

Parameters	MDL				
CT ETPH-mg/L	0.10	BDL			

MDL= Minimum Detectable Level / **BDL**= Below Detection Level

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbon

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Shanahan Consulting

36 PENFIELD PLACE, FARMINGTON, CONNECTICUT 06032-2200
TELEPHONE: (860) 677-2674 FAX: (860) 677-4377

CHAIN OF CUSTODY

LAB# 0104012

PROJECT NUMBER 03-42

PROJECT NAME EAST HADDAM

COLLECTED BY NED SHANAHAN

REMARKS:

See Quotation HGSC101303 for rates.

SAMPLE	DATE	TIME	SAMPLE MATRIX	TYPE OF CONTAINER	# OF CONT.	PRESERVED	ANALYSES REQUESTED: Method 502.2 +MTBE	ANALYSES REQUESTED: ETPH	SAMPLE REMARKS
MW3	1-2-04	1045	Water	Jar/Vial	1/2	see below	✓	✓	

REQUESTED TURNAROUND:

BEST AVAILABLE TIME ✓

PRIORITY

SAMPLE PRESERVATION REMARKS:
All containers chilled. Vials preserved with HCl.

RELINQUISHED BY	DATE	TIME	RECEIVED BY
Ned Shanahan	1-2-04	4:16pm	Mary Carlson

Client Name : **Shanahan Consulting**
CTL Lab No.: 0104012
Job/PO No. : 03-42
Report Date : 1/19/04

Date Analyzed: 1/07/04
Analyst: SR

VOLATILE ORGANIC CHEMICALS BY EPA 502.2/524.2

Date Samples Rec'd: 1/02/04

Matrix Type **W**
CTL Sample #: **042**
Field ID : **MW3**

Results of Analysis

Parameters	MDL				
Styrene	0.5	BDL			
Bromoform	0.5	BDL			
Isopropylbenzene	0.5	BDL			
1,1,2,2-Tetrachloroethane	0.5	BDL			
Bromobenzene	0.5	BDL			
1,2,3-Trichloropropane	0.5	BDL			
n-Propylbenzene	0.5	BDL			
2-Chlorotoluene	0.5	BDL			
1,3,5-Trimethylbenzene	0.5	BDL			
4-Chlorotoluene	0.5	BDL			
tert-Butylbenzene	0.5	BDL			
1,2,4-Trimethylbenzene	0.5	BDL			
sec-Butylbenzene	0.5	BDL			
p-Isopropyltoluene	0.5	BDL			
1,3-Dichlorobenzene	0.5	BDL			
1,4-Dichlorobenzene	0.5	BDL			
n-Butylbenzene	0.5	BDL			
1,2-Dichlorobenzene	0.5	BDL			
1,2-Dibromo-3-chloropropane	1.0	BDL			
1,2,4-Trichlorobenzene	0.5	BDL			
Hexachlorobutadiene	1.0	BDL			
Naphthalene	1.0	BDL			
1,2,3-Trichlorobenzene	0.5	BDL			
MTBE	1.0	BDL			

MDL = Minimum Detectable Level / **BDL** = Below Detection Level / **Units** = ppb

Matrix Type: **W=** Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbons

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

Client Name : **Shanahan Consulting**
CTL Lab No.: 0104012
Job/PO No. : 03-42
Report Date : 1/19/04

Date Analyzed: 1/07/04
Analyst: SR

VOLATILE ORGANIC CHEMICALS BY EPA 502.2/524.2

Date Samples Rec'd: 1/02/04

Matrix Type W
CTL Sample #: 042
Field ID : MW3

Results of Analysis

Parameters	MDL				
Dichlorodifluoromethane	0.5	BDL			
Chloromethane	0.5	BDL			
Vinyl chloride	0.5	BDL			
Chloroethane	0.5	BDL			
Bromomethane	0.5	BDL			
Trichlorofluoromethane	0.5	BDL			
1,1-Dichloroethylene	0.5	BDL			
Methylene chloride	0.5	BDL			
trans-1,2-Dichloroethylene	0.5	BDL			
1,1-Dichloroethane	0.5	BDL			
2,2-Dichloropropane	0.5	BDL			
cis-1,2-Dichloroethylene	0.5	BDL			
Chloroform	0.5	BDL			
Bromochloromethane	0.5	BDL			
1,1,1-Trichloroethane	0.5	BDL			
1,1-Dichloropropylene	0.5	BDL			
Carbon tetrachloride	0.5	BDL			
Benzene	0.5	BDL			
1,2-Dichloroethane	0.5	BDL			
Trichloroethylene	0.5	BDL			
1,2-Dichloropropane	0.5	BDL			
Bromodichloromethane	0.5	BDL			
Dibromomethane	0.5	BDL			
cis-1,3-Dichloropropylene	0.5	BDL			
Toluene	0.5	BDL			
t-1,3-Dichloropropylene	0.5	BDL			
1,1,2-Trichloroethane	0.5	BDL			
Tetrachloroethylene	0.5	BDL			
1,3-Dichloropropane	0.5	BDL			
Dibromochloromethane	0.5	BDL			
1,2-Dibromoethane	1.0	BDL			
Chlorobenzene	0.5	BDL			
Ethylbenzene	0.5	BDL			
1,1,1,2-Tetrachloroethane	0.5	BDL			
p/m-Xylene	0.5	BDL			
o-Xylene	0.5	BDL			

MDL = Minimum Detectable Level / **BDL =** Below Detection Level / **Units =** ppb

Matrix Type: W= Water/Aqueous **S=** Soil/Solid **O=** Oil/Hydrocarbons

Connecticut Testing Laboratories, Inc.
165 Gracey Avenue / Meriden, CT 06451
(203) 634-3731 (Fax) 630-1336
Certification CT-PH0547/ MA-CT035

APPENDIX B

SOIL TEST BORING LOGS

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	B1
		Sheet	1 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	16'
Foreman	Gary	Screen Length	
Eagle Scientist	Kristi Gagnon	Screen Slot Size	
Date Start	06/21/18	Filter Pack Material	
Date End	06/22/18	Casing type	
Time Start	0800	Cover Type	
Time End	1600		

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample: Penetration (inches)	Sample: Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-2.0	NR	(0.0-2.0) No Recovery		
	12.0	0.0					
	12.0	12.0	2.0-4.0	0.0	(2.0-2.2) ASPHALT, (2.2-2.3) CONCRETE (2.3-3.0) Light Brown/Red M-F SAND, silt		
	12.0	12.0			(3.0-4.0) Light Brown M-F SAND, M-F gravel		
5	12.0	12.0	4.0-6.0	4.5	(4.0-5.0) Same As Above		
	12.0	0.0			(5.0-6.0) No Recovery		
	12.0	2.0	6.0-8.0	0.0	(6.10-7.0) Light Brown/Red M-F SAND, silt F gravel (WET)	Groundwater at 6.0'	
	12.0	12.0			(7.0-8.0) Same As Above		
	12.0	12.0	8.0-10.0	3.0	(8.0-10.0) Light Brown/Red M-F SAND, silt (WET)		
10	12.0	12.0					
	12.0	0.0	10.0-12.0	NR	(10.0-12.0) No Recovery		
	12.0	0.0					
	12.0	12.0	12.0-14.0	0.0	(12.0-14.0) Light Brown/Red F SAND, silt (WET)		
	12.0	12.0					
15	12.0	12.0	14.0-16.0	0.0	(14.0-15.0) Same As Above		
	12.0	0.0			(15.0-16.0) No Recovery		
					Bottom of Boring at 16.0'		
20							
25							
30							
35							

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	B2
		Sheet	2 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

		Well Completion Details		Well Diagram
Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	16'	
Foreman	Gary	Screen Length		Well Screen
Eagle Scientist	Kristi Gagnon	Screen Slot Size		Well Sand
Date Start	06/21/18 Date End 06/22/18	Filter Pack Material		Bentonite Seal
Time Start	0800 Time End 1600	Casing type		Cuttings
		Cover Type		Cement Grout

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-2.0	NR	(0.0-2.0) No Recovery	Groundwater at 10.0'	
	12.0	0.0					
	12.0	0.0	2.0-4.0	0.0	(2.0-3.0) No Recovery		
	12.0	12.0			(3.0-3.2) ASPHALT (3.2-3.4) CONCRETE (3.4-4.0) Light Brown/Red M-F SAND, silt, C-F gravel		
5	12.0	12.0	4.0-6.0	2.4	(4.0-5.0) Light Brown/Red M-F SAND, silt, F gravel		
	12.0	12.0			(5.0-6.0) No Recovery		
	12.0	12.0	6.0-8.0	0.0	(6.8-7.0) (FILL-brick & concrete) Grey/Light Brown M-F SAND, silt, C-F gravel		
	12.0	12.0			(7.0-8.0) Same As Above		
	12.0	12.0	8.0-10.0	1.1	(8.0-9.0) Same As Above		
10	12.0	12.0			(9.0-10.0) Light Brown/Red M-F SAND, silt (WET)		
	12.0	12.0	10.0-12.0	40.1	(10.10-12.0) Same As Above		
	12.0	12.0					
	12.0	12.0	12.0-14.0	0.0	(12.0-14.0) Same As Above		
	12.0	12.0					
15	12.0	12.0	14.0-16.0	0.0	(14.0-15.0) Light Brown/Red F SAND, silt (WET)		
	12.0	0.0			(15.0-16.0) No Recovery		
					Bottom of Boring at 16.0'		
20							
25							
30							
35							

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	B3
		Sheet	3 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

		Well Completion Details		Well Diagram
Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	16'	
Foreman	Gary	Screen Length		Well Screen
Eagle Scientist	Kristi Gagnon	Screen Slot Size		Well Sand
Date Start	06/21/18	Filter Pack Material		Bentonite Seal
Time Start	0800	Casing type		Cuttings
Date End	06/22/18	Cover Type		Cement Grout
Time End	1600			

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Sample Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-2.0	NR	(0.0-2.0) No Recovery	Groundwater at 10.0'	
	12.0	0.0					
	12.0	0.0	2.0-4.0	0.0	(2.0-3.0) No Recovery		
	12.0	12.0			(3.0-3.2) ASPHALT (3.2-3.4) CONCRETE (3.4-4.0) Brown/Red M-F SAND, silt, M-F gravel		
5	12.0	12.0	4.0-6.0	4.5	(4.0-5.0) Same As Above		
	12.0	0.0			(5.0-6.0) No Recovery		
	12.0	2.0	6.0-8.0	0.0	(7.0-8.0) (FILL-brick & concrete) Grey/Light Brown M-F SAND, silt, C-F gravel		
	12.0	12.0					
	12.0	12.0	8.0-10.0	3.0	(8.0-10.0) Light Brown/Red M-F SAND, silt (WET)		
10	12.0	12.0					
	12.0	0.0	10.0-12.0	NR	(10.0-12.0) No Recovery		
	12.0	0.0					
	12.0	12.0	12.0-14.0	0.0	(12.0-14.0) Light Brown/Red F SAND, silt (WET)		
	12.0	12.0					
15	12.0	12.0	14.0-16.0	0.0	(14.0-15.0) Same As Above		
	12.0	0.0			(15.0-16.0) No Recovery		
					Bottom of Boring at 16.0'		
20							
25							
30							
35							

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	B4
		Sheet	4 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	16'
Foreman	Gary	Screen Length	
Eagle Scientist	Kristi Gagnon	Screen Slot Size	
Date Start	06/21/18	Filter Pack Material	
Date End	06/22/18	Casing type	
Time Start	0800	Cover Type	
Time End	1600		

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample: Penetration (inches)	Sample: Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-2.0	NR	(0.0-2.0) No Recovery		
	12.0	0.0					
	12.0	6.0	2.0-4.0	0.0	(2.6-3.0) Grey C-F gravel		
	12.0	12.0			(3.0-4.0) Light Brown/Grey M-F SAND, silt, C-F gravel		
5	12.0	12.0	4.0-6.0	0.0	(4.0-5.0) Dark Brown/Grey M-F SAND, silt, C-F gravel		
	12.0	0.0			(5.0-6.0) No Recovery		
	12.0	4.0	6.0-8.0	0.0	(6.8-7.0) Light Brown/Light Grey M-F SAND, silt, M-F gravel		
	12.0	12.0			(7.0-8.0) Light Brown M-F SAND, silt		
	12.0	12.0	8.0-10.0	13.6	(8.0-10.0) Same As Above		
10	12.0	12.0					
	12.0	8.0	10.0-12.0	4.0	(10.4-11.0) Same As Above (WET)	Groundwater at 10.0'	
	12.0	12.0			(11.0-12.0) Same As Above (WET)		
	12.0	12.0	12.0-14.0	0.0	(12.0-14.0) Same As Above (WET)		
	12.0	12.0					
15	12.0	12.0	14.0-16.0	0.0	(14.0-15.0) Light Brown F SAND, silt (WET)		
	12.0	0.0			(15.0-16.0) No Recovery		
					Bottom of Boring at 16.0'		
20							
25							
30							
35							

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	B5
		Sheet	5 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	16'
Foreman	Gary	Screen Length	
Eagle Scientist	Kristi Gagnon	Screen Slot Size	
Date Start	06/21/18	Filter Pack Material	
Date End	06/22/18	Casing type	
Time Start	0800	Cover Type	
Time End	1600		

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample: Penetration (inches)	Sample: Recovery (inches)	Sample: Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-2.0	NR	(0.0-2.0) No Recovery		
	12.0	0.0					
	12.0	0.0	2.0-4.0	0.0	(2.0-3.0) No Recovery		
	12.0	12.0			(3.0-4.0) (FILL - brick & concrete) Brown/Grey M-F SAND, C-F gravel		
5	12.0	12.0	4.0-6.0	0.0	(4.0-5.0) (FILL - brick & concrete) Brown/Grey M-F SAND, C-F gravel, trace silt		
	12.0	0.0			(5.0-6.0) No Recovery		
	12.0	12.0	6.0-8.0	0.0	(6.0-7.0) (FILL - brick & concrete) Brown/Grey M-F SAND, C-F gravel, trace silt		
	12.0	12.0			(7.0-8.0) Light Brown M-F SAND, silt		
	12.0	12.0	8.0-10.0	0.0	(8.0-10.0) Same As Above		
10	12.0	12.0					
	12.0	12.0	10.0-12.0	0.0	(10.0-10.6) (FILL - brick & concrete) Dark Brown C-F SAND, M-F gravel (WET)	Groundwater at 10.0'	
	12.0	12.0			(10.6-12.0) Light Brown M-F SAND, silt (WET)		
	12.0	12.0	12.0-14.0	8.6	(12.0-14.0) Same As Above (WET)		
	12.0	12.0					
15	12.0	12.0	14.0-16.0	0.0	(14.0-15.0) Light Brown F SAND, silt (WET)		
	12.0	0.0			(15.0-16.0) No Recovery		
					Bottom of Boring at 16.0'		
20							
25							
30							
35							

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	B6
		Sheet	6 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	16'
Foreman	Gary	Screen Length	
Eagle Scientist	Kristi Gagnon	Screen Slot Size	
Date Start	06/21/18	Filter Pack Material	
Date End	06/22/18	Casing type	
Time Start	0800	Cover Type	
Time End	1600		

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-2.0	NR	(0.0-2.0) No Recovery		
	12.0	0.0					
	12.0	12.0	2.0-4.0	0.0	(2.0-4.0) (FILL-brick) Light Brown/Grey M-F SAND, silt, C-F gravel		
	12.0	12.0					
5	12.0	12.0	4.0-6.0	0.5	(4.0-5.0) Same As Above		
	12.0	0.0			(5.0-6.0) No Recovery		
	12.0	12.0	6.0-8.0	6.1	(6.0-8.0) Light Brown/Grey M-F SAND, C-F gravel, trace silt		
	12.0	12.0					
	12.0	12.0	8.0-10.0	0.5	(8.0-10.0) Light Brown M-F SAND, silt		
10	12.0	12.0					
	12.0	12.0	10.0-12.0	0.0	(10.0-12.0) Same As Above (WET)	Groundwater at 10.0'	
	12.0	12.0					
	12.0	12.0	12.0-14.0	0.0	(12.0-14.0) Same As Above (WET)		
	12.0	12.0					
15	12.0	12.0	14.0-16.0	0.0	(14.0-15.0) Light Brown F SAND, silt (WET)		
	12.0	0.0			(15.0-16.0) No Recovery		
					Bottom of Boring at 16.0'		
20							
25							
30							
35							

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	B7-B7A
		Sheet	7 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

		Well Completion Details		Well Diagram
Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	16'	Well Screen
Foreman	Gary	Screen Length		Well Sand
Eagle Scientist	Kristi Gagnon	Screen Slot Size		Bentonite Seal
Date Start	06/21/18 Date End 06/22/18	Filter Pack Material		Cuttings
Time Start	0800 Time End 1600	Casing type		Cement Grout
		Cover Type		

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes
	12.0	0.0	0.0-2.0	NR	(0.0-2.0) No Recovery	B7
	12.0	0.0				
	12.0	0.0	2.0-4.0	0.0	(2.0-3.0) No Recovery	B7
	12.0	12.0			(3.0-4.0) Light Brown C-F SAND, C-F gravel, trace silt	
5	12.0	12.0	4.0-6.0	0.0	(4.0-5.0) Light Brown M-F SAND, trace silt	B7
	12.0	0.0			(5.0-6.0) No Recovery	
	12.0	12.0	6.0-8.0	0.0	(6.0-6.2) Light Grey M-F SAND, silt, trace F gravel	B7A
	12.0	12.0			(6.2-8.0) Light Brown M-F SAND, silt, trace F gravel	
	12.0	0.0	8.0-10.0	0.0	(8.0-10.0) Light Brown M-F SAND, silt	B7
10	12.0	8.0				
	12.0	12.0	10.0-12.0	0.0	(10.0-12.0) Same As Above (WET)	Groundwater at 10.0'
	12.0	12.0				
	12.0	12.0	12.0-14.0	0.7	(12.0-14.0) Light Brown F SAND, silt (WET)	B7A
	12.0	12.0				
15	12.0	12.0	14.0-16.0	0.0	(14.0-15.0) Same As Above (WET)	B7A
	12.0	0.0			(15.0-16.0) No Recovery	
					Bottom of Boring at 16.0'	
20						
25						
30						
35						

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	B8
		Sheet	8 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

		Well Completion Details	Well Diagram
Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	16'
Foreman	Gary	Screen Length	
Eagle Scientist	Kristi Gagnon	Screen Slot Size	
Date Start	06/21/18	Filter Pack Material	
Date End	06/22/18	Casing type	
Time Start	0800	Cover Type	
Time End	1600		

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Sample Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-2.0	NR	(0.0-2.0) No Recovery		
	12.0	0.0					
	12.0	0.0	2.0-4.0	0.0	(2.0-3.0) No Recovery		
	12.0	12.0			(3.0-4.0) (FILL - brick & concrete) Dark Brown M-F SAND, silt, C-F gravel		
5	12.0	12.0	4.0-6.0	0.0	(4.0-5.0) Light Brown M-F SAND, silt, C-F gravel		
	12.0	0.0			(5.0-6.0) No Recovery		
	12.0	12.0	6.0-8.0	0.0	(6.0-8.0) Light Brown M-F SAND, silt		
	12.0	12.0					
	12.0	12.0	8.0-10.0	0.0	(8.0-10.0) Same As Above (WET)	Groundwater at 8.0'	
10	12.0	12.0					
	12.0	12.0	10.0-12.0	0.0	(10.0-12.0) Same As Above (WET)		
	12.0	12.0					
	12.0	12.0	12.0-14.0	0.0	(12.0-14.0) Same As Above (WET)		
	12.0	12.0					
15	12.0	12.0	14.0-16.0	0.0	(14.0-15.0) Same As Above (WET)		
	12.0	0.0			(15.0-16.0) No Recovery		
					Bottom of Boring at 16.0'		
20							
25							
30							
35							

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

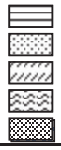
GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	B9
		Sheet	9 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	16'
Foreman	Gary	Screen Length	
Eagle Scientist	Kristi Gagnon	Screen Slot Size	
Date Start	06/21/18	Filter Pack Material	
Date End	06/22/18	Casing type	
Time Start	0800	Cover Type	
Time End	1600		

Well Completion Details

Well Diagram



Depth	Sample: Penetration (inches)	Sample: Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes
	12.0	0.0	0.0-2.0	NR	(0.0-2.0) No Recovery	Groundwater at 8.0' Petroleum odor detected at 8.0'
	12.0	0.0				
	12.0	0.0	2.0-4.0	NR	(2.0-4.0) No Recovery	
	12.0	0.0				
5	12.0	12.0	4.0-6.0	3.0	(4.0-5.0) (FILL-brick) Brown/Grey M-F SAND, M-F gravel, trace silt	
	12.0	0.0			(5.0-6.0) No Recovery	
	12.0	12.0	6.0-8.0	0.0	(6.0-8.0) Light Brown M-F SAND, silt, C-F gravel	
	12.0	12.0				
	12.0	12.0	8.0-10.0	0.0	(8.0-8.6) Grey M-F SAND (WET)	
10	12.0	12.0			(8.6-10.0) Light Brown M-F SAND (WET)	
	12.0	12.0	10.0-12.0	0.0	(10.0-12.0) Same As Above (WET)	
	12.0	12.0				
	12.0	12.0	12.0-14.0	0.0	(12.0-14.0) Same As Above (WET)	
	12.0	12.0				
	12.0	12.0	14.0-16.0	0.0	(14.0-15.0) Same As Above (WET)	
15	12.0	0.0			(15.0-16.0) No Recovery	
					Bottom of Boring at 16.0'	
20						
25						
30						
35						

Well Completion Diagram

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	B10
		Sheet	10 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	4'
Foreman	Gary	Screen Length	
Eagle Scientist	Kristi Gagnon	Screen Slot Size	
Date Start	06/21/18	Date End	06/22/18	Filter Pack Material	
Time Start	0800	Time End	1600	Casing type	
				Cover Type	

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Sample Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-2.0	NR	(0.0-2.0) No Recovery		
	12.0	0.0					
	12.0	0.0	2.0-4.0	1,094	(2.0-3.0) No Recovery		
	12.0	12.0			(3.0-4.0) Light Brown/Grey M-F SAND, C-F gravel, trace silt		
5					Bottom of Boring at 4.0'		
10							
15							
20							
25							
30							
35							

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	B11
		Sheet	11 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	4'
Foreman	Gary	Screen Length	
Eagle Scientist	Kristi Gagnon	Screen Slot Size	
Date Start	06/21/18	Date End	06/22/18	Filter Pack Material	
Time Start	0800	Time End	1600	Casing type	
				Cover Type	

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample: Penetration (inches)	Sample: Recovery (inches)	Sample: Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-2.0	NR	(0.0-2.0) No Recovery		
	12.0	0.0					
	12.0	6.0	2.0-4.0	55.1	(2.6-3.0) Dark Brown/Grey M-F SAND, C-F gravel, trace silt		
	12.0	12.0			(3.0-3.2) Black M-F SAND, trace silt (3.0-4.0) Dark Brown/Grey M-F SAND, C-F gravel, trace silt		
5					Bottom of Boring at 4.0'		
10							
15							
20							
25							
30							
35							

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	HA-1
		Sheet	12 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	2'
Foreman	Gary	Screen Length	
Eagle Scientist	Kristi Gagnon	Screen Slot Size	
Date Start	06/21/18	Filter Pack Material	
Date End	06/22/18	Casing type	
Time Start	0800	Cover Type	
Time End	1600		

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample: Penetration (inches)	Sample: Recovery (inches)	Sample: Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	12.0	0.0-2.0	0.8	(0.0-0.8) CONCRETE (0.8-2.0) Dark Brown, ORGANIC, M-F SAND, C-F gravel		
	12.0	12.0					
	12.0	0.0	2.0-4.0	NR	Bottom of Boring at 2.0'		
	12.0	0.0					
5							
10							
15							
20							
25							
30							
35							

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	HA-2
		Sheet	13 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	2.6'
Foreman	Gary	Screen Length	
Eagle Scientist	Kristi Gagnon	Screen Slot Size	
Date Start	06/21/18	Filter Pack Material	
Date End	06/22/18	Casing type	
Time Start	0800	Cover Type	
Time End	1600		

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample: Penetration (inches)	Sample: Recovery (inches)	Sample: Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	12.0	0.0-2.0	124.0	(0.0-0.8) CONCRETE (0.8-2.0) Dark Brown, ORGANIC, M-F SAND, C-F gravel	Odor detected	
	12.0	12.0					
	12.0	0.6	2.0-4.0	86.0	(2.0-2.6) Same As Above	Odor detected	
	12.0	0.0					
					Bottom of Boring at 2.6'		
5							
10							
15							
20							
25							
30							
35							

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Phase III Site Investigation	Boring No.:	HA-3
		Sheet	14 of 14
		Project No.	18-144.1T1
Project Address:	1 Main Street, East Haddam, Connecticut	Checked By:	JD

		Well Completion Details		Well Diagram
Boring Co.	KROPP Environmental, Contractors Inc.	Completion Depth	2.8'	
Foreman	Gary	Screen Length		Well Screen
Eagle Scientist	Kristi Gagnon	Screen Slot Size		Well Sand
Date Start	06/21/18	Filter Pack Material		Bentonite Seal
Time Start	0800	Casing type		Cuttings
Date End	06/22/18	Cover Type		Cement Grout
Time End	1600			

Sample Depth	Penetration (inches)	Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	12.0	0.0-2.0	13.1	(0.0-0.8) CONCRETE (0.8-1.0) Dark Brown, ORGANIC, M-F SAND, C-F gravel		
	12.0	12.0			(1.0-2.0) Light Brown M-F SAND, silt		
	12.0	0.8	2.0-4.0	55.0	(2.0-2.8) Same As Above	Odor detected	
	12.0	0.0					
5					Bottom of Boring at 2.8'		
10							
15							
20							
25							
30							
35							

NOTES: C = Coarse, M = Medium, F = Fine, NR = No Recovery

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Supplemental Phase III	Boring No.:	B101
	Environmental Site Investigation	Sheet	1 of 11
Project Address:	Former Town Buildings - 1 & 7 Main Street	Project No.	18-144.10T5
	East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental Contractors, Inc.	Completion Depth	*N/A*
Foreman	Gary	Screen Length	*N/A*
Eagle Scientist	Kristi Gagnon	Screen Slot Size	*N/A*
Date Start	10/10/18 Date End 10/10/18	Filter Pack Material	*N/A*
Time Start	0800 Time End 1430	Casing type	*N/A*
		Cover Type	*N/A*

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample: Penetration (inches)	Sample: Recovery (inches)	Sample: Depth (feet)	Sample: PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-1.0	*N/A*	No Recovery		
	12.0	6.0	1.0-3.0	*N/A*	Dark brown, coarse to fine gravelly, coarse to fine SAND - ORGANIC -		
	12.0	6.0			Light brown, coarse to fine gravelly, medium to fine SAND, silt		
	12.0	12.0	3.0-5.0	*N/A*	Light brown, coarse to fine gravelly, medium to fine SAND, silt		
5	12.0	12.0					
	12.0	6.0	5.0-7.0	*N/A*	Light brown, medium to fine SAND, silt		
	12.0	12.0					
					Bottom of Boring at 7.0'	Groundwater at 7.0'	
10							
15							
20							
25							
30							
35							

NOTES: *N/A* = Not Applicable

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Supplemental Phase III	Boring No.:	B102
	Environmental Site Investigation	Sheet	2 of 11
Project Address:	Former Town Buildings - 1 & 7 Main Street	Project No.	18-144.10T5
	East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental Contractors, Inc.	Completion Depth	*N/A*
Foreman	Gary	Screen Length	*N/A*
Eagle Scientist	Kristi Gagnon	Screen Slot Size	*N/A*
Date Start	10/10/18 Date End 10/10/18	Filter Pack Material	*N/A*
Time Start	0800 Time End 1430	Casing type	*N/A*
		Cover Type	*N/A*

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Sample Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-1.0	*N/A*	No Recovery		
	12.0	6.0	1.0-3.0	*N/A*	Dark brown, coarse to fine gravelly, coarse to fine SAND - ORGANIC -		
	12.0	6.0			Light brown, coarse to fine gravelly, coarse to fine SAND, silt		
	12.0	12.0	3.0-5.0	*N/A*	Light brown, medium to fine SAND, silt		
5	12.0	12.0					
	12.0	0.0	5.0-7.0	*N/A*	No Recovery		
	12.0	0.0					
	12.0	12.0	7.0-9.0	*N/A*	Light brown, coarse to fine gravelly, coarse to fine SAND, trace silt		
	12.0	12.0					
10	12.0	12.0	9.0-10.0	*N/A*	(8.0") - Same As Above - (4.0") Light brown, CLAY, silt		
					Bottom of Boring at 10.0'		
15							
20							
25							
30							
35							

NOTES: *N/A* = Not Applicable

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Supplemental Phase III	Boring No.:	B103
	Environmental Site Investigation	Sheet	3 of 11
Project Address:	Former Town Buildings - 1 & 7 Main Street	Project No.	18-144.10T5
	East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental Contractors, Inc.	Completion Depth	*N/A*
Foreman	Gary	Screen Length	*N/A*
Eagle Scientist	Kristi Gagnon	Screen Slot Size	*N/A*
Date Start	10/10/18 Date End 10/10/18	Filter Pack Material	*N/A*
Time Start	0800 Time End 1430	Casing type	*N/A*
		Cover Type	*N/A*

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Sample Depth (feet)	Sample PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-1.0	*N/A*	- No Recovery -		
	12.0	6.0	1.0-3.0	*N/A*	Light brown, medium to fine SAND, silt		
	12.0	6.0					
	12.0	6.0	3.0-5.0	*N/A*	Light brown, fine SAND, silt		
5	12.0	6.0					
	12.0	6.0	5.0-7.0	*N/A*	Light brown, medium to fine gravelly, coarse to fine SAND, silt		
	12.0	6.0					
	12.0	12.0	7.0-9.0	*N/A*	- Same As Above -		
	12.0	12.0					
10	12.0	12.0	9.0-10.0	*N/A*	Light brown/light grey, fine gravelly, medium to fine SAND, silt (WET)	Groundwater at 9.0'	
					Bottom of Boring at 10.0'		
15							
20							
25							
30							
35							

NOTES: *N/A* = Not Applicable

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Supplemental Phase III	Boring No.:	B104
	Environmental Site Investigation	Sheet	4 of 11
Project Address:	Former Town Buildings - 1 & 7 Main Street	Project No.	18-144.10T5
	East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental Contractors, Inc.	Completion Depth	*N/A*
Foreman	Gary	Screen Length	*N/A*
Eagle Scientist	Kristi Gagnon	Screen Slot Size	*N/A*
Date Start	10/10/18 Date End 10/10/18	Filter Pack Material	*N/A*
Time Start	0800 Time End 1430	Casing type	*N/A*
		Cover Type	*N/A*

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Sample Depth (feet)	Sample PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-1.0	*N/A*	- No Recovery -		
	12.0	6.0	1.0-3.0	*N/A*	Dark brown, coarse to fine gravelly, medium to fine SAND - ORGANIC -		
	12.0	12.0			Light brown, medium to fine SAND, silt		
	12.0	12.0	3.0-5.0	*N/A*	Light brown, medium to fine SAND, silt		
5	12.0	12.0					
	12.0	12.0	5.0-6.0	*N/A*	(8.0") - Same As Above - (4.0") Red, medium to fine SAND, silt		
					Bottom of Boring at 6.0'		
10							
15							
20							
25							
30							
35							

NOTES: *N/A* = Not Applicable

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Supplemental Phase III	Boring No.:	B105
	Environmental Site Investigation	Sheet	5 of 11
Project Address:	Former Town Buildings - 1 & 7 Main Street	Project No.	18-144.10T5
	East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental Contractors, Inc.	Completion Depth	*N/A*
Foreman	Gary	Screen Length	*N/A*
Eagle Scientist	Kristi Gagnon	Screen Slot Size	*N/A*
Date Start	10/10/18 Date End 10/10/18	Filter Pack Material	*N/A*
Time Start	0800 Time End 1430	Casing type	*N/A*
		Cover Type	*N/A*

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Sample Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-1.0	*N/A*	- No Recovery -		
	12.0	12.0	1.0-3.0	*N/A*	Dark brown, medium to fine gravelly, medium to fine SAND, trace silt - ORGANIC -		
	12.0	12.0					
	12.0	12.0	3.0-5.0	*N/A*	Light brown, fine gravelly, fine SAND, silt		
5	12.0	12.0					
					Bottom of Boring at 5.0'		
10							
15							
20							
25							
30							
35							

NOTES: *N/A* = Not Applicable

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Supplemental Phase III	Boring No.:	B106
	Environmental Site Investigation	Sheet	6 of 11
Project Address:	Former Town Buildings - 1 & 7 Main Street	Project No.	18-144.10T5
	East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental Contractors, Inc.	Completion Depth	*N/A*
Foreman	Gary	Screen Length	*N/A*
Eagle Scientist	Kristi Gagnon	Screen Slot Size	*N/A*
Date Start	10/10/18 Date End 10/10/18	Filter Pack Material	*N/A*
Time Start	0800 Time End 1430	Casing type	*N/A*
		Cover Type	*N/A*

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Sample Depth (feet)	Sample PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-1.0	*N/A*	- No Recovery -		
	12.0	0.0	1.0-3.0	*N/A*	(3.0") - ASPHALT - (9.0") Light brown, coarse to fine gravelly, medium to fine SAND, Silt		
	12.0	12.0					
	12.0	6.0	3.0-5.0	*N/A*	Light brown, fine gravelly, medium to fine SAND, silt (WET)		
5	12.0	6.0				Groundwater at 4.6'	
	12.0	6.0	5.0-5.6	*N/A*	Light brown, medium to fine gravelly, medium to fine SAND, silt - FILL (bricks) - (WET)		
					Bottom of Boring at 5.6'		
10							
15							
20							
25							
30							
35							

NOTES: *N/A* = Not Applicable

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Supplemental Phase III	Boring No.:	B107
	Environmental Site Investigation	Sheet	7 of 11
Project Address:	Former Town Buildings - 1 & 7 Main Street	Project No.	18-144.10T5
	East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental Contractors, Inc.	Completion Depth	*N/A*
Foreman	Gary	Screen Length	*N/A*
Eagle Scientist	Kristi Gagnon	Screen Slot Size	*N/A*
Date Start	10/10/18 Date End 10/10/18	Filter Pack Material	*N/A*
Time Start	0800 Time End 1430	Casing type	*N/A*
		Cover Type	*N/A*

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-1.0	*N/A*	- No Recovery -		
	12.0	0.0	1.0-3.0	*N/A*	(3.0") - ASPHALT - (9.0") Light brown, coarse to fine gravelly, medium to fine SAND, Silt		
	12.0	12.0					
	12.0	6.0	3.0-5.0	0.0	Light brown, fine gravelly, medium to fine SAND, silt		
5	12.0	6.0					
	12.0	0.0	5.0-7.0	*N/A*	- No Recovery -		
	12.0	0.0					
	12.0	12.0	7.0-9.0	0.0	Light brown/light grey, coarse to fine gravelly, medium to fine SAND, silt		
	12.0	12.0					
10	12.0	12.0	9.0-10.0	0.0	(6.0") - Same As Above - (6.0") Light brown, medium to fine SAND, silt (WET)	Groundwater at 9.6'	
					Bottom of Boring at 10.0'		
15							
20							
25							
30							
35							

NOTES: *N/A* = Not Applicable

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Supplemental Phase III	Boring No.:	B108
	Environmental Site Investigation	Sheet	8 of 11
Project Address:	Former Town Buildings - 1 & 7 Main Street	Project No.	18-144.10T5
	East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental Contractors, Inc.	Completion Depth	*N/A*
Foreman	Gary	Screen Length	*N/A*
Eagle Scientist	Kristi Gagnon	Screen Slot Size	*N/A*
Date Start	10/10/18 Date End 10/10/18	Filter Pack Material	*N/A*
Time Start	0800 Time End 1430	Casing type	*N/A*
		Cover Type	*N/A*

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-1.0	*N/A*	- No Recovery -		
	12.0	12.0	1.0-3.0	*N/A*	(3.0") - ASPHALT - (9.0") Brown, fine gravelly, medium to fine SAND, silt		
	12.0	12.0			Light brown, medium to fine SAND, silt		
	12.0	12.0	3.0-5.0	0.0	Light brown, medium to fine SAND, silt		
5	12.0	12.0					
	12.0	0.0	5.0-7.0	0.0	Light brown/red, medium to fine gravelly, medium to fine SAND, silt		
	12.0	12.0					
	12.0	12.0	7.0-9.0	0.0	Light brown, medium to fine gravelly, medium to fine SAND, silt (WET)		
	12.0	12.0				Groundwater at 8.6'	
10	12.0	12.0	9.0-10.0	0.0	Light brown, medium to fine SAND, silt (WET)		
					Bottom of Boring at 10.0'		
15							
20							
25							
30							
35							

NOTES: *N/A* = Not Applicable

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Supplemental Phase III	Boring No.:	B109
	Environmental Site Investigation	Sheet	9 of 11
Project Address:	Former Town Buildings - 1 & 7 Main Street	Project No.	18-144.10T5
	East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental Contractors, Inc.	Completion Depth	*N/A*
Foreman	Gary	Screen Length	*N/A*
Eagle Scientist	Kristi Gagnon	Screen Slot Size	*N/A*
Date Start	10/10/18 Date End 10/10/18	Filter Pack Material	*N/A*
Time Start	0800 Time End 1430	Casing type	*N/A*
		Cover Type	*N/A*

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-1.0	*N/A*	- No Recovery -		
	12.0	6.0	1.0-3.0	*N/A*	Dark brown, coarse to fine gravelly, coarse to fine SAND, silt		
	12.0	12.0					
	12.0	12.0	3.0-5.0	1.1	Light brown, coarse to fine gravelly, medium to fine SAND, silt		
5	12.0	12.0					
	12.0	0.0	5.0-7.0	0.0	- Same As Above -		
	12.0	12.0					
	12.0	12.0	7.0-9.0	2.0	Light brown, medium to fine SAND, silt (WET)	Groundwater at 8.6'	
	12.0	12.0					
	12.0	12.0	9.0-10.0	1.5	- Same As Above -		
10					Bottom of Boring at 10.0'		
15							
20							
25							
30							
35							

NOTES: *N/A* = Not Applicable

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Supplemental Phase III	Boring No.:	B110
	Environmental Site Investigation	Sheet	10 of 11
Project Address:	Former Town Buildings - 1 & 7 Main Street	Project No.	18-144.10T5
	East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental Contractors, Inc.	Completion Depth	*N/A*
Foreman	Gary	Screen Length	*N/A*
Eagle Scientist	Kristi Gagnon	Screen Slot Size	*N/A*
Date Start	10/10/18 Date End 10/10/18	Filter Pack Material	*N/A*
Time Start	0800 Time End 1430	Casing type	*N/A*
		Cover Type	*N/A*

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-1.0	*N/A*	- No Recovery -		
	12.0	0.0	1.0-3.0	*N/A*	(3.0") - ASPHALT - (9.0") Brown, coarse to fine gravelly, coarse to fine SAND, silt		
	12.0	12.0					
	12.0	12.0	3.0-5.0	0.3	Brown, coarse to fine gravelly, medium to fine SAND, silt		
5	12.0	12.0					
	12.0	12.0	5.0-7.0	0.0	- Same As Above -		
	12.0	12.0					
	12.0	12.0	7.0-9.0	0.0	Light brown, medium to fine SAND, silt (WET)	Groundwater at 8.0'	
	12.0	12.0					
10	12.0	12.0	9.0-10.0	1.5	- Same As Above -		
					Bottom of Boring at 10.0'		
15							
20							
25							
30							
35							

NOTES: *N/A* = Not Applicable

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

Eagle Environmental, Inc.

GEOPROBE BORING LOG

Project Name:	Supplemental Phase III	Boring No.:	B111
	Environmental Site Investigation	Sheet	11 of 11
Project Address:	Former Town Buildings - 1 & 7 Main Street	Project No.	18-144.10T5
	East Haddam, Connecticut	Checked By:	JD

Boring Co.	KROPP Environmental Contractors, Inc.	Completion Depth	*N/A*
Foreman	Gary	Screen Length	*N/A*
Eagle Scientist	Kristi Gagnon	Screen Slot Size	*N/A*
Date Start	10/10/18 Date End 10/10/18	Filter Pack Material	*N/A*
Time Start	0800 Time End 1430	Casing type	*N/A*
		Cover Type	*N/A*

Well Completion Details

Well Diagram

Well Screen
Well Sand
Bentonite Seal
Cuttings
Cement Grout

Depth	Sample Penetration (inches)	Sample Recovery (inches)	Depth (feet)	PID (ppm)	Sample Description & Classification (Modified Burmister)	Notes	Well Completion Diagram
	12.0	0.0	0.0-1.0	*N/A*	- No Recovery -		
	12.0	0.0	1.0-3.0	*N/A*	(3.0") - ASPHALT - (9.0") Brown, coarse to fine gravelly, medium to fine SAND, silt		
	12.0	12.0					
	12.0	12.0	3.0-5.0	1.0	Light brown, medium to fine gravelly, medium to fine SAND, silt		
5	12.0	12.0					
	12.0	0.0	5.0-7.0	1.7	- Same As Above -		
	12.0	12.0					
	12.0	12.0	7.0-9.0	7.6	Light brown, medium to fine SAND, silt (WET)	Groundwater at 8.0'	
	12.0	12.0					
	12.0	12.0	9.0-10.0	4.1	- Same As Above -		
10					Bottom of Boring at 10.0'		
15							
20							
25							
30							
35							

NOTES: *N/A* = Not Applicable

1. Stratification lines represent approximate boundaries between soil types. Transitions may be gradual.
2. Water level readings have been made in the drill holes at times and under conditions stated on this boring log. Fluctuations in the level of groundwater may occur due to other factors than those present at the time measurements are made.

APPENDIX C

SOIL ANALYTICAL RESULTS

PHOENIX
Environmental Laboratories, Inc.

Friday, July 06, 2018

Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Project ID: EAST HADDAM TOWN-1 MAIN ST
Sample ID#s: CA77254 - CA77284

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	8:45
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77254

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B1 S2 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Arsenic	7.58	0.74	mg/Kg	1	06/26/18	MA	SW6010C
Barium	39.6	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Cadmium	< 0.37	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Chromium	30.4	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/26/18	RS	SW7471B
Lead	7.53	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	87		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/25/18	JA/T	SW3545A
Mercury Digestion	Completed				06/26/18	I/I	SW7471B
Extraction for PCB	Completed				06/25/18	BX/VS/KL	SW3540C
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	06/26/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/26/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	99		%	1	06/26/18	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1221	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1232	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1242	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1248	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1254	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1260	ND	370	ug/Kg	10	06/26/18	AW	SW8082A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B1 S2 2-4 FT

Phoenix I.D.: CA77254

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1268	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	109		%	10	06/26/18	AW	30 - 150 %
% TCMX	88		%	10	06/26/18	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1,1-Trichloroethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2-Trichloroethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloropropene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichloropropane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromoethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichlorobenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloroethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloropropane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichlorobenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichloropropane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
1,4-Dichlorobenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
2,2-Dichloropropane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
2-Chlorotoluene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
2-Hexanone	ND	24	ug/Kg	1	06/26/18	HM	SW8260C
2-Isopropyltoluene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
4-Chlorotoluene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
4-Methyl-2-pentanone	ND	24	ug/Kg	1	06/26/18	HM	SW8260C
Acetone	ND	240	ug/Kg	1	06/26/18	HM	SW8260C
Acrylonitrile	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Benzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromobenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromochloromethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromodichloromethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromoform	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromomethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Carbon Disulfide	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Carbon tetrachloride	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Chlorobenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Chloroethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Chloroform	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Chloromethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Dibromochloromethane	ND	2.8	ug/Kg	1	06/26/18	HM	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B1 S2 2-4 FT

Phoenix I.D.: CA77254

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Dichlorodifluoromethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Ethylbenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Hexachlorobutadiene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Isopropylbenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
m&p-Xylene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Methyl Ethyl Ketone	ND	28	ug/Kg	1	06/26/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.4	ug/Kg	1	06/26/18	HM	SW8260C
Methylene chloride	ND	9.4	ug/Kg	1	06/26/18	HM	SW8260C
Naphthalene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
n-Butylbenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
n-Propylbenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
o-Xylene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
p-Isopropyltoluene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
sec-Butylbenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Styrene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
tert-Butylbenzene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Tetrachloroethene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	9.4	ug/Kg	1	06/26/18	HM	SW8260C
Toluene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Total Xylenes	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	9.4	ug/Kg	1	06/26/18	HM	SW8260C
Trichloroethene	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorofluoromethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorotrifluoroethane	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
Vinyl chloride	ND	4.7	ug/Kg	1	06/26/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	91		%	1	06/26/18	HM	70 - 130 %
% Bromofluorobenzene	84		%	1	06/26/18	HM	70 - 130 %
% Dibromofluoromethane	96		%	1	06/26/18	HM	70 - 130 %
% Toluene-d8	86		%	1	06/26/18	HM	70 - 130 %
Field Extraction	Completed				06/21/18		SW5035A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B1 S2 2-4 FT

Phoenix I.D.: CA77254

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	8:50
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77255

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B1 S3 4-6 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	06/26/18	MA	SW6010C
Arsenic	11.2	0.69	mg/Kg	1	06/26/18	MA	SW6010C
Barium	31.6	0.35	mg/Kg	1	06/26/18	MA	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	06/26/18	MA	SW6010C
Chromium	41.5	0.35	mg/Kg	1	06/26/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/26/18	RS	SW7471B
Lead	3.30	0.35	mg/Kg	1	06/26/18	MA	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	95		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/25/18	JA/T	SW3545A
Mercury Digestion	Completed				06/26/18	I/I	SW7471B
Extraction for PCB	Completed				06/25/18	BX/VS/KL	SW3540C
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	06/26/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/26/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	87		%	1	06/26/18	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1221	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1232	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1242	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1248	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1254	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1260	ND	350	ug/Kg	10	06/26/18	AW	SW8082A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B1 S3 4-6 FT

Phoenix I.D.: CA77255

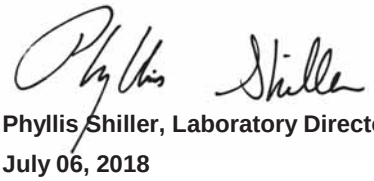
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1268	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	89		%	10	06/26/18	AW	30 - 150 %
% TCMX	96		%	10	06/26/18	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	8:55
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77256

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B1 S4 6-8 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,1,1-Trichloroethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.9	ug/Kg	1	07/05/18	PS	SW8260C
1,1,2-Trichloroethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,1-Dichloroethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,1-Dichloroethene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,1-Dichloropropene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,2,3-Trichlorobenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,2,3-Trichloropropane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,2,4-Trichlorobenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,2,4-Trimethylbenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,2-Dibromoethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,2-Dichlorobenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,2-Dichloroethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,2-Dichloropropane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,3,5-Trimethylbenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,3-Dichlorobenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,3-Dichloropropane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
1,4-Dichlorobenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
2,2-Dichloropropane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
2-Chlorotoluene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
2-Hexanone	ND	16	ug/Kg	1	07/05/18	PS	SW8260C
2-Isopropyltoluene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
4-Chlorotoluene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
4-Methyl-2-pentanone	ND	16	ug/Kg	1	07/05/18	PS	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B1 S4 6-8 FT

Phoenix I.D.: CA77256

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	160	ug/Kg	1	07/05/18	PS	SW8260C
Acrylonitrile	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Benzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Bromobenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Bromochloromethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Bromodichloromethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Bromoform	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Bromomethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Carbon Disulfide	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Carbon tetrachloride	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Chlorobenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Chloroethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Chloroform	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Chloromethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
cis-1,2-Dichloroethene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
cis-1,3-Dichloropropene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Dibromochloromethane	ND	1.9	ug/Kg	1	07/05/18	PS	SW8260C
Dibromomethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Dichlorodifluoromethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Ethylbenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Hexachlorobutadiene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Isopropylbenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
m&p-Xylene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Methyl Ethyl Ketone	ND	19	ug/Kg	1	07/05/18	PS	SW8260C
Methyl t-butyl ether (MTBE)	ND	6.2	ug/Kg	1	07/05/18	PS	SW8260C
Methylene chloride	ND	6.2	ug/Kg	1	07/05/18	PS	SW8260C
Naphthalene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
n-Butylbenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
n-Propylbenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
o-Xylene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
p-Isopropyltoluene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
sec-Butylbenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Styrene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
tert-Butylbenzene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Tetrachloroethene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Tetrahydrofuran (THF)	ND	6.2	ug/Kg	1	07/05/18	PS	SW8260C
Toluene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Total Xylenes	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
trans-1,2-Dichloroethene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
trans-1,3-Dichloropropene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
trans-1,4-dichloro-2-butene	ND	6.2	ug/Kg	1	07/05/18	PS	SW8260C
Trichloroethene	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Trichlorofluoromethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Trichlorotrifluoroethane	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
Vinyl chloride	ND	3.1	ug/Kg	1	07/05/18	PS	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	07/05/18	PS	70 - 130 %
% Bromofluorobenzene	97		%	1	07/05/18	PS	70 - 130 %
% Dibromofluoromethane	94		%	1	07/05/18	PS	70 - 130 %

Ver 1

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B1 S4 6-8 FT

Phoenix I.D.: CA77256

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	102		%	1	07/05/18	PS	70 - 130 %
Field Extraction	Completed				06/21/18		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	9:25
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77257

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B2 S2 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Arsenic	7.80	0.79	mg/Kg	1	06/26/18	MA	SW6010C
Barium	26.0	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Chromium	30.4	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/26/18	RS	SW7471B
Lead	3.91	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	88		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/25/18	JA/T	SW3545A
Mercury Digestion	Completed				06/26/18	I/I	SW7471B
Extraction for PCB	Completed				06/25/18	BX/VS/KL	SW3540C
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	06/26/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/26/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	1	06/26/18	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1221	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1232	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1242	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1248	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1254	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1260	ND	380	ug/Kg	10	06/26/18	AW	SW8082A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B2 S2 2-4 FT

Phoenix I.D.: CA77257

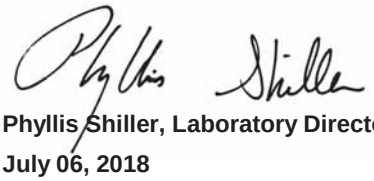
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1268	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	106		%	10	06/26/18	AW	30 - 150 %
% TCMX	111		%	10	06/26/18	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	9:30
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77258

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B2 S3 4-6 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Arsenic	11.9	0.75	mg/Kg	1	06/26/18	MA	SW6010C
Barium	35.8	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Cadmium	< 0.37	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Chromium	45.8	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/26/18	RS	SW7471B
Lead	3.34	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	94		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/25/18	JA/CK	SW3545A
Mercury Digestion	Completed				06/26/18	I/I	SW7471B
Extraction for PCB	Completed				06/25/18	BX/VS/KL	SW3540C
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	06/27/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/27/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	1	06/27/18	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1221	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1232	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1242	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1248	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1254	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1260	ND	350	ug/Kg	10	06/26/18	AW	SW8082A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B2 S3 4-6 FT

Phoenix I.D.: CA77258

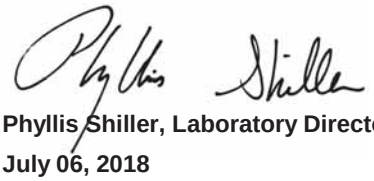
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1268	ND	350	ug/Kg	10	06/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	101		%	10	06/26/18	AW	30 - 150 %
% TCMX	100		%	10	06/26/18	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	9:35
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77259

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B2 S4 6-8 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.3	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloroethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloroethene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloropropene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dibromoethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichloroethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichloropropane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,3-Dichloropropane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
2,2-Dichloropropane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
2-Chlorotoluene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
2-Hexanone	ND	20	ug/Kg	1	06/26/18	JLI	SW8260C
2-Isopropyltoluene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
4-Chlorotoluene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	20	ug/Kg	1	06/26/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B2 S4 6-8 FT

Phoenix I.D.: CA77259

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	200	ug/Kg	1	06/26/18	JLI	SW8260C
Acrylonitrile	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Benzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Bromobenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Bromochloromethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Bromodichloromethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Bromoform	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Bromomethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Carbon Disulfide	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Carbon tetrachloride	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Chlorobenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Chloroethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Chloroform	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Chloromethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Dibromochloromethane	ND	2.3	ug/Kg	1	06/26/18	JLI	SW8260C
Dibromomethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Dichlorodifluoromethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Ethylbenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Hexachlorobutadiene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Isopropylbenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
m&p-Xylene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	23	ug/Kg	1	06/26/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.8	ug/Kg	1	06/26/18	JLI	SW8260C
Methylene chloride	ND	7.8	ug/Kg	1	06/26/18	JLI	SW8260C
Naphthalene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
n-Butylbenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
n-Propylbenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
o-Xylene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
p-Isopropyltoluene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
sec-Butylbenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Styrene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
tert-Butylbenzene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Tetrachloroethene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	7.8	ug/Kg	1	06/26/18	JLI	SW8260C
Toluene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Total Xylenes	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	7.8	ug/Kg	1	06/26/18	JLI	SW8260C
Trichloroethene	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Trichlorofluoromethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
Vinyl chloride	ND	3.9	ug/Kg	1	06/26/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	06/26/18	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	06/26/18	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	06/26/18	JLI	70 - 130 %

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B2 S4 6-8 FT

Phoenix I.D.: CA77259

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	87		%	1	06/26/18	JLI	70 - 130 %
Field Extraction	Completed				06/21/18		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

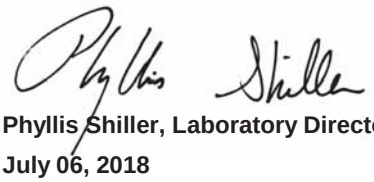
Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	9:40
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77260

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B2 S6 10-12 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloroethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloroethene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloropropene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dibromoethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichloroethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichloropropane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,3-Dichloropropane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
2,2-Dichloropropane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
2-Chlorotoluene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
2-Hexanone	ND	22	ug/Kg	1	06/26/18	JLI	SW8260C
2-Isopropyltoluene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
4-Chlorotoluene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	22	ug/Kg	1	06/26/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B2 S6 10-12 FT

Phoenix I.D.: CA77260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	220	ug/Kg	1	06/26/18	JLI	SW8260C
Acrylonitrile	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Benzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Bromobenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Bromochloromethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Bromodichloromethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Bromoform	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Bromomethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Carbon Disulfide	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Carbon tetrachloride	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Chlorobenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Chloroethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Chloroform	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Chloromethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Dibromochloromethane	ND	2.6	ug/Kg	1	06/26/18	JLI	SW8260C
Dibromomethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Dichlorodifluoromethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Ethylbenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Hexachlorobutadiene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Isopropylbenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
m&p-Xylene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	26	ug/Kg	1	06/26/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.8	ug/Kg	1	06/26/18	JLI	SW8260C
Methylene chloride	ND	8.8	ug/Kg	1	06/26/18	JLI	SW8260C
Naphthalene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
n-Butylbenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
n-Propylbenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
o-Xylene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
p-Isopropyltoluene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
sec-Butylbenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Styrene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
tert-Butylbenzene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Tetrachloroethene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.8	ug/Kg	1	06/26/18	JLI	SW8260C
Toluene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Total Xylenes	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.8	ug/Kg	1	06/26/18	JLI	SW8260C
Trichloroethene	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Trichlorofluoromethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
Vinyl chloride	ND	4.4	ug/Kg	1	06/26/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	06/26/18	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	06/26/18	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	06/26/18	JLI	70 - 130 %

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B2 S6 10-12 FT

Phoenix I.D.: CA77260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	88		%	1	06/26/18	JLI	70 - 130 %
Field Extraction	Completed				06/21/18		SW5035A

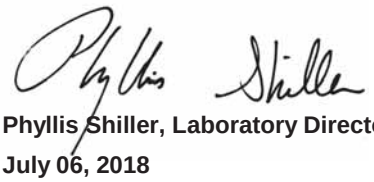
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	10:05
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77261

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B3 S2 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Arsenic	5.76	0.77	mg/Kg	1	06/26/18	MA	SW6010C
Barium	55.6	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Chromium	26.3	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Mercury	0.04	0.03	mg/Kg	1	06/26/18	RS	SW7471B
Lead	11.2	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	83		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/25/18	JA/CK	SW3545A
Mercury Digestion	Completed				06/26/18	I/I	SW7471B
Extraction for PCB	Completed				06/25/18	BX/VS/KL	SW3540C
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	06/27/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/27/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	06/27/18	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	400	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1221	ND	400	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1232	ND	400	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1242	ND	400	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1248	ND	400	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1254	ND	400	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1260	ND	400	ug/Kg	10	06/26/18	AW	SW8082A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B3 S2 2-4 FT

Phoenix I.D.: CA77261

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	400	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1268	ND	400	ug/Kg	10	06/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	101		%	10	06/26/18	AW	30 - 150 %
% TCMX	74		%	10	06/26/18	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,1,1-Trichloroethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2-Trichloroethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloropropene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichloropropane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichlorobenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloroethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloropropane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichlorobenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichloropropane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
1,4-Dichlorobenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
2,2-Dichloropropane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
2-Chlorotoluene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
2-Hexanone	ND	35	ug/Kg	1	06/26/18	HM	SW8260C
2-Isopropyltoluene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
4-Chlorotoluene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
4-Methyl-2-pentanone	ND	35	ug/Kg	1	06/26/18	HM	SW8260C
Acetone	ND	350	ug/Kg	1	06/26/18	HM	SW8260C
Acrylonitrile	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Benzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Bromobenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Bromochloromethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Bromodichloromethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Bromoform	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Bromomethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Carbon Disulfide	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Carbon tetrachloride	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Chlorobenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Chloroethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Chloroform	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Chloromethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Dibromochloromethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B3 S2 2-4 FT

Phoenix I.D.: CA77261

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Dichlorodifluoromethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Ethylbenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Hexachlorobutadiene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Isopropylbenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
m&p-Xylene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Methyl Ethyl Ketone	ND	42	ug/Kg	1	06/26/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	06/26/18	HM	SW8260C
Methylene chloride	ND	14	ug/Kg	1	06/26/18	HM	SW8260C
Naphthalene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
n-Butylbenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
n-Propylbenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
o-Xylene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
p-Isopropyltoluene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
sec-Butylbenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Styrene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
tert-Butylbenzene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Tetrachloroethene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	06/26/18	HM	SW8260C
Toluene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Total Xylenes	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	06/26/18	HM	SW8260C
Trichloroethene	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorofluoromethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorotrifluoroethane	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
Vinyl chloride	ND	7.0	ug/Kg	1	06/26/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	06/26/18	HM	70 - 130 %
% Bromofluorobenzene	89		%	1	06/26/18	HM	70 - 130 %
% Dibromofluoromethane	93		%	1	06/26/18	HM	70 - 130 %
% Toluene-d8	87		%	1	06/26/18	HM	70 - 130 %
Field Extraction	Completed				06/21/18		SW5035A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B3 S2 2-4 FT

Phoenix I.D.: CA77261

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

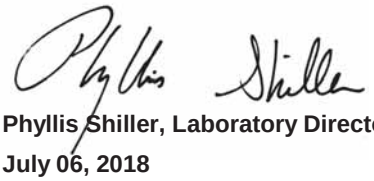
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	10:10
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77262

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B3 S3 4-6 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Arsenic	12.3	0.75	mg/Kg	1	06/26/18	MA	SW6010C
Barium	34.9	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Cadmium	< 0.37	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Chromium	46.5	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/26/18	RS	SW7471B
Lead	8.50	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	88		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/25/18	JA/CK	SW3545A
Mercury Digestion	Completed				06/26/18	I/I	SW7471B
Extraction for PCB	Completed				06/25/18	BX/VS/KL	SW3540C
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	06/27/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/27/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	06/27/18	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1221	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1232	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1242	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1248	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1254	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1260	ND	380	ug/Kg	10	06/26/18	AW	SW8082A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B3 S3 4-6 FT

Phoenix I.D.: CA77262

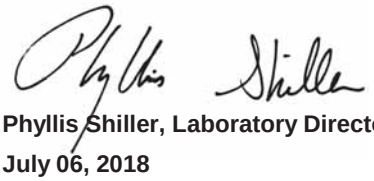
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1268	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	122		%	10	06/26/18	AW	30 - 150 %
% TCMX	79		%	10	06/26/18	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	10:15
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77263

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B3 S4 6-8 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.3	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloroethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloroethene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloropropene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dibromoethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichloroethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichloropropane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,3-Dichloropropane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
2,2-Dichloropropane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
2-Chlorotoluene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
2-Hexanone	ND	11	ug/Kg	1	06/26/18	JLI	SW8260C
2-Isopropyltoluene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
4-Chlorotoluene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	11	ug/Kg	1	06/26/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B3 S4 6-8 FT

Phoenix I.D.: CA77263

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	110	ug/Kg	1	06/26/18	JLI	SW8260C
Acrylonitrile	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Benzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Bromobenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Bromochloromethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Bromodichloromethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Bromoform	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Bromomethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Carbon Disulfide	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Carbon tetrachloride	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Chlorobenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Chloroethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Chloroform	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Chloromethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Dibromochloromethane	ND	1.3	ug/Kg	1	06/26/18	JLI	SW8260C
Dibromomethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Dichlorodifluoromethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Ethylbenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Hexachlorobutadiene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Isopropylbenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
m&p-Xylene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	13	ug/Kg	1	06/26/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	4.3	ug/Kg	1	06/26/18	JLI	SW8260C
Methylene chloride	ND	4.3	ug/Kg	1	06/26/18	JLI	SW8260C
Naphthalene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
n-Butylbenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
n-Propylbenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
o-Xylene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
p-Isopropyltoluene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
sec-Butylbenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Styrene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
tert-Butylbenzene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Tetrachloroethene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	4.3	ug/Kg	1	06/26/18	JLI	SW8260C
Toluene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Total Xylenes	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	4.3	ug/Kg	1	06/26/18	JLI	SW8260C
Trichloroethene	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Trichlorofluoromethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Vinyl chloride	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	06/26/18	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	06/26/18	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	06/26/18	JLI	70 - 130 %

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B3 S4 6-8 FT

Phoenix I.D.: CA77263

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	87		%	1	06/26/18	JLI	70 - 130 %
Field Extraction	Completed				06/21/18		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	11:05
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77264

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B4 S2 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.90	0.68	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	92		%		06/25/18	Q	SW846-%Solid
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	11:10
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77265

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B4 S3 4-6 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	12.5	0.71	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	90		%		06/25/18	Q	SW846-%Solid
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	11:25
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77266

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B5 S2 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.04	0.64	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	97		%		06/25/18	Q	SW846-%Solid
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	11:30
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77267

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B5 S3 4-6 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	15.8	0.83	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	81		%		06/25/18	Q	SW846-%Solid
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	11:45
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77268

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B6 S2 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	9.54	0.68	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	87		%		06/25/18	Q	SW846-%Solid
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	11:50
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77269

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B6 S3 4-6 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	14.6	0.63	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	95		%		06/25/18	Q	SW846-%Solid
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	12:55
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77270

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B7 S2 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.58	0.69	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	96		%		06/25/18	Q	SW846-%Solid
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	13:10
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77271

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B7A S4 6-8 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.47	0.78	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	87		%		06/25/18	Q	SW846-%Solid
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	13:35
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77272

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B8 S2 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	34.8	0.33	mg/Kg	1	06/26/18	MA	SW6010C
SPLP Lead	0.023	0.010	mg/L	1	06/26/18	MA	SW6010C
SPLP Metals Digestion	Completed				06/26/18	I/I	SW3010A
Percent Solid	90		%		06/25/18	Q	SW846-%Solid
SPLP Extraction for Metals	Completed				06/25/18	I	SW1312
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	14:00
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77273

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B9 S3 4-6 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	38.4	0.33	mg/Kg	1	06/26/18	MA	SW6010C
SPLP Lead	< 0.010	0.010	mg/L	1	06/26/18	MA	SW6010C
SPLP Metals Digestion	Completed				06/26/18	I/I	SW3010A
Percent Solid	94		%		06/25/18	Q	SW846-%Solid
SPLP Extraction for Metals	Completed				06/25/18	I	SW1312
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	14:05
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77274

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B9 S5 8-10 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/26/18	BA/CK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	280	64	mg/Kg	1	06/27/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/27/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	81		%	1	06/27/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C18 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/22/18	11:35
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77275

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B10 S2 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	06/26/18	MA	SW6010C
Arsenic	16.9	0.72	mg/Kg	1	06/26/18	MA	SW6010C
Barium	65.5	0.36	mg/Kg	1	06/26/18	MA	SW6010C
Cadmium	0.44	0.36	mg/Kg	1	06/26/18	MA	SW6010C
Chromium	60.3	0.36	mg/Kg	1	06/26/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/26/18	RS	SW7471B
Lead	35.7	0.36	mg/Kg	1	06/26/18	MA	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/26/18	MA	SW6010C
SPLP Lead	< 0.010	0.010	mg/L	1	06/26/18	MA	SW6010C
SPLP Metals Digestion	Completed				06/26/18	I/I	SW3010A
Percent Solid	92		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/25/18	JA/CK	SW3545A
Mercury Digestion	Completed				06/26/18	I/I	SW7471B
Extraction for PCB	Completed				06/25/18	BX/VS/KL	SW3540C
SPLP Extraction for Metals	Completed				06/25/18	I	SW1312
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	06/27/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/27/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	76		%	1	06/27/18	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	360	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1221	ND	360	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1232	ND	360	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1242	ND	360	ug/Kg	10	06/26/18	AW	SW8082A

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	360	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1254	ND	360	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1260	ND	360	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1262	ND	360	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1268	ND	360	ug/Kg	10	06/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	96		%	10	06/26/18	AW	30 - 150 %
% TCMX	88		%	10	06/26/18	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,1,1-Trichloroethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2-Trichloroethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloropropene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichloropropane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromoethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichlorobenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloroethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloropropane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichlorobenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichloropropane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
1,4-Dichlorobenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
2,2-Dichloropropane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
2-Chlorotoluene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
2-Hexanone	ND	21	ug/Kg	1	06/26/18	HM	SW8260C
2-Isopropyltoluene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
4-Chlorotoluene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
4-Methyl-2-pentanone	ND	21	ug/Kg	1	06/26/18	HM	SW8260C
Acetone	ND	210	ug/Kg	1	06/26/18	HM	SW8260C
Acrylonitrile	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Benzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Bromobenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Bromochloromethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Bromodichloromethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Bromoform	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Bromomethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Carbon Disulfide	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Carbon tetrachloride	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Chlorobenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Chloroethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Chloroform	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Chloromethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B10 S2 2-4 FT

Phoenix I.D.: CA77275

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,2-Dichloroethene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Dibromochloromethane	ND	2.5	ug/Kg	1	06/26/18	HM	SW8260C
Dibromomethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Dichlorodifluoromethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Ethylbenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Hexachlorobutadiene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Isopropylbenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
m&p-Xylene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Methyl Ethyl Ketone	ND	25	ug/Kg	1	06/26/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.4	ug/Kg	1	06/26/18	HM	SW8260C
Methylene chloride	ND	8.4	ug/Kg	1	06/26/18	HM	SW8260C
Naphthalene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
n-Butylbenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
n-Propylbenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
o-Xylene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
p-Isopropyltoluene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
sec-Butylbenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Styrene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
tert-Butylbenzene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Tetrachloroethene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	8.4	ug/Kg	1	06/26/18	HM	SW8260C
Toluene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Total Xylenes	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	8.4	ug/Kg	1	06/26/18	HM	SW8260C
Trichloroethene	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorofluoromethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorotrifluoroethane	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
Vinyl chloride	ND	4.2	ug/Kg	1	06/26/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	06/26/18	HM	70 - 130 %
% Bromofluorobenzene	91		%	1	06/26/18	HM	70 - 130 %
% Dibromofluoromethane	92		%	1	06/26/18	HM	70 - 130 %
% Toluene-d8	86		%	1	06/26/18	HM	70 - 130 %
Field Extraction	Completed				06/22/18		SW5035A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B10 S2 2-4 FT

Phoenix I.D.: CA77275

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/22/18	11:50
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77276

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B11 S2 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Arsenic	42.2	0.75	mg/Kg	1	06/26/18	MA	SW6010C
Barium	209	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Cadmium	5.23	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Chromium	120	0.37	mg/Kg	1	06/26/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/26/18	RS	SW7471B
Lead	1840	37	mg/Kg	100	06/27/18	MA	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/26/18	MA	SW6010C
SPLP Lead	0.205	0.010	mg/L	1	06/26/18	MA	SW6010C
SPLP Metals Digestion	Completed				06/26/18	I/I	SW3010A
Percent Solid	94		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/25/18	JA/CK	SW3545A
Mercury Digestion	Completed				06/26/18	I/I	SW7471B
Extraction for PCB	Completed				06/25/18	BX/VS/KL	SW3540C
SPLP Extraction for Metals	Completed				06/25/18	I	SW1312
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	260	mg/Kg	5	06/27/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	06/27/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	87		%	5	06/27/18	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1221	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1232	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1242	ND	350	ug/Kg	10	06/27/18	AW	SW8082A

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1254	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1260	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1262	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1268	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	77		%	10	06/27/18	AW	30 - 150 %
% TCMX	84		%	10	06/27/18	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1,1-Trichloroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.2	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2-Trichloroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloropropene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichloropropane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromoethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloropropane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichloropropane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,4-Dichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
2,2-Dichloropropane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
2-Chlorotoluene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
2-Hexanone	ND	18	ug/Kg	1	06/26/18	HM	SW8260C
2-Isopropyltoluene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
4-Chlorotoluene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
4-Methyl-2-pentanone	ND	18	ug/Kg	1	06/26/18	HM	SW8260C
Acetone	ND	180	ug/Kg	1	06/26/18	HM	SW8260C
Acrylonitrile	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Benzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromochloromethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromodichloromethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromoform	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromomethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Carbon Disulfide	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Carbon tetrachloride	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Chlorobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Chloroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Chloroform	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Chloromethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B11 S2 2-4 FT

Phoenix I.D.: CA77276

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,2-Dichloroethene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Dibromochloromethane	ND	2.2	ug/Kg	1	06/26/18	HM	SW8260C
Dibromomethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Dichlorodifluoromethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Ethylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Hexachlorobutadiene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Isopropylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
m&p-Xylene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Methyl Ethyl Ketone	ND	22	ug/Kg	1	06/26/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.3	ug/Kg	1	06/26/18	HM	SW8260C
Methylene chloride	ND	7.3	ug/Kg	1	06/26/18	HM	SW8260C
Naphthalene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
n-Butylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
n-Propylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
o-Xylene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
p-Isopropyltoluene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
sec-Butylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Styrene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
tert-Butylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Tetrachloroethene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	7.3	ug/Kg	1	06/26/18	HM	SW8260C
Toluene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Total Xylenes	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	7.3	ug/Kg	1	06/26/18	HM	SW8260C
Trichloroethene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorofluoromethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorotrifluoroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Vinyl chloride	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	1	06/26/18	HM	70 - 130 %
% Bromofluorobenzene	85		%	1	06/26/18	HM	70 - 130 %
% Dibromofluoromethane	96		%	1	06/26/18	HM	70 - 130 %
% Toluene-d8	86		%	1	06/26/18	HM	70 - 130 %
Field Extraction	Completed				06/22/18		SW5035A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: B11 S2 2-4 FT

Phoenix I.D.: CA77276

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/22/18	9:10
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77277

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-1 S1 0-2 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	06/26/18	MA	SW6010C
Arsenic	16.6	0.69	mg/Kg	1	06/26/18	MA	SW6010C
Barium	3850	3.5	mg/Kg	10	06/27/18	MA	SW6010C
Cadmium	2.63	0.35	mg/Kg	1	06/26/18	MA	SW6010C
Chromium	301	3.5	mg/Kg	10	06/27/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/26/18	RS	SW7471B
Lead	2190	35	mg/Kg	100	06/27/18	MA	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	90		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/25/18	JA/CK	SW3545A
Mercury Digestion	Completed				06/26/18	I/I	SW7471B
Extraction for PCB	Completed				06/25/18	BX/VS/KL	SW3540C
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	06/27/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/27/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	06/27/18	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1221	ND	370	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1232	ND	370	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1242	ND	370	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1248	ND	370	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1254	ND	370	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1260	ND	370	ug/Kg	10	06/27/18	AW	SW8082A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-1 S1 0-2 FT

Phoenix I.D.: CA77277

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	370	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1268	ND	370	ug/Kg	10	06/27/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	90		%	10	06/27/18	AW	30 - 150 %
% TCMX	94		%	10	06/27/18	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1,1-Trichloroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.2	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2-Trichloroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloropropene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichloropropane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromoethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloropropane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichloropropane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
1,4-Dichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
2,2-Dichloropropane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
2-Chlorotoluene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
2-Hexanone	ND	18	ug/Kg	1	06/26/18	HM	SW8260C
2-Isopropyltoluene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
4-Chlorotoluene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
4-Methyl-2-pentanone	ND	18	ug/Kg	1	06/26/18	HM	SW8260C
Acetone	ND	180	ug/Kg	1	06/26/18	HM	SW8260C
Acrylonitrile	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Benzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromochloromethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromodichloromethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromoform	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Bromomethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Carbon Disulfide	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Carbon tetrachloride	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Chlorobenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Chloroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Chloroform	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Chloromethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Dibromochloromethane	ND	2.2	ug/Kg	1	06/26/18	HM	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-1 S1 0-2 FT

Phoenix I.D.: CA77277

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Dichlorodifluoromethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Ethylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Hexachlorobutadiene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Isopropylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
m&p-Xylene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Methyl Ethyl Ketone	ND	22	ug/Kg	1	06/26/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.3	ug/Kg	1	06/26/18	HM	SW8260C
Methylene chloride	ND	7.3	ug/Kg	1	06/26/18	HM	SW8260C
Naphthalene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
n-Butylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
n-Propylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
o-Xylene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
p-Isopropyltoluene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
sec-Butylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Styrene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
tert-Butylbenzene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Tetrachloroethene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	7.3	ug/Kg	1	06/26/18	HM	SW8260C
Toluene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Total Xylenes	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	7.3	ug/Kg	1	06/26/18	HM	SW8260C
Trichloroethene	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorofluoromethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorotrifluoroethane	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
Vinyl chloride	ND	3.7	ug/Kg	1	06/26/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	06/26/18	HM	70 - 130 %
% Bromofluorobenzene	90		%	1	06/26/18	HM	70 - 130 %
% Dibromofluoromethane	96		%	1	06/26/18	HM	70 - 130 %
% Toluene-d8	87		%	1	06/26/18	HM	70 - 130 %
Field Extraction	Completed				06/22/18		SW5035A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-1 S1 0-2 FT

Phoenix I.D.: CA77277

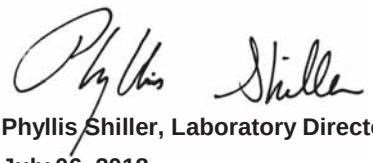
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/22/18	9:50
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77278

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-2 S1 0-2 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	06/26/18	MA	SW6010C
Arsenic	16.2	0.71	mg/Kg	1	06/26/18	MA	SW6010C
Barium	90.4	0.35	mg/Kg	1	06/26/18	MA	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	06/26/18	MA	SW6010C
Chromium	72.1	0.35	mg/Kg	1	06/26/18	MA	SW6010C
Mercury	0.03	0.03	mg/Kg	1	06/26/18	RS	SW7471B
Lead	23.7	0.35	mg/Kg	1	06/26/18	MA	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	87		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/25/18	JA/T	SW3545A
Mercury Digestion	Completed				06/26/18	I/I	SW7471B
Extraction for PCB	Completed				06/25/18	BX/VS/KL	SW3540C
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	06/26/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/26/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	101		%	1	06/26/18	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1221	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1232	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1242	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1248	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1254	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1260	ND	380	ug/Kg	10	06/26/18	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1268	ND	380	ug/Kg	10	06/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	93		%	10	06/26/18	AW	30 - 150 %
% TCMX	86		%	10	06/26/18	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,1,1-Trichloroethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.1	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2-Trichloroethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloropropene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichloropropane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromoethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichlorobenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloroethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloropropane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichlorobenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichloropropane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
1,4-Dichlorobenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
2,2-Dichloropropane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
2-Chlorotoluene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
2-Hexanone	ND	18	ug/Kg	1	06/26/18	HM	SW8260C
2-Isopropyltoluene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
4-Chlorotoluene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
4-Methyl-2-pentanone	ND	18	ug/Kg	1	06/26/18	HM	SW8260C
Acetone	ND	180	ug/Kg	1	06/26/18	HM	SW8260C
Acrylonitrile	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Benzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Bromobenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Bromochloromethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Bromodichloromethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Bromoform	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Bromomethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Carbon Disulfide	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Carbon tetrachloride	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Chlorobenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Chloroethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Chloroform	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Chloromethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Dibromochloromethane	ND	2.1	ug/Kg	1	06/26/18	HM	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-2 S1 0-2 FT

Phoenix I.D.: CA77278

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Dichlorodifluoromethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Ethylbenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Hexachlorobutadiene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Isopropylbenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
m&p-Xylene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Methyl Ethyl Ketone	ND	21	ug/Kg	1	06/26/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.1	ug/Kg	1	06/26/18	HM	SW8260C
Methylene chloride	ND	7.1	ug/Kg	1	06/26/18	HM	SW8260C
Naphthalene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
n-Butylbenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
n-Propylbenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
o-Xylene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
p-Isopropyltoluene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
sec-Butylbenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Styrene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
tert-Butylbenzene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Tetrachloroethene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	7.1	ug/Kg	1	06/26/18	HM	SW8260C
Toluene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Total Xylenes	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	7.1	ug/Kg	1	06/26/18	HM	SW8260C
Trichloroethene	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorofluoromethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorotrifluoroethane	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
Vinyl chloride	ND	3.6	ug/Kg	1	06/26/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	06/26/18	HM	70 - 130 %
% Bromofluorobenzene	88		%	1	06/26/18	HM	70 - 130 %
% Dibromofluoromethane	96		%	1	06/26/18	HM	70 - 130 %
% Toluene-d8	88		%	1	06/26/18	HM	70 - 130 %
Field Extraction	Completed				06/22/18		SW5035A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-2 S1 0-2 FT

Phoenix I.D.: CA77278

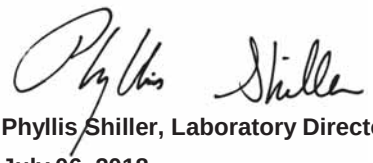
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	9:55
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77279

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-2 S2 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Arsenic	14.7	0.77	mg/Kg	1	06/26/18	MA	SW6010C
Barium	76.9	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Chromium	71.0	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Mercury	0.03	0.03	mg/Kg	1	06/26/18	RS	SW7471B
Lead	30.1	0.39	mg/Kg	1	06/26/18	MA	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	90		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/25/18	JA/CK	SW3545A
Mercury Digestion	Completed				06/26/18	I/I	SW7471B
Extraction for PCB	Completed				06/25/18	BX/VS/KL	SW3540C
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	06/27/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/27/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	06/27/18	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1221	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1232	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1242	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1248	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1254	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1260	ND	370	ug/Kg	10	06/26/18	AW	SW8082A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-2 S2 2-4 FT

Phoenix I.D.: CA77279

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
PCB-1268	ND	370	ug/Kg	10	06/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	85		%	10	06/26/18	AW	30 - 150 %
% TCMX	68		%	10	06/26/18	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,1,1-Trichloroethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.3	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2-Trichloroethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloropropene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichloropropane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromoethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichlorobenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloroethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloropropane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichlorobenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichloropropane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
1,4-Dichlorobenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
2,2-Dichloropropane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
2-Chlorotoluene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
2-Hexanone	ND	19	ug/Kg	1	06/26/18	HM	SW8260C
2-Isopropyltoluene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
4-Chlorotoluene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
4-Methyl-2-pentanone	ND	19	ug/Kg	1	06/26/18	HM	SW8260C
Acetone	ND	190	ug/Kg	1	06/26/18	HM	SW8260C
Acrylonitrile	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Benzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Bromobenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Bromochloromethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Bromodichloromethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Bromoform	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Bromomethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Carbon Disulfide	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Carbon tetrachloride	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Chlorobenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Chloroethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Chloroform	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Chloromethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Dibromochloromethane	ND	2.3	ug/Kg	1	06/26/18	HM	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-2 S2 2-4 FT

Phoenix I.D.: CA77279

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Dichlorodifluoromethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Ethylbenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Hexachlorobutadiene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Isopropylbenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
m&p-Xylene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Methyl Ethyl Ketone	ND	23	ug/Kg	1	06/26/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.7	ug/Kg	1	06/26/18	HM	SW8260C
Methylene chloride	ND	7.7	ug/Kg	1	06/26/18	HM	SW8260C
Naphthalene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
n-Butylbenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
n-Propylbenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
o-Xylene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
p-Isopropyltoluene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
sec-Butylbenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Styrene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
tert-Butylbenzene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Tetrachloroethene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	7.7	ug/Kg	1	06/26/18	HM	SW8260C
Toluene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Total Xylenes	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	7.7	ug/Kg	1	06/26/18	HM	SW8260C
Trichloroethene	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorofluoromethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorotrifluoroethane	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
Vinyl chloride	ND	3.8	ug/Kg	1	06/26/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	06/26/18	HM	70 - 130 %
% Bromofluorobenzene	92		%	1	06/26/18	HM	70 - 130 %
% Dibromofluoromethane	95		%	1	06/26/18	HM	70 - 130 %
% Toluene-d8	88		%	1	06/26/18	HM	70 - 130 %
Field Extraction	Completed				06/21/18		SW5035A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-2 S2 2-4 FT

Phoenix I.D.: CA77279

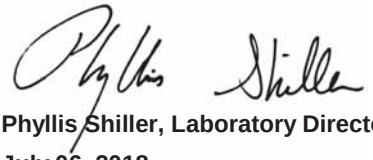
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/22/18	10:50
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77280

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-3 S2 2-4 FT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	06/26/18	MA	SW6010C
Arsenic	8.01	0.76	mg/Kg	1	06/26/18	MA	SW6010C
Barium	29.5	0.38	mg/Kg	1	06/26/18	MA	SW6010C
Cadmium	< 0.38	0.38	mg/Kg	1	06/26/18	MA	SW6010C
Chromium	24.0	0.38	mg/Kg	1	06/26/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/26/18	RS	SW7471B
Lead	4.39	0.38	mg/Kg	1	06/26/18	MA	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/26/18	MA	SW6010C
Percent Solid	94		%		06/25/18	Q	SW846-%Solid
Extraction of CT ETPH	Completed				06/25/18	JA/CK	SW3545A
Mercury Digestion	Completed				06/26/18	I/I	SW7471B
Extraction for PCB	Completed				06/25/18	BX/VS/KL	SW3540C
Total Metals Digest	Completed				06/25/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	06/27/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/27/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	76		%	1	06/27/18	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1221	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1232	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1242	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1248	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1254	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1260	ND	350	ug/Kg	10	06/27/18	AW	SW8082A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-3 S2 2-4 FT

Phoenix I.D.: CA77280

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
PCB-1268	ND	350	ug/Kg	10	06/27/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	70		%	10	06/27/18	AW	30 - 150 %
% TCMX	58		%	10	06/27/18	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,1,1-Trichloroethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	06/26/18	HM	SW8260C
1,1,2-Trichloroethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloroethene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,1-Dichloropropene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,2,3-Trichloropropane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dibromoethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichlorobenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloroethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,2-Dichloropropane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichlorobenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,3-Dichloropropane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
1,4-Dichlorobenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
2,2-Dichloropropane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
2-Chlorotoluene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
2-Hexanone	ND	22	ug/Kg	1	06/26/18	HM	SW8260C
2-Isopropyltoluene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
4-Chlorotoluene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
4-Methyl-2-pentanone	ND	22	ug/Kg	1	06/26/18	HM	SW8260C
Acetone	ND	220	ug/Kg	1	06/26/18	HM	SW8260C
Acrylonitrile	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Benzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Bromobenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Bromochloromethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Bromodichloromethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Bromoform	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Bromomethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Carbon Disulfide	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Carbon tetrachloride	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Chlorobenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Chloroethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Chloroform	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Chloromethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Dibromochloromethane	ND	2.6	ug/Kg	1	06/26/18	HM	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-3 S2 2-4 FT

Phoenix I.D.: CA77280

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Dichlorodifluoromethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Ethylbenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Hexachlorobutadiene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Isopropylbenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
m&p-Xylene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Methyl Ethyl Ketone	ND	26	ug/Kg	1	06/26/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.7	ug/Kg	1	06/26/18	HM	SW8260C
Methylene chloride	ND	8.7	ug/Kg	1	06/26/18	HM	SW8260C
Naphthalene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
n-Butylbenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
n-Propylbenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
o-Xylene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
p-Isopropyltoluene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
sec-Butylbenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Styrene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
tert-Butylbenzene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Tetrachloroethene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	8.7	ug/Kg	1	06/26/18	HM	SW8260C
Toluene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Total Xylenes	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	8.7	ug/Kg	1	06/26/18	HM	SW8260C
Trichloroethene	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorofluoromethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Trichlorotrifluoroethane	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
Vinyl chloride	ND	4.4	ug/Kg	1	06/26/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	06/26/18	HM	70 - 130 %
% Bromofluorobenzene	93		%	1	06/26/18	HM	70 - 130 %
% Dibromofluoromethane	93		%	1	06/26/18	HM	70 - 130 %
% Toluene-d8	88		%	1	06/26/18	HM	70 - 130 %
Field Extraction	Completed				06/22/18		SW5035A

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: HA-3 S2 2-4 FT

Phoenix I.D.: CA77280

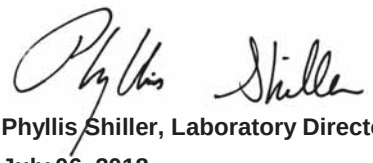
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/22/18	10:51
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77281

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: 062218324

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloroethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloroethene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloropropene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dibromoethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichloroethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichloropropane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,3-Dichloropropane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
2,2-Dichloropropane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
2-Chlorotoluene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
2-Hexanone	ND	18	ug/Kg	1	06/26/18	JLI	SW8260C
2-Isopropyltoluene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
4-Chlorotoluene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	18	ug/Kg	1	06/26/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: 062218324

Phoenix I.D.: CA77281

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	180	ug/Kg	1	06/26/18	JLI	SW8260C
Acrylonitrile	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Benzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Bromobenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Bromochloromethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Bromodichloromethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Bromoform	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Bromomethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Carbon Disulfide	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Carbon tetrachloride	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Chlorobenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Chloroethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Chloroform	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Chloromethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Dibromochloromethane	ND	2.2	ug/Kg	1	06/26/18	JLI	SW8260C
Dibromomethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Dichlorodifluoromethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Ethylbenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Hexachlorobutadiene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Isopropylbenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
m&p-Xylene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	22	ug/Kg	1	06/26/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.3	ug/Kg	1	06/26/18	JLI	SW8260C
Methylene chloride	ND	7.3	ug/Kg	1	06/26/18	JLI	SW8260C
Naphthalene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
n-Butylbenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
n-Propylbenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
o-Xylene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
p-Isopropyltoluene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
sec-Butylbenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Styrene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
tert-Butylbenzene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Tetrachloroethene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	7.3	ug/Kg	1	06/26/18	JLI	SW8260C
Toluene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Total Xylenes	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	7.3	ug/Kg	1	06/26/18	JLI	SW8260C
Trichloroethene	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Trichlorofluoromethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
Vinyl chloride	ND	3.7	ug/Kg	1	06/26/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	06/26/18	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	06/26/18	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	06/26/18	JLI	70 - 130 %

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: 062218324

Phoenix I.D.: CA77281

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	89		%	1	06/26/18	JLI	70 - 130 %
Field Extraction	Completed				06/22/18		SW5035A

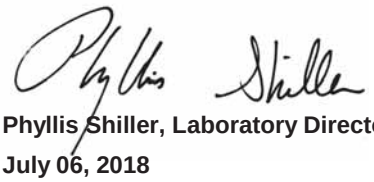
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/21/18	9:41
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77282

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: 06211821012

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.7	ug/Kg	1	06/26/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloroethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloroethene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,1-Dichloropropene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dibromoethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichloroethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,2-Dichloropropane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,3-Dichloropropane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
2,2-Dichloropropane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
2-Chlorotoluene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
2-Hexanone	ND	14	ug/Kg	1	06/26/18	JLI	SW8260C
2-Isopropyltoluene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
4-Chlorotoluene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	14	ug/Kg	1	06/26/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: 06211821012

Phoenix I.D.: CA77282

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	140	ug/Kg	1	06/26/18	JLI	SW8260C
Acrylonitrile	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Benzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Bromobenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Bromochloromethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Bromodichloromethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Bromoform	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Bromomethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Carbon Disulfide	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Carbon tetrachloride	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Chlorobenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Chloroethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Chloroform	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Chloromethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Dibromochloromethane	ND	1.7	ug/Kg	1	06/26/18	JLI	SW8260C
Dibromomethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Dichlorodifluoromethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Ethylbenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Hexachlorobutadiene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Isopropylbenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
m&p-Xylene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	17	ug/Kg	1	06/26/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	5.6	ug/Kg	1	06/26/18	JLI	SW8260C
Methylene chloride	ND	5.6	ug/Kg	1	06/26/18	JLI	SW8260C
Naphthalene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
n-Butylbenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
n-Propylbenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
o-Xylene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
p-Isopropyltoluene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
sec-Butylbenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Styrene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
tert-Butylbenzene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Tetrachloroethene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	5.6	ug/Kg	1	06/26/18	JLI	SW8260C
Toluene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Total Xylenes	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	5.6	ug/Kg	1	06/26/18	JLI	SW8260C
Trichloroethene	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Trichlorofluoromethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
Vinyl chloride	ND	2.8	ug/Kg	1	06/26/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	06/26/18	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	06/26/18	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	06/26/18	JLI	70 - 130 %

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: 06211821012

Phoenix I.D.: CA77282

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	89		%	1	06/26/18	JLI	70 - 130 %
Field Extraction	Completed				06/21/18		SW5035A

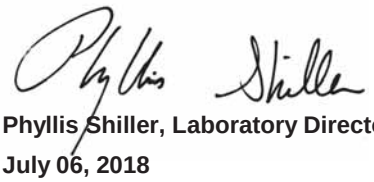
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/22/18	8:00
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77283

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: TRIP BLANK HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	150	ug/Kg	50	06/25/18	HM	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,2-Dibromoethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,2-Dichloroethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	06/25/18	HM	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
4-Chlorotoluene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	06/25/18	HM	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: TRIP BLANK HL

Phoenix I.D.: CA77283

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	13000	ug/Kg	50	06/25/18	HM	SW8260C
Acrylonitrile	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Benzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Bromobenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Bromodichloromethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Bromoform	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Bromomethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Chloroethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Chloroform	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Chloromethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Dibromochloromethane	ND	150	ug/Kg	50	06/25/18	HM	SW8260C
Dibromomethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Methyl Ethyl Ketone	ND	1500	ug/Kg	50	06/25/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	500	ug/Kg	50	06/25/18	HM	SW8260C
Methylene chloride	ND	500	ug/Kg	50	06/25/18	HM	SW8260C
Naphthalene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
o-Xylene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Styrene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	06/25/18	HM	SW8260C
Toluene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Total Xylenes	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	06/25/18	HM	SW8260C
Trichloroethene	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	06/25/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	50	06/25/18	HM	70 - 130 %
% Bromofluorobenzene	94		%	50	06/25/18	HM	70 - 130 %
% Dibromofluoromethane	86		%	50	06/25/18	HM	70 - 130 %

Ver 1

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: TRIP BLANK HL

Phoenix I.D.: CA77283

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	50	06/25/18	HM	70 - 130 %
Field Extraction	Completed				06/22/18		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

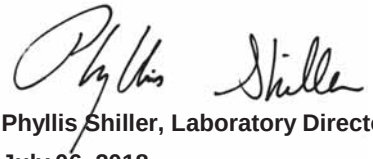
Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KB	06/22/18	8:00
Location Code:	EAGLEENV	Received by:	SW	06/25/18	13:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA77254
Phoenix ID: CA77284

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: TRIP BLANK LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/25/18	HM	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,2-Dibromoethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
2-Hexanone	ND	25	ug/Kg	1	06/25/18	HM	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
4-Chlorotoluene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/25/18	HM	SW8260C

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: TRIP BLANK LL

Phoenix I.D.: CA77284

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	250	ug/Kg	1	06/25/18	HM	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Benzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Bromoform	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Chloroform	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	06/25/18	HM	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/25/18	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/25/18	HM	SW8260C
Methylene chloride	ND	10	ug/Kg	1	06/25/18	HM	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Styrene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/25/18	HM	SW8260C
Toluene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/25/18	HM	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	06/25/18	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	06/25/18	HM	70 - 130 %
% Bromofluorobenzene	92		%	1	06/25/18	HM	70 - 130 %
% Dibromofluoromethane	87		%	1	06/25/18	HM	70 - 130 %

Project ID: EAST HADDAM TOWN-1 MAIN ST
Client ID: TRIP BLANK LL

Phoenix I.D.: CA77284

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	98		%	1	06/25/18	HM	70 - 130 %
Field Extraction	Completed				06/22/18		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

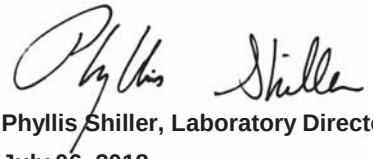
Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
July 06, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 06, 2018

QA/QC Data

SDG I.D.: GCA77254

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 436141 (mg/kg), QC Sample No: CA77187 (CA77254)														
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	81.1	80.6	0.6	95.5			70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 436086 (mg/kg), QC Sample No: CA77255 (CA77254, CA77255, CA77257, CA77258, CA77261, CA77262, CA77264, CA77265, CA77266, CA77267, CA77268, CA77269, CA77270, CA77271, CA77272, CA77273, CA77275, CA77276, CA77277, CA77278)														
ICP Metals - Soil														
Arsenic	BRL	0.70	11.2	9.69	14.5	101			86.4			75 - 125	30	
Barium	BRL	0.35	31.6	27.2	15.0	107			97.9			75 - 125	30	
Cadmium	BRL	0.35	<0.35	<0.32	NC	103			89.8			75 - 125	30	
Chromium	BRL	0.35	41.5	36.1	13.9	109			95.1			75 - 125	30	
Lead	BRL	0.35	3.30	2.09	44.9	100			87.9			75 - 125	30	r
Selenium	BRL	1.4	<1.4	<1.3	NC	111			81.4			75 - 125	30	
Silver	BRL	0.35	<0.35	<0.32	NC	103			91.5			75 - 125	30	
QA/QC Batch 436142 (mg/kg), QC Sample No: CA77255 (CA77255, CA77257, CA77258, CA77261, CA77262, CA77275, CA77276, CA77277, CA77278, CA77279, CA77280)														
Mercury - Soil	BRL	0.03	<0.03	<0.02	NC	87.0	81.8	6.2	86.3			70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 436146 (mg/L), QC Sample No: CA77272 (CA77272, CA77273, CA77275, CA77276)														
ICP Metals - SPLP Extraction														
Lead	BRL	0.010	0.023	0.023	NC	102			101			75 - 125	20	
QA/QC Batch 436087 (mg/kg), QC Sample No: CA77280 (CA77279, CA77280)														
ICP Metals - Soil														
Arsenic	BRL	0.70	8.01	6.45	21.6	92.3			91.8			75 - 125	30	
Barium	BRL	0.35	29.5	30.3	2.70	83.2			97.4			75 - 125	30	
Cadmium	BRL	0.35	<0.38	<0.32	NC	87.1			94.1			75 - 125	30	
Chromium	BRL	0.35	24.0	24.6	2.50	97.3			97.1			75 - 125	30	
Lead	BRL	0.35	4.39	3.44	24.3	91.9			96.5			75 - 125	30	
Selenium	BRL	1.4	<1.5	<1.3	NC	103			80.1			75 - 125	30	
Silver	BRL	0.35	<0.38	<0.32	NC	95.6			100			75 - 125	30	

r = This parameter is outside laboratory RPD specified recovery limits.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 06, 2018

QA/QC Data

SDG I.D.: GCA77254

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 436228 (ug/kg), QC Sample No: CA77250 (CA77254, CA77261, CA77275, CA77276, CA77277, CA77278, CA77279, CA77280)											
Volatiles - Soil											
1,1,1,2-Tetrachloroethane	ND	5.0	88	89	1.1	79	82	3.7	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	84	84	0.0	80	79	1.3	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	106	100	5.8	86	91	5.6	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	105	102	2.9	93	93	0.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	97	97	0.0	87	84	3.5	70 - 130	30	
1,1-Dichloroethene	ND	5.0	101	100	1.0	87	86	1.2	70 - 130	30	
1,1-Dichloropropene	ND	5.0	100	100	0.0	94	92	2.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	108	107	0.9	95	103	8.1	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	95	94	1.1	85	90	5.7	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	100	100	0.0	85	92	7.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	98	97	1.0	88	89	1.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	95	89	6.5	70	80	13.3	70 - 130	30	
1,2-Dibromoethane	ND	5.0	99	96	3.1	87	89	2.3	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	110	108	1.8	99	103	4.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	91	88	3.4	84	85	1.2	70 - 130	30	
1,2-Dichloropropane	ND	5.0	104	100	3.9	92	91	1.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	98	96	2.1	87	88	1.1	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	106	103	2.9	93	94	1.1	70 - 130	30	
1,3-Dichloropropane	ND	5.0	98	95	3.1	87	90	3.4	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	113	110	2.7	97	99	2.0	70 - 130	30	
2,2-Dichloropropane	ND	5.0	82	81	1.2	71	70	1.4	70 - 130	30	
2-Chlorotoluene	ND	5.0	105	104	1.0	93	95	2.1	70 - 130	30	
2-Hexanone	ND	25	84	78	7.4	70	75	6.9	70 - 130	30	
2-Isopropyltoluene	ND	5.0	104	102	1.9	96	99	3.1	70 - 130	30	
4-Chlorotoluene	ND	5.0	104	102	1.9	90	93	3.3	70 - 130	30	
4-Methyl-2-pentanone	ND	25	90	84	6.9	78	82	5.0	70 - 130	30	
Acetone	ND	10	59	57	3.4	55	55	0.0	70 - 130	30	l,m
Acrylonitrile	ND	5.0	92	89	3.3	80	83	3.7	70 - 130	30	
Benzene	ND	1.0	104	103	1.0	95	94	1.1	70 - 130	30	
Bromobenzene	ND	5.0	112	109	2.7	101	100	1.0	70 - 130	30	
Bromochloromethane	ND	5.0	92	89	3.3	82	84	2.4	70 - 130	30	
Bromodichloromethane	ND	5.0	86	84	2.4	73	76	4.0	70 - 130	30	
Bromoform	ND	5.0	73	71	2.8	55	58	5.3	70 - 130	30	m
Bromomethane	ND	5.0	90	89	1.1	82	82	0.0	70 - 130	30	
Carbon Disulfide	ND	5.0	86	86	0.0	68	68	0.0	70 - 130	30	m
Carbon tetrachloride	ND	5.0	79	77	2.6	70	70	0.0	70 - 130	30	
Chlorobenzene	ND	5.0	103	105	1.9	95	96	1.0	70 - 130	30	
Chloroethane	ND	5.0	102	102	0.0	101	97	4.0	70 - 130	30	
Chloroform	ND	5.0	86	86	0.0	76	74	2.7	70 - 130	30	
Chloromethane	ND	5.0	100	101	1.0	99	97	2.0	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,2-Dichloroethene	ND	5.0	102	101	1.0	93	90	3.3	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	98	98	0.0	82	84	2.4	70 - 130	30	
Dibromochloromethane	ND	3.0	87	87	0.0	71	76	6.8	70 - 130	30	
Dibromomethane	ND	5.0	101	100	1.0	91	90	1.1	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	101	100	1.0	105	104	1.0	70 - 130	30	
Ethylbenzene	ND	1.0	101	100	1.0	92	94	2.2	70 - 130	30	
Hexachlorobutadiene	ND	5.0	102	100	2.0	99	102	3.0	70 - 130	30	
Isopropylbenzene	ND	1.0	108	106	1.9	95	96	1.0	70 - 130	30	
m&p-Xylene	ND	2.0	96	95	1.0	87	89	2.3	70 - 130	30	
Methyl ethyl ketone	ND	5.0	78	73	6.6	65	71	8.8	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	1.0	85	84	1.2	83	82	1.2	70 - 130	30	
Methylene chloride	ND	5.0	91	89	2.2	82	81	1.2	70 - 130	30	
Naphthalene	ND	5.0	109	109	0.0	92	102	10.3	70 - 130	30	
n-Butylbenzene	ND	1.0	105	105	0.0	90	94	4.3	70 - 130	30	
n-Propylbenzene	ND	1.0	107	106	0.9	94	96	2.1	70 - 130	30	
o-Xylene	ND	2.0	100	102	2.0	90	93	3.3	70 - 130	30	
p-Isopropyltoluene	ND	1.0	104	103	1.0	91	94	3.2	70 - 130	30	
sec-Butylbenzene	ND	1.0	105	103	1.9	94	96	2.1	70 - 130	30	
Styrene	ND	5.0	92	93	1.1	82	84	2.4	70 - 130	30	
tert-Butylbenzene	ND	1.0	102	102	0.0	93	94	1.1	70 - 130	30	
Tetrachloroethene	ND	5.0	110	111	0.9	102	102	0.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	89	82	8.2	76	78	2.6	70 - 130	30	
Toluene	ND	1.0	105	104	1.0	97	96	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	99	97	2.0	87	86	1.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	83	79	4.9	68	69	1.5	70 - 130	30	m
trans-1,4-dichloro-2-butene	ND	5.0	92	84	9.1	64	69	7.5	70 - 130	30	m
Trichloroethene	ND	5.0	109	107	1.9	100	100	0.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	84	85	1.2	93	88	5.5	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	93	95	2.1	92	89	3.3	70 - 130	30	
Vinyl chloride	ND	5.0	102	102	0.0	106	105	0.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	104	101	2.9	104	103	1.0	70 - 130	30	
% Bromofluorobenzene	89	%	89	90	1.1	89	91	2.2	70 - 130	30	
% Dibromofluoromethane	93	%	90	90	0.0	92	92	0.0	70 - 130	30	
% Toluene-d8	86	%	103	102	1.0	102	102	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 436073 (ug/Kg), QC Sample No: CA77254 10X (CA77254, CA77255, CA77257, CA77258, CA77261, CA77262, CA77275, CA77276, CA77277, CA77278, CA77279, CA77280)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	170	97	105	7.9	100	101	1.0	40 - 140	30	
PCB-1221	ND	170							40 - 140	30	
PCB-1232	ND	170							40 - 140	30	
PCB-1242	ND	170							40 - 140	30	
PCB-1248	ND	170							40 - 140	30	
PCB-1254	ND	170							40 - 140	30	
PCB-1260	ND	170	89	109	20.2	109	111	1.8	40 - 140	30	
PCB-1262	ND	170							40 - 140	30	
PCB-1268	ND	170							40 - 140	30	
% DCBP (Surrogate Rec)	71	%	90	104	14.4	102	102	0.0	30 - 150	30	
% TCMX (Surrogate Rec)	75	%	93	100	7.3	84	100	17.4	30 - 150	30	

QA/QC Data

SDG I.D.: GCA77254

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 436099 (mg/Kg), QC Sample No: CA77278 (CA77254, CA77255, CA77257, CA77258, CA77261, CA77262, CA77275, CA77276, CA77277, CA77278, CA77279, CA77280)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	96	86	11.0	92	103	11.3	60 - 120	30	
% n-Pentacosane	37	%	95	93	2.1	91	101	10.4	50 - 150	30	s
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 436402 (ug/kg), QC Sample No: CA77361 (CA77259, CA77260, CA77263, CA77281, CA77282)											
Volatiles - Soil											
1,1,1,2-Tetrachloroethane	ND	5.0	91	93	2.2	82	85	3.6	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	86	89	3.4	79	86	8.5	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	100	100	0.0	86	84	2.4	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	107	105	1.9	99	102	3.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	96	99	3.1	90	98	8.5	70 - 130	30	
1,1-Dichloroethene	ND	5.0	100	104	3.9	90	100	10.5	70 - 130	30	
1,1-Dichloropropene	ND	5.0	101	101	0.0	98	103	5.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	110	110	0.0	106	110	3.7	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	89	96	7.6	92	94	2.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	102	103	1.0	99	102	3.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	97	99	2.0	97	99	2.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	88	89	1.1	82	87	5.9	70 - 130	30	
1,2-Dibromoethane	ND	5.0	98	97	1.0	93	94	1.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	111	113	1.8	108	112	3.6	70 - 130	30	
1,2-Dichloroethane	ND	5.0	96	97	1.0	83	85	2.4	70 - 130	30	
1,2-Dichloropropane	ND	5.0	100	102	2.0	99	103	4.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	96	98	2.1	95	99	4.1	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	105	107	1.9	104	104	0.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	97	94	3.1	92	94	2.2	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	112	114	1.8	108	112	3.6	70 - 130	30	
2,2-Dichloropropane	ND	5.0	81	85	4.8	70	78	10.8	70 - 130	30	
2-Chlorotoluene	ND	5.0	104	106	1.9	103	105	1.9	70 - 130	30	
2-Hexanone	ND	25	79	75	5.2	74	78	5.3	70 - 130	30	
2-Isopropyltoluene	ND	5.0	103	105	1.9	101	106	4.8	70 - 130	30	
4-Chlorotoluene	ND	5.0	102	103	1.0	102	103	1.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	87	85	2.3	79	84	6.1	70 - 130	30	
Acetone	ND	10	61	62	1.6	51	55	7.5	70 - 130	30	l,m
Acrylonitrile	ND	5.0	83	88	5.8	88	92	4.4	70 - 130	30	
Benzene	ND	1.0	103	105	1.9	102	107	4.8	70 - 130	30	
Bromobenzene	ND	5.0	113	114	0.9	105	109	3.7	70 - 130	30	
Bromochloromethane	ND	5.0	93	95	2.1	88	91	3.4	70 - 130	30	
Bromodichloromethane	ND	5.0	88	91	3.4	75	78	3.9	70 - 130	30	
Bromoform	ND	5.0	72	73	1.4	56	58	3.5	70 - 130	30	m
Bromomethane	ND	5.0	93	98	5.2	85	81	4.8	70 - 130	30	
Carbon Disulfide	ND	5.0	82	86	4.8	65	73	11.6	70 - 130	30	m
Carbon tetrachloride	ND	5.0	79	83	4.9	70	75	6.9	70 - 130	30	
Chlorobenzene	ND	5.0	106	107	0.9	102	106	3.8	70 - 130	30	
Chloroethane	ND	5.0	100	104	3.9	104	103	1.0	70 - 130	30	
Chloroform	ND	5.0	87	91	4.5	77	82	6.3	70 - 130	30	
Chloromethane	ND	5.0	98	104	5.9	98	105	6.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	100	105	4.9	100	106	5.8	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	98	100	2.0	88	92	4.4	70 - 130	30	

QA/QC Data

SDG I.D.: GCA77254

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Dibromochloromethane	ND	3.0	90	90	0.0	75	76	1.3	70 - 130	30	
Dibromomethane	ND	5.0	103	104	1.0	93	97	4.2	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	103	108	4.7	98	104	5.9	70 - 130	30	
Ethylbenzene	ND	1.0	101	103	2.0	100	103	3.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	103	106	2.9	103	110	6.6	70 - 130	30	
Isopropylbenzene	ND	1.0	105	107	1.9	104	108	3.8	70 - 130	30	
m&p-Xylene	ND	2.0	97	96	1.0	94	97	3.1	70 - 130	30	
Methyl ethyl ketone	ND	5.0	71	71	0.0	69	74	7.0	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	1.0	85	88	3.5	77	81	5.1	70 - 130	30	
Methylene chloride	ND	5.0	88	92	4.4	86	91	5.6	70 - 130	30	
Naphthalene	ND	5.0	107	107	0.0	106	115	8.1	70 - 130	30	
n-Butylbenzene	ND	1.0	103	104	1.0	103	108	4.7	70 - 130	30	
n-Propylbenzene	ND	1.0	104	106	1.9	103	109	5.7	70 - 130	30	
o-Xylene	ND	2.0	102	102	0.0	99	101	2.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	102	105	2.9	102	106	3.8	70 - 130	30	
sec-Butylbenzene	ND	1.0	102	104	1.9	102	108	5.7	70 - 130	30	
Styrene	ND	5.0	94	93	1.1	90	92	2.2	70 - 130	30	
tert-Butylbenzene	ND	1.0	101	103	2.0	99	103	4.0	70 - 130	30	
Tetrachloroethene	ND	5.0	112	114	1.8	109	115	5.4	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	80	81	1.2	82	89	8.2	70 - 130	30	
Toluene	ND	1.0	104	105	1.0	103	108	4.7	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	95	99	4.1	92	101	9.3	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	84	83	1.2	70	72	2.8	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	82	79	3.7	72	77	6.7	70 - 130	30	
Trichloroethene	ND	5.0	110	113	2.7	115	125	8.3	70 - 130	30	
Trichlorofluoromethane	ND	5.0	89	93	4.4	82	79	3.7	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	97	100	3.0	91	98	7.4	70 - 130	30	
Vinyl chloride	ND	5.0	100	108	7.7	105	111	5.6	70 - 130	30	
% 1,2-dichlorobenzene-d4	94	%	102	102	0.0	104	102	1.9	70 - 130	30	
% Bromofluorobenzene	92	%	92	90	2.2	87	86	1.2	70 - 130	30	
% Dibromofluoromethane	96	%	89	95	6.5	88	90	2.2	70 - 130	30	
% Toluene-d8	87	%	102	103	1.0	104	104	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 436226 (ug/kg), QC Sample No: CA77377 (CA77283 (50X) , CA77284)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	119	116	2.6	101	105	3.9	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	105	104	1.0	97	98	1.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	117	113	3.5	105	110	4.7	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	104	103	1.0	96	97	1.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	112	111	0.9	98	100	2.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	112	113	0.9	85	88	3.5	70 - 130	30	
1,1-Dichloropropene	ND	5.0	106	104	1.9	101	101	0.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	102	101	1.0	93	93	0.0	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	112	101	10.3	97	100	3.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	105	101	3.9	96	94	2.1	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	111	107	3.7	102	103	1.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	110	111	0.9	96	97	1.0	70 - 130	30	
1,2-Dibromoethane	ND	5.0	108	107	0.9	99	99	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	108	103	4.7	98	100	2.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	103	102	1.0	92	94	2.2	70 - 130	30	
1,2-Dichloropropane	ND	5.0	106	104	1.9	97	99	2.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCA77254

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,3,5-Trimethylbenzene	ND	1.0	111	107	3.7	103	103	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	110	105	4.7	100	101	1.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	107	105	1.9	99	100	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	107	104	2.8	98	98	0.0	70 - 130	30	
2,2-Dichloropropane	ND	5.0	112	111	0.9	90	85	5.7	70 - 130	30	
2-Chlorotoluene	ND	5.0	108	103	4.7	100	101	1.0	70 - 130	30	
2-Hexanone	ND	25	92	94	2.2	91	94	3.2	70 - 130	30	
2-Isopropyltoluene	ND	5.0	110	106	3.7	106	108	1.9	70 - 130	30	
4-Chlorotoluene	ND	5.0	109	104	4.7	99	101	2.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	97	99	2.0	101	102	1.0	70 - 130	30	
Acetone	ND	10	78	78	0.0	68	71	4.3	70 - 130	30	m
Acrylonitrile	ND	5.0	104	105	1.0	100	98	2.0	70 - 130	30	
Benzene	ND	1.0	103	102	1.0	98	100	2.0	70 - 130	30	
Bromobenzene	ND	5.0	109	104	4.7	99	101	2.0	70 - 130	30	
Bromochloromethane	ND	5.0	101	102	1.0	92	88	4.4	70 - 130	30	
Bromodichloromethane	ND	5.0	108	108	0.0	91	93	2.2	70 - 130	30	
Bromoform	ND	5.0	115	114	0.9	84	91	8.0	70 - 130	30	
Bromomethane	ND	5.0	101	103	2.0	103	100	3.0	70 - 130	30	
Carbon Disulfide	ND	5.0	114	114	0.0	100	103	3.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	111	106	4.6	92	95	3.2	70 - 130	30	
Chlorobenzene	ND	5.0	107	103	3.8	97	100	3.0	70 - 130	30	
Chloroethane	ND	5.0	109	107	1.9	103	104	1.0	70 - 130	30	
Chloroform	ND	5.0	103	102	1.0	87	97	10.9	70 - 130	30	
Chloromethane	ND	5.0	89	90	1.1	92	92	0.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	95	100	5.1	83	83	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	109	108	0.9	94	98	4.2	70 - 130	30	
Dibromochloromethane	ND	3.0	117	115	1.7	93	99	6.3	70 - 130	30	
Dibromomethane	ND	5.0	102	100	2.0	93	94	1.1	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	96	95	1.0	94	95	1.1	70 - 130	30	
Ethylbenzene	ND	1.0	110	105	4.7	100	103	3.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	103	98	5.0	97	96	1.0	70 - 130	30	
Isopropylbenzene	ND	1.0	109	105	3.7	100	103	3.0	70 - 130	30	
m&p-Xylene	ND	2.0	109	106	2.8	101	102	1.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	86	93	7.8	93	85	9.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	112	112	0.0	109	110	0.9	70 - 130	30	
Methylene chloride	ND	5.0	109	108	0.9	94	98	4.2	70 - 130	30	
Naphthalene	ND	5.0	110	107	2.8	102	103	1.0	70 - 130	30	
n-Butylbenzene	ND	1.0	116	111	4.4	108	106	1.9	70 - 130	30	
n-Propylbenzene	ND	1.0	109	104	4.7	102	102	0.0	70 - 130	30	
o-Xylene	ND	2.0	109	105	3.7	101	103	2.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	114	109	4.5	105	106	0.9	70 - 130	30	
sec-Butylbenzene	ND	1.0	117	112	4.4	109	110	0.9	70 - 130	30	
Styrene	ND	5.0	110	108	1.8	102	105	2.9	70 - 130	30	
tert-Butylbenzene	ND	1.0	109	104	4.7	101	104	2.9	70 - 130	30	
Tetrachloroethene	ND	5.0	101	101	0.0	98	99	1.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	95	98	3.1	91	91	0.0	70 - 130	30	
Toluene	ND	1.0	103	102	1.0	99	99	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	113	112	0.9	102	103	1.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	105	104	1.0	89	91	2.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	125	128	2.4	104	106	1.9	70 - 130	30	
Trichloroethene	ND	5.0	104	103	1.0	98	99	1.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	102	100	2.0	94	95	1.1	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	104	107	2.8	86	88	2.3	70 - 130	30	

QA/QC Data

SDG I.D.: GCA77254

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Vinyl chloride	ND	5.0	105	103	1.9	106	106	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	100	98	2.0	99	98	1.0	70 - 130	30	
% Bromofluorobenzene	93	%	99	97	2.0	98	99	1.0	70 - 130	30	
% Dibromofluoromethane	89	%	91	92	1.1	89	89	0.0	70 - 130	30	
% Toluene-d8	98	%	97	97	0.0	97	97	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 436237 (mg/Kg), QC Sample No: CA77650 (CA77274)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	81	80	1.2	85	95	11.1	60 - 120	30	
% n-Pentacosane	62	%	69	69	0.0	68	81	17.4	50 - 150	30	

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 437563 (ug/kg), QC Sample No: CA82652 (CA77256)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	100	99	1.0	84	90	6.9	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	102	100	2.0	83	89	7.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	107	103	3.8	95	97	2.1	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	95	94	1.1	87	92	5.6	70 - 130	30	
1,1-Dichloroethane	ND	5.0	120	117	2.5	88	93	5.5	70 - 130	30	
1,1-Dichloroethene	ND	5.0	106	106	0.0	108	99	8.7	70 - 130	30	
1,1-Dichloropropene	ND	5.0	101	99	2.0	85	91	6.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	101	101	0.0	90	98	8.5	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	102	100	2.0	94	95	1.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	108	106	1.9	92	104	12.2	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	106	104	1.9	91	98	7.4	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	93	90	3.3	80	81	1.2	70 - 130	30	
1,2-Dibromoethane	ND	5.0	99	97	2.0	88	93	5.5	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	104	102	1.9	90	97	7.5	70 - 130	30	
1,2-Dichloroethane	ND	5.0	97	95	2.1	87	91	4.5	70 - 130	30	
1,2-Dichloropropane	ND	5.0	95	94	1.1	85	89	4.6	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	107	104	2.8	90	96	6.5	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	103	101	2.0	87	94	7.7	70 - 130	30	
1,3-Dichloropropane	ND	5.0	101	99	2.0	90	95	5.4	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	104	102	1.9	89	96	7.6	70 - 130	30	
2,2-Dichloropropane	ND	5.0	103	98	5.0	83	88	5.8	70 - 130	30	
2-Chlorotoluene	ND	5.0	103	101	2.0	86	93	7.8	70 - 130	30	
2-Hexanone	ND	25	87	83	4.7	80	79	1.3	70 - 130	30	
2-Isopropyltoluene	ND	5.0	105	104	1.0	90	97	7.5	70 - 130	30	
4-Chlorotoluene	ND	5.0	104	102	1.9	87	94	7.7	70 - 130	30	
4-Methyl-2-pentanone	ND	25	88	86	2.3	84	83	1.2	70 - 130	30	
Acetone	ND	10	71	71	0.0	76	68	11.1	70 - 130	30	m
Acrylonitrile	ND	5.0	107	100	6.8	86	87	1.2	70 - 130	30	
Benzene	ND	1.0	98	96	2.1	84	89	5.8	70 - 130	30	
Bromobenzene	ND	5.0	100	98	2.0	86	92	6.7	70 - 130	30	
Bromochloromethane	ND	5.0	105	102	2.9	89	94	5.5	70 - 130	30	
Bromodichloromethane	ND	5.0	96	95	1.0	78	84	7.4	70 - 130	30	
Bromoform	ND	5.0	92	91	1.1	71	75	5.5	70 - 130	30	
Bromomethane	ND	5.0	147	144	2.1	130	117	10.5	70 - 130	30	l
Carbon Disulfide	ND	5.0	110	107	2.8	96	93	3.2	70 - 130	30	
Carbon tetrachloride	ND	5.0	96	112	15.4	75	81	7.7	70 - 130	30	

QA/QC Data

SDG I.D.: GCA77254

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chlorobenzene	ND	5.0	103	101	2.0	89	95	6.5	70 - 130	30	
Chloroethane	ND	5.0	127	125	1.6	133	120	10.3	70 - 130	30	m
Chloroform	ND	5.0	103	100	3.0	86	91	5.6	70 - 130	30	
Chloromethane	ND	5.0	102	98	4.0	84	89	5.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	104	101	2.9	86	89	3.4	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	96	94	2.1	81	87	7.1	70 - 130	30	
Dibromochloromethane	ND	3.0	103	102	1.0	81	88	8.3	70 - 130	30	
Dibromomethane	ND	5.0	96	94	2.1	85	89	4.6	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	120	115	4.3	95	102	7.1	70 - 130	30	
Ethylbenzene	ND	1.0	103	101	2.0	87	94	7.7	70 - 130	30	
Hexachlorobutadiene	ND	5.0	102	100	2.0	87	96	9.8	70 - 130	30	
Isopropylbenzene	ND	1.0	102	100	2.0	85	91	6.8	70 - 130	30	
m&p-Xylene	ND	2.0	105	104	1.0	90	97	7.5	70 - 130	30	
Methyl ethyl ketone	ND	5.0	92	87	5.6	83	83	0.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	111	106	4.6	102	107	4.8	70 - 130	30	
Methylene chloride	ND	5.0	94	91	3.2	98	89	9.6	70 - 130	30	
Naphthalene	ND	5.0	101	100	1.0	98	105	6.9	70 - 130	30	
n-Butylbenzene	ND	1.0	114	111	2.7	95	103	8.1	70 - 130	30	
n-Propylbenzene	ND	1.0	104	101	2.9	88	93	5.5	70 - 130	30	
o-Xylene	ND	2.0	99	99	0.0	86	92	6.7	70 - 130	30	
p-Isopropyltoluene	ND	1.0	108	105	2.8	91	98	7.4	70 - 130	30	
sec-Butylbenzene	ND	1.0	110	108	1.8	93	99	6.3	70 - 130	30	
Styrene	ND	5.0	101	100	1.0	87	94	7.7	70 - 130	30	
tert-Butylbenzene	ND	1.0	102	100	2.0	86	92	6.7	70 - 130	30	
Tetrachloroethene	ND	5.0	96	94	2.1	82	89	8.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	100	96	4.1	94	93	1.1	70 - 130	30	
Toluene	ND	1.0	98	96	2.1	84	90	6.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	104	101	2.9	103	95	8.1	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	94	93	1.1	81	86	6.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	107	104	2.8	86	89	3.4	70 - 130	30	
Trichloroethene	ND	5.0	102	101	1.0	86	93	7.8	70 - 130	30	
Trichlorofluoromethane	ND	5.0	124	121	2.4	121	113	6.8	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	109	106	2.8	108	102	5.7	70 - 130	30	
Vinyl chloride	ND	5.0	113	111	1.8	92	98	6.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	102	101	1.0	102	101	1.0	70 - 130	30	
% Bromofluorobenzene	97	%	97	97	0.0	98	97	1.0	70 - 130	30	
% Dibromofluoromethane	93	%	99	99	0.0	96	98	2.1	70 - 130	30	
% Toluene-d8	102	%	100	101	1.0	101	101	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
July 06, 2018

Friday, July 06, 2018

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCA77254 - EAGLEENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CA77255	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	11.2	0.69	10	10	mg/Kg
CA77258	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	11.9	0.75	10	10	mg/Kg
CA77262	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	12.3	0.75	10	10	mg/Kg
CA77265	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	12.5	0.71	10	10	mg/Kg
CA77267	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	15.8	0.83	10	10	mg/Kg
CA77269	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	14.6	0.63	10	10	mg/Kg
CA77272	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.023	0.010	0.015	0.015	mg/L
CA77275	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	16.9	0.72	10	10	mg/Kg
CA77276	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	42.2	0.75	10	10	mg/Kg
CA77276	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	1840	37	400	400	mg/Kg
CA77276	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.205	0.010	0.015	0.015	mg/L
CA77277	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	16.6	0.69	10	10	mg/Kg
CA77277	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	2190	35	400	400	mg/Kg
CA77278	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	16.2	0.71	10	10	mg/Kg
CA77279	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	14.7	0.77	10	10	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Eagle Environmental Inc.

Project Location: EAST HADDAM TOWN-1 MAIN ST ***Project Number:***

Laboratory Sample ID(s): CA77254-CA77284 ***Sampling Date(s):*** 6/21/2018, 6/22/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8082, 8260, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ICP Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☐ Yes ☑ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Phyllis Shiller **Position:** Laboratory Director

Printed Name: Phyllis Shiller **Date:** Friday, July 06, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

July 06, 2018

SDG I.D.: GCA77254

SDG Comments

Metals Analysis:
The client requested a site specific list of elements which is shorter than the 6010 RCP list. For several samples only the RCRA 8 Metals are reported as requested on the chain of custody. For other samples only lead and arsenic are reported.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID1 06/27/18-1 Jeff Bucko, Chemist 06/27/18

CA77276

The initial calibration (ETPH601I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID21 06/26/18-1 Jeff Bucko, Chemist 06/26/18

CA77274

The initial calibration (ETPH620I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID22 06/26/18-1 Jeff Bucko, Chemist 06/26/18

CA77255, CA77257

The initial calibration (ETPH621I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 06/27/18-1 Jeff Bucko, Chemist 06/27/18

CA77258, CA77261, CA77262, CA77275, CA77277

The initial calibration (ETPH525I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 06/26/18-1 Jeff Bucko, Chemist 06/26/18

CA77254, CA77278

The initial calibration (ETPH605I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 06/27/18-1 Jeff Bucko, Chemist 06/27/18

CA77279, CA77280

The initial calibration (ETPH605I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 436237 (CA77650)

CA77274

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 06, 2018

SDG I.D.: GCA77254

ETPH Narration

QC (Site Specific):

Batch 436099 (CA77278)

CA77254, CA77255, CA77257, CA77258, CA77261, CA77262, CA77275, CA77276, CA77277, CA77278, CA77279, CA77280

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 06/26/18 07:57 Rick Schweitzer, Chemist 06/26/18

CA77254, CA77255, CA77257, CA77258, CA77261, CA77262, CA77275, CA77276, CA77277, CA77278, CA77279, CA77280

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 436141 (CA77187)

CA77254

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QC (Site Specific):

Batch 436142 (CA77255)

CA77255, CA77257, CA77258, CA77261, CA77262, CA77275, CA77276, CA77277, CA77278, CA77279, CA77280

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Certification Report

July 06, 2018

SDG I.D.: GCA77254

Mercury Narration

125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 436086 (Samples: CA77254, CA77255, CA77257, CA77258, CA77261, CA77262, CA77264, CA77265, CA77266, CA77267, CA77268, CA77269, CA77270, CA77271, CA77272, CA77273, CA77275, CA77276, CA77277, CA77278): -----

The Sample/Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Lead)

Instrument:

ARCOS 06/25/18 06:38 Mike Arsenault, Chemist 06/25/18

CA77279, CA77280

Additional criteria for CCV and ICSAB:
Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB).The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 06/26/18 07:36 Mike Arsenault, Chemist 06/26/18

CA77254, CA77255, CA77257, CA77258, CA77261, CA77262, CA77264, CA77265, CA77266, CA77267, CA77268, CA77269, CA77270, CA77271, CA77272, CA77273, CA77275, CA77276, CA77277, CA77278

Additional criteria for CCV and ICSAB:
Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB).The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 06/27/18 11:03 Mike Arsenault, Chemist 06/27/18

CA77276, CA77277

Additional criteria for CCV and ICSAB:
Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB).The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

BLUE 06/26/18 06:19 Mike Arsenault, Chemist 06/26/18

CA77272, CA77273, CA77275, CA77276

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Certification Report

July 06, 2018

SDG I.D.: GCA77254

ICP Metals Narration

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Site Specific):

Batch 436086 (CA77255)

CA77254, CA77255, CA77257, CA77258, CA77261, CA77262, CA77264, CA77265, CA77266, CA77267, CA77268, CA77269, CA77270, CA77271, CA77272, CA77273, CA77275, CA77276, CA77277, CA77278

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

Batch 436087 (CA77280)

CA77279, CA77280

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

Batch 436146 (CA77272)

CA77272, CA77273, CA77275, CA77276

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD29 06/26/18-2 Adam Werner, Chemist 06/26/18

CA77255, CA77257, CA77258, CA77261, CA77276, CA77277, CA77278, CA77279, CA77280

The initial calibration (PC522AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC522BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD6 06/26/18-1 Adam Werner, Chemist 06/26/18

CA77254, CA77262, CA77275

The initial calibration (PC608AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC608BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Site Specific):

Batch 436073 (CA77254)

CA77254, CA77255, CA77257, CA77258, CA77261, CA77262, CA77275, CA77276, CA77277, CA77278, CA77279, CA77280

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 40 - 140 with the following exceptions: None.
All MSD recoveries were within 40 - 140 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 06, 2018

SDG I.D.: GCA77254

PCB Narration

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 436228 (Samples: CA77254, CA77256, CA77261, CA77275, CA77276, CA77277, CA77278, CA77279, CA77280): -----

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone)

QC Batch 436402 (Samples: CA77259, CA77260, CA77263, CA77281, CA77282): -----

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone)

Instrument:

CHEM03 07/05/18-1 Jane Li, Chemist 07/05/18

CA77256

Initial Calibration Verification (CHEM03/VT-L0628):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 24% (20%), Chloroethane 34% (20%), Trichlorofluoromethane 24% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM03/0705L02-VT-L0628):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: Bromomethane 31%H (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM18 06/25/18-2 Harry Mullin, Chemist 06/25/18

CA77254, CA77261, CA77275, CA77276, CA77277, CA77278, CA77279, CA77280

Initial Calibration Verification (CHEM18/VT-M0604A):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2,4-Trichlorobenzene 25% (20%), Acetone 26% (20%), Methyl Ethyl Ketone 26% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM18/0625M05-VT-M0604A):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM18 06/26/18-1 Jane Li, Chemist 06/26/18

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

July 06, 2018

SDG I.D.: GCA77254

VOA Narration

CA77259, CA77260, CA77263, CA77281, CA77282

Initial Calibration Verification (CHEM18/VT-M0604A):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2,4-Trichlorobenzene 25% (20%), Acetone 26% (20%), Methyl Ethyl Ketone 26% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM18/0626M02-VT-M0604A):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM31 06/25/18-2 Harry Mullin, Chemist 06/25/18

CA77283, CA77284

Initial Calibration Verification (CHEM31/VT-L0607):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%), Acetone 29% (20%), Bromoform 28% (20%), Chloroethane 27% (20%), trans-1,4-dichloro-2-butene 28% (20%)
The following compounds did not meet recommended response factors: Bromoform 0.085 (0.1), Tetrachloroethene 0.168 (0.2)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM31/0625_05-VT-L0607):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: Bromoform 0.092 (0.1)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 436226 (CA77377)

CA77283, CA77284

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 436228 (CA77250)

CA77254, CA77261, CA77275, CA77276, CA77277, CA77278, CA77279, CA77280

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(59%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(57%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 436402 (CA77361)

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

July 06, 2018

SDG I.D.: GCA77254

VOA Narration

CA77259, CA77260, CA77263, CA77281, CA77282

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(61%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(62%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 437563 (CA82652)

CA77256

All LCS recoveries were within 70 - 130 with the following exceptions: Bromomethane(147%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(144%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples in this delivery group were received at 5.1°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

CHAIN OF CUSTODY RECORD

Temp 5.6 °C Pg 1 of 3

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: jduigou@eagleenviro.com

Customer: Eagle Environmental, Inc.
Address: 8 South Main Street, Suite 3
Terryville, CT 06786

Project: East Haddam, Town - 1 Mo. nSt. Project P.O: 18-144.10T1
Report to: Jeff Duigou
Invoice to: Brandy - Eagle

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Kristi Bergeron Date: 6/22/18

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs by EPA 8260B	CT ECP ETPH	PCBs by EPA 8082 soil/tr	LCMA 8 Total Metals	Total Arsenic	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [✓] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
77254	B1 S2 2'-4'	S	6/21/18	0845	X	X	X	X			3	1									
77255	B1 S3 4'-6'	S	6/21/18	0850		X	X	X				1									
77256 *	B1 S4 6'-8'	S	6/21/18	0855	X						3										
77257	B2 S2 2'-4'	S	6/21/18	0925		X	X	X				1									
77258	B2 S3 4'-6'	S	6/21/18	0930		X	X	X				1									
77259 *	B2 S4 6'-8'	S	6/21/18	0935	X						3										
77260	B2 S6 10'-12'	S	6/21/18	0940	X						3										
77261	B3 S2 2'-4'	S	6/21/18	1005	X	X	X	X			3	1									
77262	B3 S3 4'-6'	S	6/21/18	1010		X	X	X				1									
77263 *	B3 S4 6'-8'	S	6/21/18	1015	X						3										
77264	B4 S2 2'-4'	S	6/21/18	1105					X			1									
77265	B4 S3 4'-6'	S	6/21/18	1110					X			1									

Relinquished by:	Accepted by:	Date:	Time:
Kristi Bergeron		6/25/18	0900
		6/25/18	11:5
		6/25/18	13:10

Comments, Special Requirements or Regulations:
Please hold samples B1 S4 6'-8', B2 S4 6'-8', B3 S4 6'-8',

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[ ] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

CHAIN OF CUSTODY RECORD

Temp 5.9 Pg 2 of 3

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: jduize@eagleenviro.com

Customer: Eagle Environmental, Inc.
Address: 8 South Main Street, Suite 3, Terryville, CT 06786

Project: East Haddam, Town-1 main St. Project P.O: 18-144.10T1
Report to: Jeff Duize
Invoice to: Brandy - Eagle

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Kristi Keegan Date: 6/22/18

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs by EPA 8260B	CT ETPH	PCBs by EPA 8082 soil/wipe	RCRA 8 Total Metals	Total Lead	Total Lead SPLP Lead	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [X] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
77266	B5 S2 2'-4'	S	6/21/18	1125					X				1									
77267	B5 S3 4'-6'	S	6/21/18	1130					X				1									
77268	B6 S2 2'-4'	S	6/21/18	1145					X				1									
77269	B6 S3 4'-6'	S	6/21/18	1150					X				1									
77270	B7 S2 2'-4'	S	6/21/18	1255					X				1									
77271	B7A S4 6'-8'	S	6/21/18	1310					X				1									
77272	B8 S2 2'-4'	S	6/21/18	1335						X X			1									
77273	B9 S3 4'-6'	S	6/21/18	1400						X X			1									
77274	B9 S5 8'-10'	S	6/21/18	1405		X							1									
77275	B10 S2 2'-4'	S	6/22/18	1135	X	X	X	X		X		3	1									
77276	B11 S2 2'-4'	S	6/22/18	1150	X	X	X	X		X		3	1									
77277	HA-1 S1 0'-2'	S	6/22/18	0910	X	X	X	X				3	1									

Relinquished by:	Accepted by:	Date:	Time:
Kristi Keegan		6/25/18	0900
		6/25/18	1115
		6/25/18	1315

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[ ] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

CHAIN OF CUSTODY RECORD

Temp 5 °C Pg 3 of 3

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: jduryea@eagleenviro.com

Customer: Eagle Environmental, Inc.
Address: 8 South Main Street, Suite 3, Terryville, CT 06786

Project: East Haddam, Town - Main St.
Report to: Jeff Duryea
Invoice to: Brandy - Eagle

Project P.O: 18-144.10T1

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Kristi Bergeron Date: 6/22/18

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs by EPA 8260B	CT DEEP ETPH	PCBs by EPA 8082 soil	RCRA 8 Total Metals	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [✓] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
77278	HA-2 S1 0'-2'	S	6/22/18	0950	X	X	X	X		3	1	3								
77279	HA-2 S2 2'-4'	S	6/22/18	0955	X	X	X	X		3	1	3								
77280	HA-3 S2 2'-4'	S	6/22/18	1050	X	X	X	X		3	1	3								
77281	06221832 4	S	6/22/18	1051	X					3										
77282	06211821012	S	6/21/18	0941	X					3										
77283	Trip Blank High	S	6/22/18	0800	X					1										
77284	Trip Blank Low	S	6/22/18	0800	X					2										

Relinquished by:	Accepted by:	Date:	Time:
Kristi Bergeron		6/25/18	0900
		6/25/18	11:15
		6/25/18	13:40

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[ ] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

State where samples were collected: CT

PHOENIX
Environmental Laboratories, Inc.

Friday, October 19, 2018

Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Sample ID#s: CB70921 - CB70954

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	8:50
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70921

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B101 S1 1-3`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.49	0.68	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	87		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	8:55
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70922

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B101 S2 3-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	45.0	0.73	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	88		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	9:00
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70923

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B101 S3 5-7`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	31.6	0.74	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	86		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	9:05
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70924

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B102 S1 1-3`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	9.24	0.74	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	90		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	9:10
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70925

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B102 S2 3-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	8.03	0.82	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	82		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	9:20
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70926

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B102 S4 7-9`

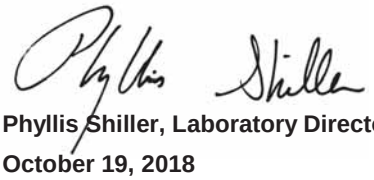
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	11.5	0.64	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	89		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	9:21
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70927

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: 10101810279

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	14.2	0.85	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	83		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	9:35
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70928

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B103 S1 1-3`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	8.98	0.72	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	85		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	9:40
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70929

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B103 S2 3-5`

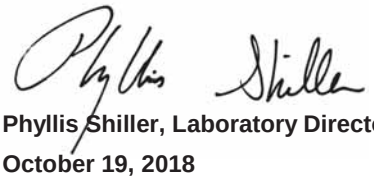
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.49	0.82	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	87		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	10:00
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70930

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B103 S3 5-7`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	30.7	0.69	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	91		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	10:15
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70931

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B104 S1 1-3`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	15.9	0.70	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	90		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	10:20
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70932

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B104 S2 3-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	16.0	0.76	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	85		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	10:25
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70933

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B104 S3 5-7`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	11.7	0.80	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	87		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	10:35
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70934

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B105 S1 1-3`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	14.0	0.92	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	78		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	10:40
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70935

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B105 S2 3-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.85	0.79	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	84		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	10:55
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70936

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B106 S1 1-3`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	46.3	0.68	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	96		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	11:00
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70937

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B106 S2 3-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	21.7	0.83	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	81		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	11:05
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70938

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B106 S3 5-7`

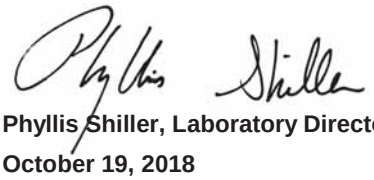
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	20.4	0.76	mg/Kg	1	10/13/18	CPP	SW6010C
Percent Solid	77		%		10/12/18	DA	SW846-%Solid
Total Metals Digest	Completed				10/12/18	K/AG/BF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	11:30
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70939

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B107 S2 3-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	80		%		10/12/18	DA	SW846-%Solid
Extraction of CT ETPH	Completed				10/15/18	SJ/U	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	10/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	10/16/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	11:35
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70940

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B107 S4 7-9`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		10/12/18	DA	SW846-%Solid
Extraction of CT ETPH	Completed				10/15/18	SJ/U	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	10/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	77		%	1	10/16/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	11:40
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70941

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B107 S5 9-11`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	79		%		10/12/18	DA	SW846-%Solid
Extraction of CT ETPH	Completed				10/15/18	SJ/U	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	10/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	83		%	1	10/16/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	11:50
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70942

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B108 S2 3-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	74		%		10/12/18	DA	SW846-%Solid
Extraction of CT ETPH	Completed				10/15/18	SJ/U	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	67	mg/Kg	1	10/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	77		%	1	10/16/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	11:55
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70943

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B108 S3 5-7`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		10/12/18	DA	SW846-%Solid
Extraction of CT ETPH	Completed				10/15/18	SJ/U	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	10/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	10/16/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	12:00
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70944

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B108 S4 7-9`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	77		%		10/12/18	DA	SW846-%Solid
Extraction of CT ETPH	Completed				10/17/18	BB/VCK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	10/18/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/18/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	10/18/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	12:05
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70945

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B108 S5 9-11`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	72		%		10/12/18	DA	SW846-%Solid
Extraction of CT ETPH	Completed				10/15/18	SJ/U	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	10/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	10/16/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	13:12
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70946

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B109 S3 5-7`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		10/12/18	DA	SW846-%Solid
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloropropene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichloropropane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
2,2-Dichloropropane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
2-Chlorotoluene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	10/16/18	JLI	SW8260C
2-Isopropyltoluene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
4-Chlorotoluene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 87 MAIN ST. Phoenix I.D.: CB70946

Client ID: B109 S3 5-7`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	26	ug/Kg	1	10/16/18	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	10/16/18	JLI	SW8260C
Acrylonitrile	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Benzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromobenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromochloromethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromodichloromethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromoform	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromomethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon Disulfide	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon tetrachloride	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Chlorobenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroform	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Chloromethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromomethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Ethylbenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Hexachlorobutadiene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Isopropylbenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
m&p-Xylene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	10/16/18	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	10/16/18	JLI	SW8260C
Naphthalene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
n-Butylbenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
n-Propylbenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
o-Xylene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
p-Isopropyltoluene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
sec-Butylbenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Styrene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
tert-Butylbenzene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrachloroethene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	10/16/18	JLI	SW8260C
Toluene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Total Xylenes	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	10/16/18	JLI	SW8260C
Trichloroethene	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	10/16/18	JLI	SW8260C
Vinyl chloride	ND	5.1	ug/Kg	1	10/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	10/16/18	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	10/16/18	JLI	70 - 130 %

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B109 S3 5-7`

Phoenix I.D.: CB70946

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	101		%	1	10/16/18	JLI	70 - 130 %
% Toluene-d8	100		%	1	10/16/18	JLI	70 - 130 %
Field Extraction	Completed				10/10/18		SW5035A

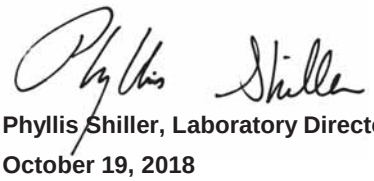
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	13:14
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70947

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B109 S4 7-9`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	81		%		10/12/18	DA	SW846-%Solid
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloropropene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichloropropane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
2,2-Dichloropropane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
2-Chlorotoluene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
2-Hexanone	ND	21	ug/Kg	1	10/16/18	JLI	SW8260C
2-Isopropyltoluene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
4-Chlorotoluene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 87 MAIN ST. Phoenix I.D.: CB70947

Client ID: B109 S4 7-9`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	21	ug/Kg	1	10/16/18	JLI	SW8260C
Acetone	ND	210	ug/Kg	1	10/16/18	JLI	SW8260C
Acrylonitrile	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Benzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromobenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromochloromethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromodichloromethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromoform	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromomethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon Disulfide	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon tetrachloride	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Chlorobenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroform	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Chloromethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromochloromethane	ND	2.5	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromomethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Ethylbenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Hexachlorobutadiene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Isopropylbenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
m&p-Xylene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	25	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.3	ug/Kg	1	10/16/18	JLI	SW8260C
Methylene chloride	ND	8.3	ug/Kg	1	10/16/18	JLI	SW8260C
Naphthalene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
n-Butylbenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
n-Propylbenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
o-Xylene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
p-Isopropyltoluene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
sec-Butylbenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Styrene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
tert-Butylbenzene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrachloroethene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.3	ug/Kg	1	10/16/18	JLI	SW8260C
Toluene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Total Xylenes	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.3	ug/Kg	1	10/16/18	JLI	SW8260C
Trichloroethene	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	8.3	ug/Kg	1	10/16/18	JLI	SW8260C
Vinyl chloride	ND	4.1	ug/Kg	1	10/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	10/16/18	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	10/16/18	JLI	70 - 130 %

Ver 1

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B109 S4 7-9`

Phoenix I.D.: CB70947

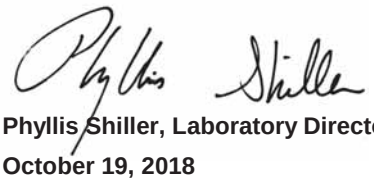
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	103		%	1	10/16/18	JLI	70 - 130 %
% Toluene-d8	101		%	1	10/16/18	JLI	70 - 130 %
Field Extraction	Completed				10/10/18		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	13:16
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70948

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B109 S5 9-11`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	78		%		10/12/18	DA	SW846-%Solid
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.3	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloropropene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichloropropane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
2,2-Dichloropropane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
2-Chlorotoluene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
2-Hexanone	ND	36	ug/Kg	1	10/16/18	JLI	SW8260C
2-Isopropyltoluene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
4-Chlorotoluene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 87 MAIN ST. Phoenix I.D.: CB70948

Client ID: B109 S5 9-11`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	36	ug/Kg	1	10/16/18	JLI	SW8260C
Acetone	ND	360	ug/Kg	1	10/16/18	JLI	SW8260C
Acrylonitrile	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Benzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromobenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromochloromethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromodichloromethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromoform	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Bromomethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon Disulfide	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon tetrachloride	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Chlorobenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroform	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Chloromethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromochloromethane	ND	4.3	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromomethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Ethylbenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Hexachlorobutadiene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Isopropylbenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
m&p-Xylene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	43	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	10/16/18	JLI	SW8260C
Methylene chloride	ND	14	ug/Kg	1	10/16/18	JLI	SW8260C
Naphthalene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
n-Butylbenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
n-Propylbenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
o-Xylene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
p-Isopropyltoluene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
sec-Butylbenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Styrene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
tert-Butylbenzene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrachloroethene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	10/16/18	JLI	SW8260C
Toluene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Total Xylenes	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	10/16/18	JLI	SW8260C
Trichloroethene	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	14	ug/Kg	1	10/16/18	JLI	SW8260C
Vinyl chloride	ND	7.1	ug/Kg	1	10/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	10/16/18	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	10/16/18	JLI	70 - 130 %

Ver 1

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B109 S5 9-11`

Phoenix I.D.: CB70948

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	100		%	1	10/16/18	JLI	70 - 130 %
% Toluene-d8	100		%	1	10/16/18	JLI	70 - 130 %
Field Extraction	Completed				10/10/18		SW5035A

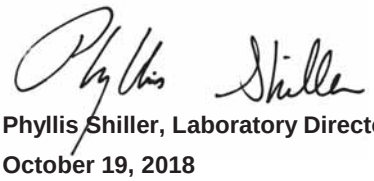
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	14:00
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70949

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B111 S3 5-7`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	80		%		10/12/18	DA	SW846-%Solid
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloropropene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichloropropane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
2,2-Dichloropropane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
2-Chlorotoluene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
2-Hexanone	ND	33	ug/Kg	1	10/16/18	JLI	SW8260C
2-Isopropyltoluene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
4-Chlorotoluene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 87 MAIN ST. Phoenix I.D.: CB70949

Client ID: B111 S3 5-7`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	33	ug/Kg	1	10/16/18	JLI	SW8260C
Acetone	ND	330	ug/Kg	1	10/16/18	JLI	SW8260C
Acrylonitrile	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Benzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Bromobenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Bromochloromethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Bromodichloromethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Bromoform	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Bromomethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon Disulfide	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon tetrachloride	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Chlorobenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroform	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Chloromethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromochloromethane	ND	3.9	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromomethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Ethylbenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Hexachlorobutadiene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Isopropylbenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
m&p-Xylene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	39	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	10/16/18	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	10/16/18	JLI	SW8260C
Naphthalene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
n-Butylbenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
n-Propylbenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
o-Xylene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
p-Isopropyltoluene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
sec-Butylbenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Styrene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
tert-Butylbenzene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrachloroethene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	10/16/18	JLI	SW8260C
Toluene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Total Xylenes	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	10/16/18	JLI	SW8260C
Trichloroethene	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	10/16/18	JLI	SW8260C
Vinyl chloride	ND	6.5	ug/Kg	1	10/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	10/16/18	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	10/16/18	JLI	70 - 130 %

Ver 1

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B111 S3 5-7`

Phoenix I.D.: CB70949

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	1	10/16/18	JLI	70 - 130 %
% Toluene-d8	100		%	1	10/16/18	JLI	70 - 130 %
Field Extraction	Completed				10/10/18		SW5035A

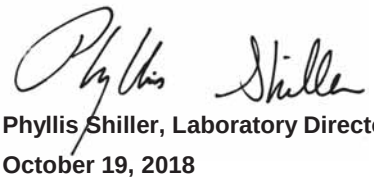
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	14:05
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70950

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B111 S4 7-9`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	81		%		10/12/18	DA	SW846-%Solid
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloropropene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichloropropane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
2,2-Dichloropropane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
2-Chlorotoluene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	10/16/18	JLI	SW8260C
2-Isopropyltoluene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
4-Chlorotoluene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 87 MAIN ST. Phoenix I.D.: CB70950

Client ID: B111 S4 7-9`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	27	ug/Kg	1	10/16/18	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	10/16/18	JLI	SW8260C
Acrylonitrile	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Benzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Bromobenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Bromochloromethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Bromodichloromethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Bromoform	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Bromomethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon Disulfide	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon tetrachloride	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Chlorobenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroform	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Chloromethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromomethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Ethylbenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Hexachlorobutadiene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Isopropylbenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
m&p-Xylene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	10/16/18	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	10/16/18	JLI	SW8260C
Naphthalene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
n-Butylbenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
n-Propylbenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
o-Xylene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
p-Isopropyltoluene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
sec-Butylbenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Styrene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
tert-Butylbenzene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrachloroethene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	10/16/18	JLI	SW8260C
Toluene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Total Xylenes	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	10/16/18	JLI	SW8260C
Trichloroethene	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	10/16/18	JLI	SW8260C
Vinyl chloride	ND	5.5	ug/Kg	1	10/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	10/16/18	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	10/16/18	JLI	70 - 130 %

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B111 S4 7-9`

Phoenix I.D.: CB70950

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	98		%	1	10/16/18	JLI	70 - 130 %
% Toluene-d8	101		%	1	10/16/18	JLI	70 - 130 %
Field Extraction	Completed				10/10/18		SW5035A

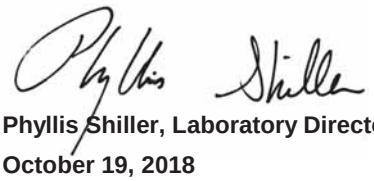
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	14:10
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70951

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B111 S5 9-11`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	72		%		10/12/18	DA	SW846-%Solid
Volatiles							
1,1,1,2-Tetrachloroethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloropropene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichloropropane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
2,2-Dichloropropane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
2-Chlorotoluene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
2-Hexanone	ND	45	ug/Kg	1	10/16/18	JLI	SW8260C
2-Isopropyltoluene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
4-Chlorotoluene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 87 MAIN ST. Phoenix I.D.: CB70951

Client ID: B111 S5 9-11`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	45	ug/Kg	1	10/16/18	JLI	SW8260C
Acetone	ND	450	ug/Kg	1	10/16/18	JLI	SW8260C
Acrylonitrile	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Benzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Bromobenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Bromochloromethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Bromodichloromethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Bromoform	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Bromomethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon Disulfide	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon tetrachloride	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Chlorobenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroform	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Chloromethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromochloromethane	ND	5.4	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromomethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Ethylbenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Hexachlorobutadiene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Isopropylbenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
m&p-Xylene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	54	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	18	ug/Kg	1	10/16/18	JLI	SW8260C
Methylene chloride	ND	18	ug/Kg	1	10/16/18	JLI	SW8260C
Naphthalene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
n-Butylbenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
n-Propylbenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
o-Xylene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
p-Isopropyltoluene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
sec-Butylbenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Styrene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
tert-Butylbenzene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrachloroethene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	18	ug/Kg	1	10/16/18	JLI	SW8260C
Toluene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Total Xylenes	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	18	ug/Kg	1	10/16/18	JLI	SW8260C
Trichloroethene	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	18	ug/Kg	1	10/16/18	JLI	SW8260C
Vinyl chloride	ND	9.0	ug/Kg	1	10/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	10/16/18	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	10/16/18	JLI	70 - 130 %

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: B111 S5 9-11`

Phoenix I.D.: CB70951

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	100		%	1	10/16/18	JLI	70 - 130 %
% Toluene-d8	99		%	1	10/16/18	JLI	70 - 130 %
Field Extraction	Completed				10/10/18		SW5035A

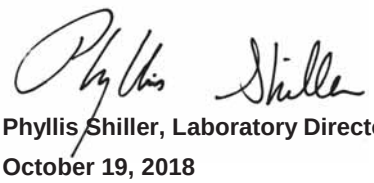
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	8:00
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70952

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: TRIP BLANK HIGH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	10/16/18	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
4-Chlorotoluene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	10/16/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: TRIP BLANK HIGH

Phoenix I.D.: CB70952

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5000	ug/Kg	50	10/16/18	JLI	SW8260C
Acrylonitrile	ND	500	ug/Kg	50	10/16/18	JLI	SW8260C
Benzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Bromodichloromethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Dibromochloromethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	10/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	10/16/18	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	10/16/18	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	10/16/18	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	10/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	50	10/16/18	JLI	70 - 130 %
% Bromofluorobenzene	96		%	50	10/16/18	JLI	70 - 130 %
% Dibromofluoromethane	99		%	50	10/16/18	JLI	70 - 130 %

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: TRIP BLANK HIGH

Phoenix I.D.: CB70952

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99		%	50	10/16/18	JLI	70 - 130 %
Field Extraction	Completed				10/10/18		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

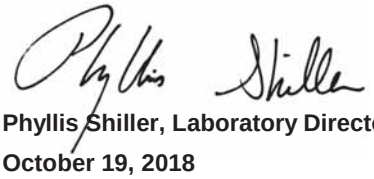
Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	8:00
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70953

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: TRIP BLANK LOW

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	10/16/18	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
4-Chlorotoluene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	10/16/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: TRIP BLANK LOW

Phoenix I.D.: CB70953

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	250	ug/Kg	1	10/16/18	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	10/16/18	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	10/16/18	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	10/16/18	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	10/16/18	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	10/16/18	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	10/16/18	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	10/16/18	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	10/16/18	JLI	70 - 130 %

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: TRIP BLANK LOW

Phoenix I.D.: CB70953

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	10/16/18	JLI	70 - 130 %
Field Extraction	Completed				10/10/18		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

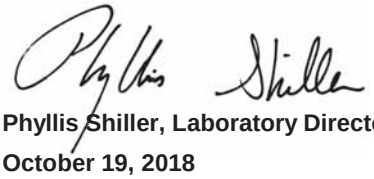
Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 19, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	10/10/18	14:11
Location Code:	EAGLEENV	Received by:	LB	10/12/18	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	18-144.10T5				

Laboratory Data

SDG ID: GCB70921
Phoenix ID: CB70954

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: 101018111911

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	10/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,1-Dichloropropene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,3-Dichloropropane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
2,2-Dichloropropane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
2-Chlorotoluene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	10/16/18	JLI	SW8260C
2-Isopropyltoluene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
4-Chlorotoluene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	10/16/18	JLI	SW8260C

Project ID: EAST HADDAM TOWN-1 87 MAIN ST. Phoenix I.D.: CB70954
Client ID: 101018111911

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	290	ug/Kg	1	10/16/18	JLI	SW8260C
Acrylonitrile	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Benzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Bromobenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Bromochloromethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Bromodichloromethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Bromoform	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Bromomethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon Disulfide	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Carbon tetrachloride	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Chlorobenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Chloroform	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Chloromethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	10/16/18	JLI	SW8260C
Dibromomethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Ethylbenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Hexachlorobutadiene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Isopropylbenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
m&p-Xylene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	10/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	10/16/18	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	10/16/18	JLI	SW8260C
Naphthalene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
n-Butylbenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
n-Propylbenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
o-Xylene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
p-Isopropyltoluene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
sec-Butylbenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Styrene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
tert-Butylbenzene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrachloroethene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	10/16/18	JLI	SW8260C
Toluene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Total Xylenes	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	10/16/18	JLI	SW8260C
Trichloroethene	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	10/16/18	JLI	SW8260C
Vinyl chloride	ND	5.8	ug/Kg	1	10/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	10/16/18	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	10/16/18	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	10/16/18	JLI	70 - 130 %

Project ID: EAST HADDAM TOWN-1 87 MAIN ST.
Client ID: 101018111911

Phoenix I.D.: CB70954

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	10/16/18	JLI	70 - 130 %
Field Extraction	Completed				10/10/18		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

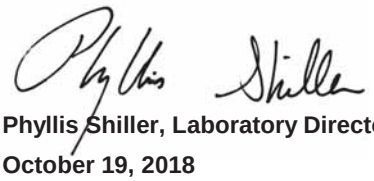
Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 19, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

October 19, 2018

QA/QC Data

SDG I.D.: GCB70921

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 451662 (mg/kg), QC Sample No: CB70922 (CB70921, CB70922, CB70923, CB70924, CB70925, CB70926, CB70927, CB70928, CB70929, CB70930, CB70931, CB70932, CB70933, CB70934, CB70935, CB70936, CB70937, CB70938)													
ICP Metals - Soil													
Arsenic	BRL	0.67	45.0	46.8	3.90	105			99.8			75 - 125	30

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

October 19, 2018

QA/QC Data

SDG I.D.: GCB70921

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 451903 (mg/Kg), QC Sample No: CB71649 (CB70939, CB70940, CB70941, CB70942, CB70943, CB70945)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	78	81	3.8	98	87	11.9	60 - 120	30
% n-Pentacosane	72	%	63	70	10.5	79	68	15.0	50 - 150	30
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 452172 (ug/kg), QC Sample No: CB71667 (CB70946, CB70947, CB70948, CB70949, CB70950, CB70951, CB70952 (50X) , CB70953, CB70954)										
Volatiles - Soil										
1,1,1,2-Tetrachloroethane	ND	5.0	96	102	6.1	91	102	11.4	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	88	91	3.4	82	94	13.6	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	100	103	3.0	99	108	8.7	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	89	90	1.1	86	94	8.9	70 - 130	30
1,1-Dichloroethane	ND	5.0	93	98	5.2	85	94	10.1	70 - 130	30
1,1-Dichloroethene	ND	5.0	96	99	3.1	81	87	7.1	70 - 130	30
1,1-Dichloropropene	ND	5.0	89	92	3.3	78	89	13.2	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	96	106	9.9	81	94	14.9	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	95	98	3.1	98	107	8.8	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	96	108	11.8	76	88	14.6	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	93	100	7.3	79	92	15.2	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	106	106	0.0	94	105	11.1	70 - 130	30
1,2-Dibromoethane	ND	5.0	94	98	4.2	91	98	7.4	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	94	101	7.2	84	95	12.3	70 - 130	30
1,2-Dichloroethane	ND	5.0	88	93	5.5	89	97	8.6	70 - 130	30
1,2-Dichloropropane	ND	5.0	85	90	5.7	84	93	10.2	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	93	100	7.3	80	93	15.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	93	102	9.2	80	92	14.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	92	95	3.2	90	98	8.5	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	92	101	9.3	80	91	12.9	70 - 130	30
2,2-Dichloropropane	ND	5.0	85	89	4.6	73	82	11.6	70 - 130	30
2-Chlorotoluene	ND	5.0	92	98	6.3	82	93	12.6	70 - 130	30
2-Hexanone	ND	25	98	98	0.0	94	102	8.2	70 - 130	30
2-Isopropyltoluene	ND	5.0	101	108	6.7	87	102	15.9	70 - 130	30
4-Chlorotoluene	ND	5.0	91	97	6.4	78	91	15.4	70 - 130	30
4-Methyl-2-pentanone	ND	25	102	102	0.0	99	107	7.8	70 - 130	30
Acetone	ND	10	86	87	1.2	NC	NC	NC	70 - 130	30
Acrylonitrile	ND	5.0	101	103	2.0	94	101	7.2	70 - 130	30
Benzene	ND	1.0	87	90	3.4	83	92	10.3	70 - 130	30
Bromobenzene	ND	5.0	92	100	8.3	87	96	9.8	70 - 130	30
Bromochloromethane	ND	5.0	89	96	7.6	89	97	8.6	70 - 130	30
Bromodichloromethane	ND	5.0	92	96	4.3	90	100	10.5	70 - 130	30
Bromoform	ND	5.0	109	114	4.5	101	111	9.4	70 - 130	30

QA/QC Data

SDG I.D.: GCB70921

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromomethane	ND	5.0	89	94	5.5	79	89	11.9	70 - 130	30
Carbon Disulfide	ND	5.0	105	109	3.7	87	98	11.9	70 - 130	30
Carbon tetrachloride	ND	5.0	89	92	3.3	80	90	11.8	70 - 130	30
Chlorobenzene	ND	5.0	93	99	6.3	85	95	11.1	70 - 130	30
Chloroethane	ND	5.0	83	90	8.1	76	85	11.2	70 - 130	30
Chloroform	ND	5.0	87	92	5.6	85	95	11.1	70 - 130	30
Chloromethane	ND	5.0	87	90	3.4	80	86	7.2	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	93	107	14.0	95	105	10.0	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	89	92	3.3	84	92	9.1	70 - 130	30
Dibromochloromethane	ND	3.0	105	111	5.6	99	109	9.6	70 - 130	30
Dibromomethane	ND	5.0	88	91	3.4	88	94	6.6	70 - 130	30
Dichlorodifluoromethane	ND	5.0	96	93	3.2	71	83	15.6	70 - 130	30
Ethylbenzene	ND	1.0	95	98	3.1	82	93	12.6	70 - 130	30
Hexachlorobutadiene	ND	5.0	95	100	5.1	71	86	19.1	70 - 130	30
Isopropylbenzene	ND	1.0	94	98	4.2	81	93	13.8	70 - 130	30
m&p-Xylene	ND	2.0	96	101	5.1	83	95	13.5	70 - 130	30
Methyl ethyl ketone	ND	5.0	91	93	2.2	88	98	10.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	106	110	3.7	99	110	10.5	70 - 130	30
Methylene chloride	ND	5.0	79	84	6.1	76	83	8.8	70 - 130	30
Naphthalene	ND	5.0	97	103	6.0	90	99	9.5	70 - 130	30
n-Butylbenzene	ND	1.0	96	103	7.0	73	87	17.5	70 - 130	30
n-Propylbenzene	ND	1.0	95	100	5.1	78	92	16.5	70 - 130	30
o-Xylene	ND	2.0	93	99	6.3	84	95	12.3	70 - 130	30
p-Isopropyltoluene	ND	1.0	94	101	7.2	76	91	18.0	70 - 130	30
sec-Butylbenzene	ND	1.0	99	104	4.9	81	96	16.9	70 - 130	30
Styrene	ND	5.0	94	100	6.2	85	95	11.1	70 - 130	30
tert-Butylbenzene	ND	1.0	92	97	5.3	80	93	15.0	70 - 130	30
Tetrachloroethene	ND	5.0	93	93	0.0	73	86	16.4	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	98	98	0.0	95	103	8.1	70 - 130	30
Toluene	ND	1.0	89	92	3.3	80	90	11.8	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	93	98	5.2	80	90	11.8	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	87	92	5.6	83	91	9.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	115	120	4.3	102	111	8.5	70 - 130	30
Trichloroethene	ND	5.0	92	95	3.2	80	90	11.8	70 - 130	30
Trichlorofluoromethane	ND	5.0	96	100	4.1	77	87	12.2	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	99	102	3.0	75	91	19.3	70 - 130	30
Vinyl chloride	ND	5.0	101	102	1.0	87	95	8.8	70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	101	101	0.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	94	%	99	99	0.0	100	100	0.0	70 - 130	30
% Dibromofluoromethane	102	%	101	100	1.0	103	100	3.0	70 - 130	30
% Toluene-d8	101	%	101	100	1.0	100	100	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 452210 (mg/Kg), QC Sample No: CB73532 (CB70944)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	71	66	7.3	96	102	6.1	60 - 120	30
% n-Pentacosane	57	%	60	56	6.9	62	67	7.8	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Data

SDG I.D.: GCB70921

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
October 19, 2018

Friday, October 19, 2018

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCB70921 - EAGLEENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB70922	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	45.0	0.73	10	10	mg/Kg
CB70923	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	31.6	0.74	10	10	mg/Kg
CB70926	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	11.5	0.64	10	10	mg/Kg
CB70927	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	14.2	0.85	10	10	mg/Kg
CB70930	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	30.7	0.69	10	10	mg/Kg
CB70931	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	15.9	0.70	10	10	mg/Kg
CB70932	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	16.0	0.76	10	10	mg/Kg
CB70933	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	11.7	0.80	10	10	mg/Kg
CB70934	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	14.0	0.92	10	10	mg/Kg
CB70936	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	46.3	0.68	10	10	mg/Kg
CB70937	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	21.7	0.83	10	10	mg/Kg
CB70938	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	20.4	0.76	10	10	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Eagle Environmental Inc.

Project Location: EAST HADDAM TOWN-1 87 MAIN ST ***Project Number:***

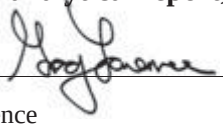
Laboratory Sample ID(s): CB70921-CB70954 ***Sampling Date(s):*** 10/10/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 8260, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?**	☑ Yes ☐ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Friday, October 19, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

October 19, 2018

SDG I.D.: GCB70921

SDG Comments

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. Only arsenic is reported as requested on the chain of custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID84 10/17/18-1 Jeff Bucko, Chemist 10/17/18

CB70944

The initial calibration (ETPHO12I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 10/16/18-1 Jeff Bucko, Chemist 10/16/18

CB70941, CB70942, CB70943, CB70945

The initial calibration (ETPH919I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 10/16/18-1 Jeff Bucko, Chemist 10/16/18

CB70939, CB70940

The initial calibration (ETPH925I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 451903 (CB71649)

CB70939, CB70940, CB70941, CB70942, CB70943, CB70945

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 452210 (CB73532)

CB70944

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 10/13/18 07:56 Cindy Pearce, Chemist 10/13/18

CB70921, CB70922, CB70923, CB70924, CB70925, CB70926, CB70927, CB70928, CB70929, CB70930, CB70931, CB70932, CB70933,

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Certification Report

October 19, 2018

SDG I.D.: GCB70921

ICP Metals Narration

CB70934, CB70935, CB70936, CB70937, CB70938

Additional criteria for CCV and ICSAB:
Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB).The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Site Specific):

Batch 451662 (CB70922)

CB70921, CB70922, CB70923, CB70924, CB70925, CB70926, CB70927, CB70928, CB70929, CB70930, CB70931, CB70932, CB70933, CB70934, CB70935, CB70936, CB70937, CB70938

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM31 10/16/18-1 Jane Li, Chemist 10/16/18

CB70946, CB70947, CB70948, CB70949, CB70950, CB70951, CB70952, CB70953, CB70954

Initial Calibration Verification (CHEM31/VT-L1011):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 26% (20%), Bromoform 26% (20%)
The following compounds did not meet recommended response factors: Acetone 0.089 (0.1), Bromoform 0.080 (0.1), Tetrachloroethene 0.182 (0.2)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM31/1016_02-VT-L1011):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: Bromoform 0.087 (0.1)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 452172 (CB71667)

CB70946, CB70947, CB70948, CB70949, CB70950, CB70951, CB70952, CB70953, CB70954

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

October 19, 2018

SDG I.D.: GCB70921

The samples in this delivery group were received at 3.1°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

CHAIN OF CUSTODY RECORD

Temp 3/ °C Pg 1 of 3

PHOENIX *Environmental Laboratories, Inc.*

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: jquigley@eagleenvira.com

Customer: Eagle Environmental Inc.
Address: 8 South Main Street, Suite 3
Terryville, CT 06786

Project: East Haddam Town - 187 Main St Project P.O: 18-144.10 TS
Report to: Jeff Quigley
Invoice to: Brandy - Eagle

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Jeffrey Quigley Date: 10/12/18

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Total Arsenic by EPA 6000/7000 & TPH by CT DEEP Method VOCs by EPA 8260	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (4) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
70921	B101 S1 1'-3'	S	10/10/18	0850	X			1									
70922	B101 S2 3'-5'	S	10/10/18	0855	X			1									
70923	B101 S3 5'-7'	S	10/10/18	0900	X			1									
70924	B102 S1 1'-3'	S	10/10/18	0905	X			1									
70925	B102 S2 3'-5'	S	10/10/18	0910	X			1									
70926	B102 S4 7'-9'	S	10/10/18	0920	X			1									
70927	B101B103 79	S	10/10/18	0921	X			1									
70928	B103 S1 1'-3'	S	10/10/18	0935	X			1									
70929	B103 S2 3'-5'	S	10/10/18	0940	X			1									
70930	B103 S3 5'-7'	S	10/10/18	1000	X			1									
70931	B104 S1 1'-3'	S	10/10/18	1015	X			1									
70932	B104 S2 3'-5'	S	10/10/18	1020	X			1									

Relinquished by:	Accepted by:	Date:	Time:
Jeffrey Quigley	Fedex	10/12/18	1000
Fedex		10/12/18	1230
		10/12/18	1520

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[ ] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

State where samples were collected: CT

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

CHAIN OF CUSTODY RECORD

Temp 31 °C Pg 2 of 3

PHOENIX *Environmental Laboratories, Inc.*

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: jduigou@eagleenvno.com

Customer: Eagle Environmental, Inc.
Address: 8 South Main Street, Suite 3, Terryville, CT 06786

Project: East Haddam Town, 187 Main St. Project P.O: 18-144.10TS
Report to: Jeff Duigou
Invoice to: Brandy - Eagle

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Kristi Kazyra Date: 10/12/18

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Total Arsenic by EPA 6010/200	ETPH by CT DEP Method	VOCs by EPA 8260	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (4) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
70933	B104 S3 5'-7'	S	10/10/18	1025	X					1									
70934	B105 S1 1'-3'	S	10/10/18	1035	X					1									
70935	B105 S2 3'-5'	S	10/10/18	1040	X					1									
70936	B106 S1 1'-3'	S	10/10/18	1055	X					1									
70937	B106 S2 3'-5'	S	10/10/18	1100	X					1									
70938	B106 S3 5'-7'	S	10/10/18	1105	X					1									
70939	B107 S2 3'-5'	S	10/10/18	1130		X				1									
70940	B107 S4 7'-9'	S	10/10/18	1135		X				1									
70941	B107 S5 9'-11'	S	10/10/18	1140		X				1									
70942	B108 S2 3'-5'	S	10/10/18	1150		X				1									
70943	B108 S3 5'-7'	S	10/10/18	1155		X				1									
70944	B108 S4 7'-9'	S	10/10/18	1200		X				1									

Relinquished by:	Accepted by:	Date:	Time:
Kristi Kazyra	Fedex	10/12/18	1005
Fedex		10/12/18	1230
		10.12.18	1520

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[ ] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

CHAIN OF CUSTODY RECORD

Temp 3.1 °C Pg 3 of 3

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: jduigou@eagleenviro.com

Customer: Eagle Environmental, Inc.
Address: 8 South Main Street, Suite 3, Terryville, CT 06786
Project: East Haddam Town - 187 Main St Project P.O: 18-144.10 TS
Report to: Jeff Duigou
Invoice to: Brandy - Eagle

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Brandi Keegan Date: 10/12/18

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request: Total Arsenic by EPA 6020/7000; ETPH by CTDEEP Method; VOCs by EPA 8260

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Total Arsenic by EPA 6020/7000	ETPH by CTDEEP Method	VOCs by EPA 8260	GL Amber 8 oz. w/H3PO4	Soil VOA Vials (1) methanol (2) H2O	GL Soil container (4) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
70945	B108 S5 9'-11'	S	10/10/18	1205	X					1									
70946	B109 S3 5'-7'	S	10/10/18	1312		X			3	1									
70947	B109 S4 7'-9'	S	10/10/18	1314		X			3	1									
70948	B109 S5 9'-11'	S	10/10/18	1316		X			3	1									
70949	B111 S3 5'-7'	S	10/10/18	1400		X			3	1									
70950	B111 S4 7'-9'	S	10/10/18	1405		X			3	1									
70951	B111 S5 9'-11'	S	10/10/18	1410		X			3	1									
70952	Trip High	S	10/10/18	0800		X			1										
70953	Trip Low	S	10/10/18	0800		X			2										
70954	10/10/18 111 9'11	S	10/10/18	1411		X			3										

Relinquished by:	Accepted by:	Date:	Time:
Brandi Keegan	Fedex	10/12/18	1006
Fedex		10/12/18	1232
		10.12.18	1520

Comments, Special Requirements or Regulations:
*Vocs to be picked up 10/15. Client to freeze Vocs. mfp

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[ ] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

APPENDIX D

GROUNDWATER ANALYTICAL RESULTS

PHOENIX
Environmental Laboratories, Inc.

Thursday, June 21, 2018

Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Project ID: 1 MAIN ST EAST HADDAM
Sample ID#s: CA72424 - CA72432

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

June 21, 2018

SDG I.D.: GCA72424

Volatile 8260 analysis:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, this compound is analyzed by GC/ECD to achieve this criteria.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/14/18	15:10
Location Code:	EAGLEENV	Received by:	B	06/18/18	12:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA72424
Phoenix ID: CA72424

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	06/20/18	MA	SW6010C
Barium	0.045	0.002	mg/L	1	06/20/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Chromium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	06/20/18	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	06/20/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	06/20/18	MA	SW6010C
Extraction of CT ETPH	Completed				06/18/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				06/19/18	IG/IG	SW7470A
Total Metals Digestion	Completed				06/19/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/19/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/19/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	85		%	1	06/19/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-2

Phoenix I.D.: CA72424

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Acetone	ND	25	ug/L	1	06/18/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/18/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-2

Phoenix I.D.: CA72424

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/18/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	06/18/18	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	06/18/18	MH	70 - 130 %
% Dibromofluoromethane	104		%	1	06/18/18	MH	70 - 130 %
% Toluene-d8	100		%	1	06/18/18	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

June 21, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/14/18	16:30
Location Code:	EAGLEENV	Received by:	B	06/18/18	12:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA72424
Phoenix ID: CA72425

Project ID: 1 MAIN ST EAST HADDAM
Client ID: MW-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	06/20/18	MA	SW6010C
Barium	0.194	0.002	mg/L	1	06/20/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Chromium	0.002	0.001	mg/L	1	06/20/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	06/20/18	RS	SW7470A
Lead	0.003	0.002	mg/L	1	06/20/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	06/20/18	MA	SW6010C
Extraction of CT ETPH	Completed				06/18/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				06/19/18	IG/IG	SW7470A
Total Metals Digestion	Completed				06/19/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/19/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/19/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	84		%	1	06/19/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: MW-2

Phoenix I.D.: CA72425

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Acetone	ND	25	ug/L	1	06/18/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/18/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: MW-2

Phoenix I.D.: CA72425

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/18/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	06/18/18	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	06/18/18	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	06/18/18	MH	70 - 130 %
% Toluene-d8	100		%	1	06/18/18	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

June 21, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/15/18	10:23
Location Code:	EAGLEENV	Received by:	B	06/18/18	12:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA72424
Phoenix ID: CA72426

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	06/20/18	MA	SW6010C
Barium	0.016	0.002	mg/L	1	06/20/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Chromium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	06/20/18	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	06/20/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	06/20/18	MA	SW6010C
Extraction of CT ETPH	Completed				06/18/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				06/19/18	IG/IG	SW7470A
Total Metals Digestion	Completed				06/19/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.069	mg/L	1	06/19/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/19/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	1	06/19/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-1

Phoenix I.D.: CA72426

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Acetone	ND	25	ug/L	1	06/18/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/18/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-1

Phoenix I.D.: CA72426

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/18/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	06/18/18	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	06/18/18	MH	70 - 130 %
% Dibromofluoromethane	103		%	1	06/18/18	MH	70 - 130 %
% Toluene-d8	101		%	1	06/18/18	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

June 21, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/15/18	11:12
Location Code:	EAGLEENV	Received by:	B	06/18/18	12:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA72424
Phoenix ID: CA72427

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	06/20/18	MA	SW6010C
Barium	0.143	0.002	mg/L	1	06/20/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Chromium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	06/20/18	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	06/20/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	06/20/18	MA	SW6010C
Extraction of CT ETPH	Completed				06/18/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				06/19/18	IG/IG	SW7470A
Total Metals Digestion	Completed				06/19/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	06/20/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/20/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	73		%	1	06/20/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-5

Phoenix I.D.: CA72427

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Acetone	ND	25	ug/L	1	06/18/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/18/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-5

Phoenix I.D.: CA72427

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/18/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/18/18	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	06/18/18	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	06/18/18	MH	70 - 130 %
% Toluene-d8	101		%	1	06/18/18	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

June 21, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/15/18	13:10
Location Code:	EAGLEENV	Received by:	B	06/18/18	12:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA72424
Phoenix ID: CA72428

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	06/20/18	MA	SW6010C
Barium	0.029	0.002	mg/L	1	06/20/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Chromium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	06/20/18	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	06/20/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	06/20/18	MA	SW6010C
Extraction of CT ETPH	Completed				06/18/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				06/19/18	IG/IG	SW7470A
Total Metals Digestion	Completed				06/19/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/19/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/19/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	06/19/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-4

Phoenix I.D.: CA72428

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Acetone	ND	25	ug/L	1	06/18/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/18/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-4

Phoenix I.D.: CA72428

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/18/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/18/18	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	06/18/18	MH	70 - 130 %
% Dibromofluoromethane	105		%	1	06/18/18	MH	70 - 130 %
% Toluene-d8	101		%	1	06/18/18	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

June 21, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/15/18	14:00
Location Code:	EAGLEENV	Received by:	B	06/18/18	12:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA72424
Phoenix ID: CA72429

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	06/20/18	MA	SW6010C
Barium	0.004	0.002	mg/L	1	06/20/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Chromium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	06/20/18	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	06/20/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	06/20/18	MA	SW6010C
Extraction of CT ETPH	Completed				06/18/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				06/19/18	IG/IG	SW7470A
Total Metals Digestion	Completed				06/19/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.070	mg/L	1	06/19/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/19/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	06/19/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-6

Phoenix I.D.: CA72429

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Acetone	ND	25	ug/L	1	06/18/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/18/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-6

Phoenix I.D.: CA72429

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/18/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	06/18/18	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	06/18/18	MH	70 - 130 %
% Dibromofluoromethane	103		%	1	06/18/18	MH	70 - 130 %
% Toluene-d8	100		%	1	06/18/18	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

June 21, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/15/18	14:45
Location Code:	EAGLEENV	Received by:	B	06/18/18	12:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA72424
Phoenix ID: CA72430

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	06/20/18	MA	SW6010C
Barium	0.031	0.002	mg/L	1	06/20/18	MA	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Chromium	< 0.001	0.001	mg/L	1	06/20/18	MA	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	06/20/18	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	06/20/18	MA	SW6010C
Selenium	< 0.010	0.010	mg/L	1	06/20/18	MA	SW6010C
Extraction of CT ETPH	Completed				06/18/18	P/D	SW3510C/SW3520C
Mercury Digestion	Completed				06/19/18	IG/IG	SW7470A
Total Metals Digestion	Completed				06/19/18	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.082	mg/L	1	06/19/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/19/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	73		%	1	06/19/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-3

Phoenix I.D.: CA72430

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Acetone	ND	25	ug/L	1	06/18/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/18/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-3

Phoenix I.D.: CA72430

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/18/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/18/18	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	06/18/18	MH	70 - 130 %
% Dibromofluoromethane	103		%	1	06/18/18	MH	70 - 130 %
% Toluene-d8	101		%	1	06/18/18	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

June 21, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/15/18	13:15
Location Code:	EAGLEENV	Received by:	B	06/18/18	12:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA72424
Phoenix ID: CA72431

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-D3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-D3

Phoenix I.D.: CA72431

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	06/18/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/18/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/18/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/18/18	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	06/18/18	MH	70 - 130 %
% Dibromofluoromethane	103		%	1	06/18/18	MH	70 - 130 %

Ver 1

Project ID: 1 MAIN ST EAST HADDAM
Client ID: W-D3

Phoenix I.D.: CA72431

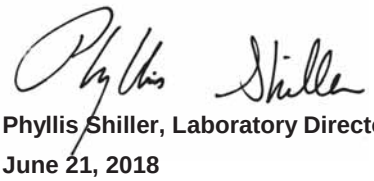
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	06/18/18	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
June 21, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2018

FOR: Attn: Mr. Jeff Duigou
Eagle Environmental Inc.
8 South Main Street, Suite 3 ©
Terryville CT 06786

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/15/18	8:00
Location Code:	EAGLEENV	Received by:	B	06/18/18	12:30
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	18-144.10T1				

Laboratory Data

SDG ID: GCA72424
Phoenix ID: CA72432

Project ID: 1 MAIN ST EAST HADDAM
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/18/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C

Project ID: 1 MAIN ST EAST HADDAM
Client ID: TRIP BLANK

Phoenix I.D.: CA72432

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	06/18/18	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/18/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/18/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/18/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/18/18	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/18/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/18/18	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	06/18/18	MH	70 - 130 %
% Dibromofluoromethane	105		%	1	06/18/18	MH	70 - 130 %

Project ID: 1 MAIN ST EAST HADDAM
Client ID: TRIP BLANK

Phoenix I.D.: CA72432

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	06/18/18	MH	70 - 130 %

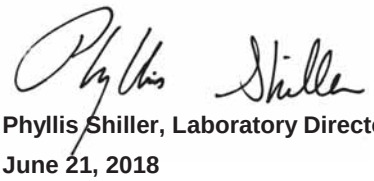
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
June 21, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

June 21, 2018

QA/QC Data

SDG I.D.: GCA72424

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 435238 (mg/L), QC Sample No: CA72279 (CA72424, CA72425, CA72426, CA72427, CA72428, CA72429, CA72430)													
ICP Metals - Aqueous													
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.2			107			75 - 125	20
Barium	BRL	0.002	0.216	0.211	2.30	101			87.3			75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	99.6			94.4			75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	98.7			92.1			75 - 125	20
Lead	BRL	0.002	0.003	0.003	NC	99.5			90.5			75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	97.2			99.2			75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	96.6			106			75 - 125	20
QA/QC Batch 435073 (mg/L), QC Sample No: CA72552 (CA72424, CA72425, CA72426, CA72427, CA72428, CA72429, CA72430)													
Mercury - Water	BRL	0.0002	<0.0002	0.0003	NC	84.9			84.3			80 - 120	20

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

June 21, 2018

QA/QC Data

SDG I.D.: GCA72424

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 435007 (mg/L), QC Sample No: CA70944 (CA72424, CA72425, CA72426, CA72427, CA72428, CA72429, CA72430)										
TPH by GC (Extractable Products) - Ground Water										
Ext. Petroleum H.C. (C9-C36)	ND	0.10	76	78	2.6				60 - 120	30
% n-Pentacosane	79	%	81	78	3.8				50 - 150	20
Comment: Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 435178 (ug/L), QC Sample No: CA72432 (CA72424, CA72425, CA72426, CA72427, CA72428, CA72429, CA72430, CA72431, CA72432)										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	101	102	1.0				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	102	103	1.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	88	89	1.1				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	85	85	0.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	89	90	1.1				70 - 130	30
1,1-Dichloroethene	ND	1.0	93	94	1.1				70 - 130	30
1,1-Dichloropropene	ND	1.0	96	96	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	92	102	10.3				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	92	90	2.2				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	92	96	4.3				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	94	96	2.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	95	98	3.1				70 - 130	30
1,2-Dibromoethane	ND	1.0	91	92	1.1				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	89	91	2.2				70 - 130	30
1,2-Dichloroethane	ND	1.0	102	101	1.0				70 - 130	30
1,2-Dichloropropane	ND	1.0	85	85	0.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	94	96	2.1				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	90	92	2.2				70 - 130	30
1,3-Dichloropropane	ND	1.0	89	89	0.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	90	92	2.2				70 - 130	30
2,2-Dichloropropane	ND	1.0	102	100	2.0				70 - 130	30
2-Chlorotoluene	ND	1.0	89	91	2.2				70 - 130	30
2-Hexanone	ND	5.0	85	87	2.3				70 - 130	30
2-Isopropyltoluene	ND	1.0	101	104	2.9				70 - 130	30
4-Chlorotoluene	ND	1.0	88	89	1.1				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	88	90	2.2				70 - 130	30
Acetone	ND	5.0	92	94	2.2				70 - 130	30
Acrylonitrile	ND	5.0	86	91	5.6				70 - 130	30
Benzene	ND	0.70	86	86	0.0				70 - 130	30
Bromobenzene	ND	1.0	93	92	1.1				70 - 130	30
Bromochloromethane	ND	1.0	88	88	0.0				70 - 130	30
Bromodichloromethane	ND	0.50	99	98	1.0				70 - 130	30
Bromoform	ND	1.0	102	102	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCA72424

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromomethane	ND	1.0	109	115	5.4				70 - 130	30
Carbon Disulfide	ND	1.0	98	99	1.0				70 - 130	30
Carbon tetrachloride	ND	1.0	106	108	1.9				70 - 130	30
Chlorobenzene	ND	1.0	90	90	0.0				70 - 130	30
Chloroethane	ND	1.0	105	102	2.9				70 - 130	30
Chloroform	ND	1.0	94	94	0.0				70 - 130	30
Chloromethane	ND	1.0	93	94	1.1				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	87	85	2.3				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	89	89	0.0				70 - 130	30
Dibromochloromethane	ND	0.50	104	105	1.0				70 - 130	30
Dibromomethane	ND	1.0	88	88	0.0				70 - 130	30
Dichlorodifluoromethane	ND	1.0	118	123	4.1				70 - 130	30
Ethylbenzene	ND	1.0	93	93	0.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	103	107	3.8				70 - 130	30
Isopropylbenzene	ND	1.0	90	91	1.1				70 - 130	30
m&p-Xylene	ND	1.0	91	92	1.1				70 - 130	30
Methyl ethyl ketone	ND	5.0	81	85	4.8				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98	97	1.0				70 - 130	30
Methylene chloride	ND	1.0	81	80	1.2				70 - 130	30
Naphthalene	ND	1.0	93	100	7.3				70 - 130	30
n-Butylbenzene	ND	1.0	94	96	2.1				70 - 130	30
n-Propylbenzene	ND	1.0	91	90	1.1				70 - 130	30
o-Xylene	ND	1.0	90	90	0.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	96	97	1.0				70 - 130	30
sec-Butylbenzene	ND	1.0	95	97	2.1				70 - 130	30
Styrene	ND	1.0	90	91	1.1				70 - 130	30
tert-Butylbenzene	ND	1.0	94	95	1.1				70 - 130	30
Tetrachloroethene	ND	1.0	95	96	1.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	92	93	1.1				70 - 130	30
Toluene	ND	1.0	88	88	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	87	89	2.3				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	91	90	1.1				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	91	95	4.3				70 - 130	30
Trichloroethene	ND	1.0	93	93	0.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	121	122	0.8				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	111	115	3.5				70 - 130	30
Vinyl chloride	ND	1.0	104	105	1.0				70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	97	98	1.0				70 - 130	30
% Bromofluorobenzene	98	%	102	103	1.0				70 - 130	30
% Dibromofluoromethane	103	%	107	106	0.9				70 - 130	30
% Toluene-d8	101	%	102	102	0.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

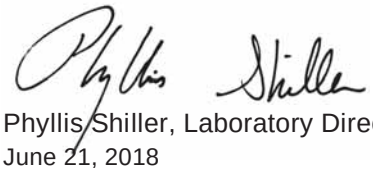
QA/QC Data

SDG I.D.: GCA72424

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference



Phyllis Shiller, Laboratory Director
June 21, 2018

Thursday, June 21, 2018

Criteria: CT: GAM, GWP, SWP

State: CT

Sample Criteria Exceedances Report

GCA72424 - EAGLEENV

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CA72424	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CA72424	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CA72425	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CA72425	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CA72426	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CA72426	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CA72427	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CA72427	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CA72428	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CA72428	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CA72429	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CA72429	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CA72430	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CA72430	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CA72431	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CA72431	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CA72432	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CA72432	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Eagle Environmental Inc.

Project Location: 1 MAIN ST EAST HADDAM ***Project Number:***

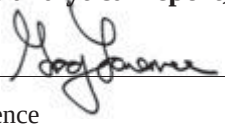
Laboratory Sample ID(s): CA72424-CA72432 ***Sampling Date(s):*** 6/14/2018, 6/15/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8260, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?**	☑ Yes ☐ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☐ Yes ☑ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Thursday, June 21, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

June 21, 2018

SDG I.D.: GCA72424

SDG Comments

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals are reported as requested on the chain of custody.

Volatile 8260 analysis:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet the GWP these compounds are analyzed by GC/ECD to achieve this criteria.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID22 06/19/18-1 Jeff Bucko, Chemist 06/19/18

CA72424, CA72425, CA72426, CA72427

The initial calibration (ETPH508I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 06/19/18-1 Jeff Bucko, Chemist 06/19/18

CA72428, CA72429, CA72430

The initial calibration (ETPH509I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 435007 (CA70944)

CA72424, CA72425, CA72426, CA72427, CA72428, CA72429, CA72430

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 06/20/18 08:14 Rick Schweitzer, Chemist 06/20/18

CA72424, CA72425, CA72426, CA72427, CA72428, CA72429, CA72430

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Certification Report

June 21, 2018

SDG I.D.: GCA72424

Mercury Narration

QC (Batch Specific):

Batch 435073 (CA72552)

CA72424, CA72425, CA72426, CA72427, CA72428, CA72429, CA72430

All LCS recoveries were within 80 - 120 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

BLUE 06/19/18 06:18 Mike Arsenault, Chemist 06/19/18

CA72424, CA72425, CA72426, CA72427, CA72428, CA72429, CA72430

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 435238 (CA72279)

CA72424, CA72425, CA72426, CA72427, CA72428, CA72429, CA72430

All LCS recoveries were within 75 - 125 with the following exceptions: None.

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM02 06/18/18-2 Michael Hahn, Chemist 06/18/18

CA72424, CA72425, CA72426, CA72427, CA72428, CA72429, CA72430, CA72431, CA72432

Initial Calibration Verification (CHEM02/VT-P0602):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%), Bromomethane 25% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.033 (0.05), Acetone 0.054 (0.1), Bromoform 0.086 (0.1), Methyl ethyl ketone 0.085 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM02/0618P28-VT-P0602):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

June 21, 2018

SDG I.D.: GCA72424

VOA Narration

The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.036 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 435178 (CA72432)

CA72424, CA72425, CA72426, CA72427, CA72428, CA72429, CA72430, CA72431, CA72432

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples in this delivery group were received at 6.0°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☐ No ☐
Coolant: IPK ☒ ICE ☐ No ☐

CHAIN OF CUSTODY RECORD

Temp 6.0 °C Pg of

PHOENIX *Environmental Laboratories, Inc.*

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☒ Email: jduigou@eagleenviro.com

Customer: Eagle Environmental Inc.
Address: 8 South Main Street Suite #3 Terryville, CT 06786

Project: 1 Main St. East Haddam
Report to: Jeff Duigou
Invoice to: Eagle

Project P.O.: 18-144,10T

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 6/15/18

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs by EPA Method 8260B	ETPH CTDEEP	RCRA 8 by EPA method (6000/7000)	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [X] 250ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
72424	W-2	GW	6/14/18	15:10	X	X	X					3	1	1					
72425	MW-2	↓	↓	16:30	X	X	X					3	1	1					
72426	W-1		6/15/18	10:23	X	X	X					3	1	1					
72427	W-5			11:12	X	X	X					3	1	1					
72428	W-4			13:10	X	X	X					3	1	1					
72429	W-6			14:00	X	X	X					3	1	1					
72430	MW-3	↓	↓	14:45	X	X	X					3	1	1					
72431	MW-3D	↓	↓	13:15	X							3							
72432	Trip Blank	↓	↓	0800	X							1							

Relinquished by:	Accepted by:	Date:	Time:
	[signature]	6/15/18	16:30
	[signature]	6/18/18	11[illegible]
[signature]	[signature]	6/18/18	12:20

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☒ 2 Days*
☐ 3 Days*
☐ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☐ RCP Cert
☒ GW Protection
☐ SW Protection
☒ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

State where samples were collected: CT

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

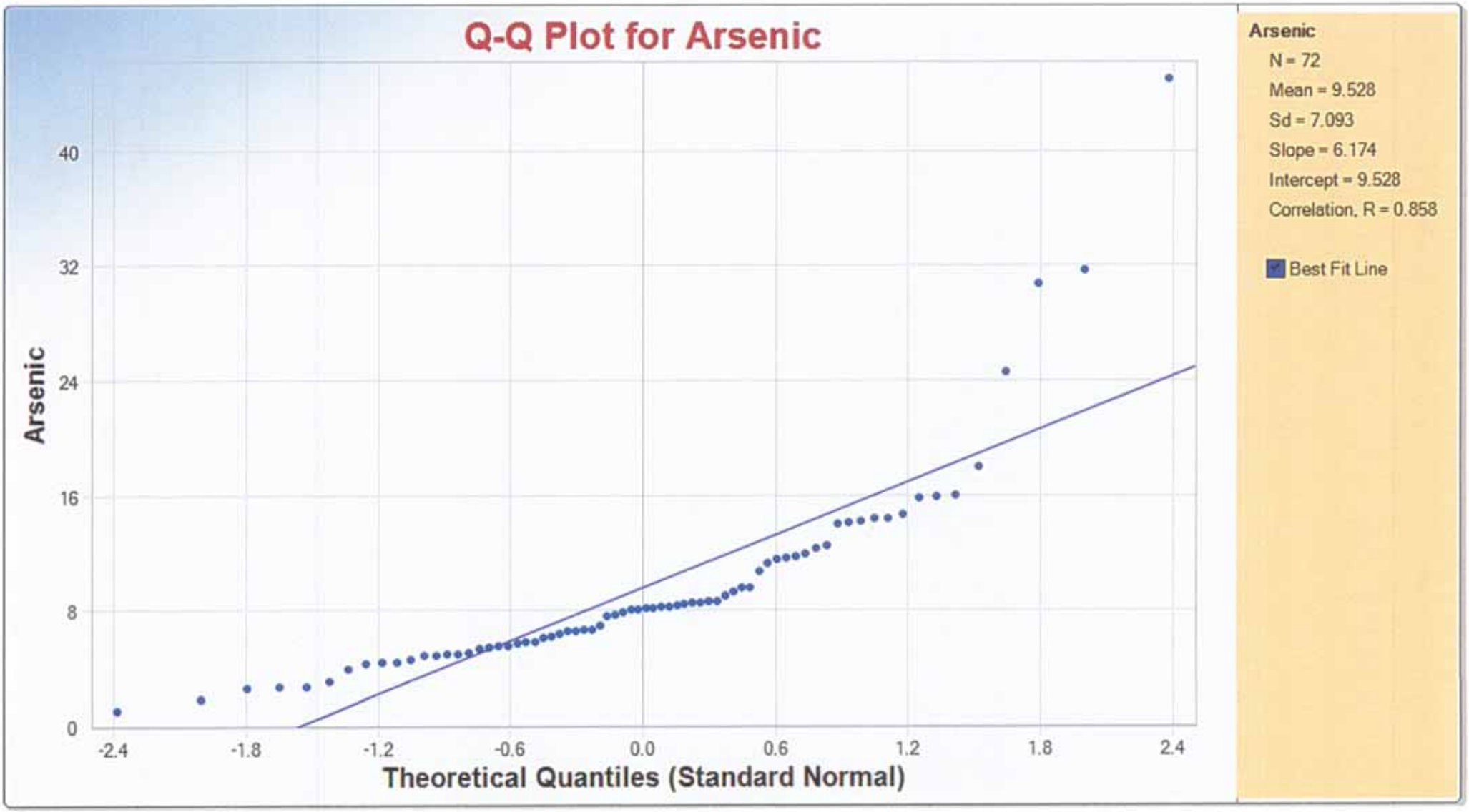
APPENDIX E

SITE SPECIFIC BACKGROUND THRESHOLD VALUE (BTV) FOR ARSENIC

1				Background Statistics for Uncensored Full Data Sets								
2			User Selected Options									
3			Date/Time of Computation	ProUCL 5.110/28/2018 4:00:36 PM								
4			From File	WorkSheet.xls								
5			Full Precision	OFF								
6			Confidence Coefficient	95%								
7			Coverage	95%								
8			New or Future K Observations	1								
9			Number of Bootstrap Operations	2000								
10												
11	C0											
12												
13	General Statistics											
14					Total Number of Observations	70				Number of Distinct Observations	60	
15										Number of Missing Observations	1	
16					Minimum	1				First Quartile	5.423	
17					Second Largest	20.4				Median	8.015	
18					Maximum	21.7				Third Quartile	11.43	
19					Mean	8.517				SD	4.417	
20					Coefficient of Variation	0.519				Skewness	0.87	
21					Mean of logged Data	1.998				SD of logged Data	0.573	
22												
23					Critical Values for Background Threshold Values (BTVs)							
24					Tolerance Factor K (For UTL)	1.985				d2max (for USL)	3.084	
25												
26					Normal GOF Test							
27					Shapiro Wilk Test Statistic	0.936				Normal GOF Test		
28					5% Shapiro Wilk P Value	0.00182				Data Not Normal at 5% Significance Level		
29					Lilliefors Test Statistic	0.15				Lilliefors GOF Test		
30					5% Lilliefors Critical Value	0.106				Data Not Normal at 5% Significance Level		
31					Data Not Normal at 5% Significance Level							
32												
33					Background Statistics Assuming Normal Distribution							
34					95% UTL with 95% Coverage	17.29				90% Percentile (z)	14.18	
35					95% UPL (t)	15.93				95% Percentile (z)	15.78	
36					95% USL	22.14				99% Percentile (z)	18.79	
37												
38					Gamma GOF Test							
39					A-D Test Statistic	0.324				Anderson-Darling Gamma GOF Test		
40					5% A-D Critical Value	0.756				Detected data appear Gamma Distributed at 5% Significance Level		
41					K-S Test Statistic	0.0802				Kolmogorov-Smirnov Gamma GOF Test		
42					5% K-S Critical Value	0.107				Detected data appear Gamma Distributed at 5% Significance Level		
43					Detected data appear Gamma Distributed at 5% Significance Level							
44												
45					Gamma Statistics							
46					k hat (MLE)	3.64				k star (bias corrected MLE)	3.493	
47					Theta hat (MLE)	2.34				Theta star (bias corrected MLE)	2.438	
48					nu hat (MLE)	509.6				nu star (bias corrected)	489.1	
49					MLE Mean (bias corrected)	8.517				MLE Sd (bias corrected)	4.557	
50												
51					Background Statistics Assuming Gamma Distribution							
52					95% Wilson Hilferty (WH) Approx. Gamma UPL	17.22				90% Percentile	14.63	
53					95% Hawkins Wixley (HW) Approx. Gamma UPL	17.58				95% Percentile	17.12	

54	95% WH Approx. Gamma UTL with 95% Coverage				19.51					99% Percentile	22.5
55	95% HW Approx. Gamma UTL with 95% Coverage				20.11						
56				95% WH USL	29.38					95% HW USL	31.46
57											
58	Lognormal GOF Test										
59				Shapiro Wilk Test Statistic	0.963	Shapiro Wilk Lognormal GOF Test					
60				5% Shapiro Wilk P Value	0.109	Data appear Lognormal at 5% Significance Level					
61				Lilliefors Test Statistic	0.076	Lilliefors Lognormal GOF Test					
62				5% Lilliefors Critical Value	0.106	Data appear Lognormal at 5% Significance Level					
63	Data appear Lognormal at 5% Significance Level										
64											
65	Background Statistics assuming Lognormal Distribution										
66				95% UTL with 95% Coverage	23.01					90% Percentile (z)	15.37
67				95% UPL (t)	19.31					95% Percentile (z)	18.93
68				95% USL	43.18					99% Percentile (z)	27.98
69											
70	Nonparametric Distribution Free Background Statistics										
71	Data appear Gamma Distributed at 5% Significance Level										
72											
73	Nonparametric Upper Limits for Background Threshold Values										
74				Order of Statistic, r	69					95% UTL with 95% Coverage	20.4
75				Approx, f used to compute achieved CC	1.816					Approximate Actual Confidence Coefficient achieved by UTL	0.871
76										Approximate Sample Size needed to achieve specified CC	93
77	95% Percentile Bootstrap UTL with 95% Coverage				20.4					95% BCA Bootstrap UTL with 95% Coverage	19.28
78				95% UPL	16.86					90% Percentile	14.42
79				90% Chebyshev UPL	21.86					95% Percentile	15.96
80				95% Chebyshev UPL	27.91					99% Percentile	20.8
81				95% USL	21.7						
82											
83	Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.										
84	Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers										
85	and consists of observations collected from clean unimpacted locations.										
86	The use of USL tends to provide a balance between false positives and false negatives provided the data										
87	represents a background data set and when many onsite observations need to be compared with the BTV.										
88											
89	C1										
90											
91	General Statistics										
92				Total Number of Observations	70					Number of Distinct Observations	2
93										Number of Missing Observations	1
94				Minimum	0					First Quartile	1
95				Second Largest	1					Median	1
96				Maximum	1					Third Quartile	1
97				Mean	0.986					SD	0.12
98				Coefficient of Variation	0.121					Skewness	-8.367
99											
100	Critical Values for Background Threshold Values (BTVs)										
101				Tolerance Factor K (For UTL)	1.985					d2max (for USL)	3.084
102											
103	Normal GOF Test										
104				Shapiro Wilk Test Statistic	0.121	Normal GOF Test					
105				5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level					
106				Lilliefors Test Statistic	0.533	Lilliefors GOF Test					

	A	B	C	D	E	F	G	H	I	J	K	L
107				5% Lilliefors Critical Value		0.106	Data Not Normal at 5% Significance Level					
108	Data Not Normal at 5% Significance Level											
109												
110	Background Statistics Assuming Normal Distribution											
111				95% UTL with	95% Coverage	1.223				90% Percentile (z)		1.139
112					95% UPL (t)	1.186				95% Percentile (z)		1.182
113					95% USL	1.354				99% Percentile (z)		1.264
114												
115	Gamma Statistics											
116	Gamma Statistics Not Available											
117												
118	Cannot Compute Gamma Statistics!											
119												
120	Cannot Compute Log Statistics											
121												
122	Nonparametric Distribution Free Background Statistics											
123	Data do not follow a Discernible Distribution (0.05)											
124												
125	Nonparametric Upper Limits for Background Threshold Values											
126					Order of Statistic, r	69				95% UTL with	95% Coverage	1
127					Approx, f used to compute achieved CC	1.816				Approximate Actual Confidence Coefficient achieved by UTL		0.871
128										Approximate Sample Size needed to achieve specified CC		93
129				95% Percentile Bootstrap UTL with	95% Coverage	N/A				95% BCA Bootstrap UTL with	95% Coverage	N/A
130					95% UPL	1				90% Percentile		1
131					90% Chebyshev UPL	1.347				95% Percentile		1
132					95% Chebyshev UPL	1.51				99% Percentile		1
133					95% USL	1						
134												
135	Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.											
136	Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers											
137	and consists of observations collected from clean unimpacted locations.											
138	The use of USL tends to provide a balance between false positives and false negatives provided the data											
139	represents a background data set and when many onsite observations need to be compared with the BTV.											
140												


Q-Q Plot for Arsenic
Arsenic
N = 72
Mean = 9.528
Sd = 7.093
Slope = 6.174
Intercept = 9.528
Correlation, R = 0.858
Best Fit Line
Arsenic
0
8
16
24
32
40
-2.4
-1.8
-1.2
-0.6
0.0
0.6
1.2
1.8
2.4
Theoretical Quantiles (Standard Normal)