



# NEWPORT ENVIRONMENTAL

## PHASE II LIMITED SUBSURFACE INVESTIGATION

COFFEY'S TEXACO  
48 TOURO STREET  
NEWPORT, RHODE ISLAND 02840

NEWPORT ENVIRONMENTAL PROJECT NO. NS0502

JUNE 16, 2014



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**TABLE OF CONTENTS**

**1.0 EXECUTIVE SUMMARY ..... 1**

**2.0 RELIANCE..... 3**

**3.0 INTRODUCTION ..... 4**

3.1 SITE LOCATION AND DESCRIPTION..... 4

    3.1.1 Topography..... 4

    3.1.2 Geology ..... 4

    3.1.3 Soils ..... 4

    3.1.4 Hydrology ..... 4

    3.1.5 Groundwater Classification..... 4

3.2 SUMMARY OF SITE HISTORY ..... 5

3.3 PREVIOUS INVESTIGATIONS..... 5

**4.0 SCOPE OF WORK..... 6**

**5.0 FIELD ACTIVITIES ..... 7**

5.1 SOIL BORING AND SAMPLING PROCEDURES..... 7

5.2 MONITOR WELL INSTALLATION AND GROUNDWATER SAMPLING ..... 8

5.3 MONITOR WELL GAUGING AND INFERRED AREA GROUNDWATER FLOW ..... 9

**6.0 LABORATORY ANALYTICAL RESULTS ..... 10**

6.1 SOIL ANALYTICAL RESULTS..... 10

6.2 GROUNDWATER ANALYTICAL RESULTS ..... 10

**7.0 CONCLUSIONS AND RECOMMENDATIONS ..... 11**

**APPENDICES**

Appendix A      Figures

Appendix B      Analytical Data Summary Tables

Appendix C      Soil Boring Logs and Soil Screening Results Summary

Appendix D      Groundwater Gauging Log

Appendix E      Laboratory Certificates

Appendix F      Groundwater Classification Map

## 1.0 EXECUTIVE SUMMARY

At the request of Church Community Housing Corp., Newport Environmental performed a Phase II Limited Subsurface Investigation (herein referred to as "PII LSI") of the property located at 48 Touro Street in Newport, Rhode Island (herein referred to as "Property" or "Site").

Newport Environmental completed a Phase I Environmental Site Assessment (PI ESA) at the Property on behalf of Church Community Housing Corp. in May 2014 which identified the existence of multiple recognized environmental conditions (RECs) at the Property related to past and current usage as a retail petroleum distribution and automotive repair facility. This PII LSI was subsequently performed to help determine the extent, if any, of impacts to soil and groundwater resulting from past and current site usage.

A total of eight soil borings were advanced at the property. Soil samples were screened in the field for the presence of total organic vapors (TOVs) using a photoionization detector (PID). Select soil samples collected from the soil borings were submitted to New England Testing Laboratory of North Providence, Rhode Island, for analysis of: volatile organic compounds (VOCs) by EPA method 8260; semivolatile organic compounds (SVOCs) via EPA method 8270; the RCRA 8 metals; polychlorinated biphenyls (PCBs) via EPA method 8082; and total petroleum hydrocarbons (TPH) via EPA method 8100M.

Petroleum staining and/or odors were identified, and TOVs were detected in the headspace of soil samples collected from three of the borings: NSB-1, NMW-1 and NMW-2.

Three of the soil borings, NMW-1, NMW-2 and NMW-3, were completed as groundwater monitor wells. Groundwater was encountered at an approximate depth of 5.5 feet below grade. Groundwater samples were collected from these three wells and four of the existing on-site wells, and analyzed for VOCs by EPA method 8260.

In all of the near-surface (0 to 2 feet) soil samples collected except one, at least one SVOC exceeded the residential direct exposure criteria (R-DEC). In the near-surface samples from borings NSB-1 and NSB-2, some SVOCs exceeded the industrial/commercial direct exposure criteria (I/C-DEC). In the sample collected at 5 to 6 feet from boring NMW-3, TPH exceeded the I/C-DEC and Leachability criteria for GB Groundwater.

All of the VOCs and metals detected in soil were compliant with the I/C-DEC. Except for benzene and total xylenes at 6 to 8 feet in NSB-1 and near-surface lead in NSB-3, which exceeded the R-DEC, all other VOCs and metals detected were compliant with the R-DEC. PCBs were not reported above the laboratory method detection limits in any of the samples.

Benzene was reported above the GB Groundwater criteria in the groundwater sample collected from MW-30, and was near or below the laboratory method detection limit in all other samples. All other VOCs detected in groundwater were compliant with the GB Groundwater Objective. Naphthalene, trimethylbenzene and xylenes were detected in NMW-1, MW-29 and MW-30. Methyl Tertiary Butyl Ether (MTBE) was detected in all samples except for MW-2, and was highest in NMW-1.

Newport Environmental has performed a Phase II Limited Subsurface Investigation of the property located at 48 Touro Street in Newport, Rhode Island. Conclusions and recommendations follow:

- Petroleum staining (NSB-1) and/or strong odors, and elevated headspace readings were identified (NSB-1 and NMW-1) and appear to be directly related to present and/or former UST systems.
- In all of the near-surface (0 to 2 feet) soil samples collected except one, at least one SVOC exceeded the R-DEC. In the near-surface samples from borings NSB-1 and NSB-2, some SVOCs exceeded the I/C-DEC. In the sample collected at 5 to 6 feet from boring NMW-3, TPH exceeded the I/C-DEC and GB Leachability criteria. Exceedances of SVOCs in shallow soil appear minimally related to fill

conditions and other potential anthropogenic sources, however contributions from petroleum cannot be ruled out.

- All of the VOCs and metals detected in soil were compliant with the I/C-DEC. Except for benzene and total xylenes at 6 to 8 feet in NSB-1 and near-surface lead in NSB-3, which exceeded the R-DEC, all other VOCs and metals detected were compliant with the R-DEC. As indicated above, NSB-1 is located within the UST release area. Based on headspace concentrations in soil boring NSB-5 as compared to NSB-1, little movement of petroleum mass into the clean fill material installed during the 2009 remedial excavation is apparent.
- PCBs were not reported above the laboratory method detection limits in any of the samples.
- Benzene was reported at a concentration of 1200 ppb (above the 140 ppb GB Groundwater quality objective) in the groundwater sample collected from MW-30, and was near or below the laboratory method detection limit in all other samples. All other VOCs detected in groundwater were compliant with the GB Groundwater Objective. Naphthalene, trimethylbenzene and xylenes were detected in NMW-1, MW-29 and MW-30. MTBE was detected in all samples except for MW-2, and was highest in NMW-1.

The current Benzene concentration was evaluated in comparison to available historical data (see Newport Environmental PI ESA Appendix H). Monitor well MW-30 appears to have been installed sometime in 2010 and was installed at a location within the excavation limits of the 2009 remedial excavation. Data for three sampling events conducted in November 2010, March 2011 and July 2011 is available for comparison. Respective Benzene concentrations for the three sampling events are 660 ppb, 100 ppb and 680 ppb. Based on comparison to these data, it is concluded that petroleum source material persists upgradient toward the former and current UST release areas. This condition would be expected as remedial excavations performed to date could not extend into the known release areas due to the presence and continued use of the existing UST systems.

- Based on laboratory groundwater data obtained, and assuming USTs and associated surrounding impacted soils are removed, it appears unlikely that a vapor migration condition, as defined by ASTM, will persist.

Based on the above findings and given the current regulatory status of the property, it would appear that exceedances of reporting thresholds at locations related to the former UST releases would not give rise to a new release notification condition.

In contrast, the following exceedances of release notification thresholds appear to be unrelated to USTs and therefore would require release notification:

- The 3173 ppm TPH concentration exhibited by the soil sample obtained from NMW-3, downgradient of the abandoned hydraulic lifts and automotive service area
- The 159 ppm lead concentration exhibited by the soil sample collected from NSB-3, obtained from beneath the concrete floor in the east service bay
- Exceedances of several SVOC compounds identified more or less site-wide in the shallow soil samples (four locations exterior to the building – NSB-1, NSB-2, NMW-1, NMW-2) and one interior location (NSB-3)

The Rhode Island Department of Environmental Management requires property owners to report releases within fifteen (15) days of the property owner gaining the knowledge that release notification thresholds have been exceeded.

## 2.0 RELIANCE

This report is for the use and benefit of, and may be relied upon by Church Community Housing Corp., its affiliates, third parties authorized in writing by Church Community Housing Corp. and Newport Environmental, including the lender(s) in connection with a secured financing of the Property and their respective successors and assigns. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual site conditions may change with time, and that hidden conditions may exist at the Property that were not discovered within the authorized scope of the PII LSI. Any use by or distribution of this report to third parties, without the express written consent of Newport Environmental, is at the sole risk and expense of such third party.

Newport Environmental makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either expressed or implied. Unless otherwise agreed upon in writing by Newport Environmental and a third party, Newport Environmental's liability to any third party authorized to use or rely on this report (with respect to any acts or omissions) shall be limited to a total maximum amount of \$100,000.

### **Newport Environmental, Inc.**



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### 3.0 INTRODUCTION

Newport Environmental was retained by Church Community Housing Corp. to conduct a Phase II Limited Subsurface Investigation (PII LSI) at the subject Site located at 48 Touro Street in Newport, Rhode Island. The objective of this investigation was to evaluate the potential presence and extent, if any, of subsurface impact to soil and groundwater associated with Site usage as a gasoline filling station and automotive repair facility, as identified in Newport Environmental's Phase I Environmental Site Assessment. The scope of work was performed in accordance with Newport Environmental's proposal signed May 15, 2014. This report presents the results of investigation activities conducted at the Site in May and June 2014.

#### 3.1 Site Location and Description

The Site is identified by the City of Newport Tax Assessor's Office as Plat 17, Lot 230 and totals approximately 0.14 acres of land. The parcel is occupied by an approximately 1,646-square foot building and is currently in use as a gasoline filling and service station. Commercial, municipal, federal, religious, and residential uses make up the majority of the surrounding land usage. A Site Location Map, Site Vicinity Annotated Aerial, and Site Plan are included in **Appendix A**.

##### 3.1.1 Topography

Based on a review of the Newport, Rhode Island USGS topographic map, the elevation of the Site is approximately 35 feet above mean sea level (MSL). The Site slopes downward to the west-northwest towards Newport Harbor, which is part of Rhode Island Sound in the Atlantic Ocean, and is located approximately 1,270 feet west of the Site. A copy of the topographic map is included in **Appendix A**.

##### 3.1.2 Geology

Based on a review of the 1994 USGS Bedrock Geology map of Rhode Island, bedrock in the vicinity of the Site is identified as Pennsylvanian Rock of the Narragansett Bay Group, Rhode Island Formation. This bedrock formation consists of arenite and shale.

##### 3.1.3 Soils

Based on a review of the 1981 Soil Survey of Rhode Island, soil at the Site is classified as Urban land complex. This complex consists of moderately well to excessively drained soils that have been disturbed by cutting or filling, and areas that are covered by buildings or pavement. Included with this unit in mapping are small, intermingled areas of Udorthents. The soil in the immediate area of the Site to the east, south and west is classified as Newport-Urban land complex, which in the substratum layer has slow to very slow permeability thereby impeding the downward movement of water, and also is medium to very strongly acid.

##### 3.1.4 Hydrology

Based upon the review of the USGS topographic map depicting the Site (**Appendix A**) and area groundwater flow data, groundwater flow at the Site is anticipated to flow generally to the west-northwest towards Newport Harbor.

##### 3.1.5 Groundwater Classification / Groundwater Flow

According to a review of the Rhode Island Department of Environmental Management (RIDEM) groundwater classification map available on-line, the Site and surrounding area are located within an area with a "GB" groundwater classification. GB groundwater is defined as groundwater that is presumed not suitable for public or private drinking water use without pretreatment. A copy of the Groundwater Classification Map is included in **Appendix F**. The site has been the subject of a long term groundwater remediation project conducted by several investigators. Apparent groundwater flow at the Site and areas

immediately downgradient thereof has been determined to be to the west-northwest.

### **3.2 Summary of Site History**

The Site has been used as a gasoline filling station since the 1920's. The current Site building was constructed circa 1940. Documented petroleum releases occurred at the Site and were identified in 1984 and 1994, with subsequent remediation and site closure in 2011. A detailed Site usage history and evaluation of current Site usage conditions is provided in Newport Environmental's March 2014 Phase I Environmental Site Assessment Report, a summary of which is provided below.

### **3.3 Phase I Environmental Site Assessment Summary**

In May 2014, a Phase I ESA of the Site was conducted by Newport Environmental on behalf of Church Community Housing Corp. During the Phase I ESA the following recognized environmental conditions (RECs) were identified at the Site:

- Historical releases of gasoline occurred at the Site based on release discoveries in 1984 and 1994, with subsequent remediation and site closure and a conditional No Further Action (NFA) letter issued in December 2011. The NFA Letter from RIDEM states that the department "reserves the right to require additional investigation and/or remediation if contamination attributable to this site is discovered in the future or if the land use changes." The issuance of a NFA Letter with usage restriction conditions effectively constitutes the implementation of a required control and as such meets the definition of a controlled recognized environmental condition (CREC) at the Site.
- The Site has continued to operate single-wall underground storage tank (UST) systems since 2011 that do not meet current RIDEM requirements for "new" USTs. The presence of non-conforming USTs and continued use as a service station poses a material threat of a future release and is therefore a REC for this Site.
- There continues to be ongoing potential for vapor migration at the Site and as such this vapor encroachment condition is identified as a REC.
- The presence of abandoned hydraulic lifts at the Site possibly containing reservoirs of hydraulic oil poses a material threat of a future petroleum release and as such is a REC at the Site.
- Historically, some hydraulic and compressor oils were formulated using PCBs, and as such the presence of hydraulic lifts and the potential presence of reservoirs of hydraulic oil containing PCBs is identified as a REC.

Based on the information collected during the Phase I ESA, Newport Environmental recommended conducting a Phase II Limited Subsurface Investigation on the Site to help determine the extent, if any, of impacts to soil and groundwater resulting from the above stated recognized environmental conditions.

#### 4.0 SCOPE OF WORK

The scope of work for this limited subsurface investigation consisted of the following tasks to assess potential releases of oil and/or hazardous materials to the subsurface of the Site:

- Preparation of a Health and Safety Plan in accordance with Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120.
- Notification of the appropriate utility locating service (DIGSAFE) in advance of any drilling activity.
- Advancement of eight (8) soil borings and collection of soil samples at the Site.
- Continuous soil sampling and inspection of each soil sample for staining, odors, or other physical evidence of impact, and screening of the samples for the emission of total organic vapors (TOV) using a Photoionization Detector (PID).
- Completion of three (3) groundwater monitor wells and collection of groundwater samples at the Site.
- Gauging depth to groundwater and, if present, separate phase product in all on-site monitor wells.
- Laboratory analysis of: eight (8) soil samples for volatile organic compounds (VOCs) via EPA method 8260; six (6) samples each for semivolatile organic (SVOCs) compounds via EPA method 8270; the RCRA 8 metals; and polychlorinated biphenyls (PCBs) via EPA method 8082; and three (3) samples for total petroleum hydrocarbons (TPH) via EPA method 8100M.
- Laboratory analysis of seven (7) groundwater samples for VOCs via EPA method 8260.
- Preparation of a Phase II Limited Subsurface Investigation report to document the project activities and investigation results.



## 5.0 FIELD ACTIVITIES

Prior to implementing the field activities, DIGSAFE was contacted and public utility lines were marked. In addition, to minimize the risk of potential exposure to chemical and physical hazards associated with the subsurface investigation activities, a site specific Health and Safety Plan was prepared. The following field activities were conducted at the Site.

### 5.1 Soil Boring Locations, Rationale and Sampling Procedures

On April 25, 2014, Newport Environmental supervised the advancement of eight soil borings, three of which were completed as monitor wells, using a geoprobe direct-push rig equipped with 4-foot macrocores operated by Martin Geo-Environmental LLC of Belchertown, Massachusetts. Soil boring locations and rationale for installation are described below. Boring/Monitor Well locations are indicated in the Site Plan included in **Appendix A**.

Boring Identification	Boring Location	Rationale	Analyses Performed *				
			VOC	SVOC	RCRA 8	PCB	TPH
NMW-1	Adjacent to north side of pump island	Installed to evaluate extent of petroleum in soil to determine future tank removal excavation extents to the north	X 0 - 2' & 5' - 7'	X	X	X	--
NMW-2	Former location of waste oil UST removed from the Site in 1994	Installed to evaluate residual waste oil impact(s), if any, to soil and groundwater	X	X	X	X	X 5' - 7'
NMW-3	Downgradient of abandoned hydraulic lifts	Installed to evaluate potential soil and groundwater impacts from hydraulic lifts and garage maintenance activity	X 5' - 6'	X	X	X	X 5' - 6'
NSB-1	Former gasoline UST area outside the excavation limits of the 2009 remedial excavation	Installed to assess residual impact from former UST area	X 0 - 2' & 6' - 8'	X	X	X	--
NSB-2	Located downgradient of the former gasoline UST area and within the 2009 remedial excavation limits	Installed to evaluate whether or not significant petroleum migration has occurred into clean fill material since 2009 remedial excavation	X	X	X	X	--
NSB-3	Downgradient of abandoned hydraulic lifts	Installed to evaluate potential soil and groundwater impacts from hydraulic lifts and garage maintenance activity	X 4' - 5'	X	X	X	X 4' - 5'
NSB-4	Installed north of NMW-1	Installed in response to high headspace reading in NMW-1 to evaluate potential vapor migration pathway to building	--	--	--	--	--
NSB-5	Located downgradient of the former gasoline UST area and within the 2011 remedial excavation limits	Installed to evaluate whether or not significant petroleum migration has occurred into clean fill material since 2009 remedial excavation	--	--	--	--	--

\* All samples obtained from the 0 – 2' soil horizon except where noted otherwise.

Locations of select soil borings were further refined in the field by evaluating site conditions apparent at the time of drilling, access restrictions, underground utility lines and hydrogeologic features (i.e., the spring).

Soil borings NMW-1, NMW-2, NMW-3 and NSB-4 were advanced to a depth of 12 feet below grade, and borings NSB-2, NSB-3, NSB-4 and NSB-5 were advanced to depths of 13, 5, 3 and 11 feet below grade, respectively. The soil samples were field screened using a photoionization detector equipped with a 10.6 eV lamp using the "Jar Headspace Technique" to confirm the presence or absence of total organic vapors. TOVs were absent in the soil samples collected from NSB-3 and NSB-4. Minimal TOVs (<2.1 ppm) were detected in the headspace of some of the samples collected from NSB-2 and NSB-5. Significant TOVs (ie. >40ppm) were detected in the samples from NSB-1 and NMW-1. A summary of the soil screening results is provided in **Appendix C**.

Shallow soils observed at the Site, above approximately 5 feet below grade, generally consisted of medium and coarse sand and granule, with some very coarse sand and pebble, and also contained some to few fragments of brick, glass, coal and coal ash indicative of fill material. Below this layer and down to the refusal depths, which ranged from 3 to 13 feet bgl, mostly silty shale fragments and weathered bedrock were encountered. Petroleum staining and/or strong petroleum-like odors were observed in samples from below 5 feet in borings NSB-1 and NMW-1. Groundwater was encountered during the soil sampling activities at an approximate depth of 5.5 feet below ground surface. Geologic and hydrogeologic conditions, as well as PID measurements were recorded on the soil boring logs, which are provided in **Appendix C**.

Select soil samples from six of the borings were collected at a depth of approximately 4 to 7 feet below grade, and also from 0 to 2 feet below grade, and placed in laboratory-cleaned and pre-preserved sample containers, which were placed in a cooler on ice and transported under Chain of Custody to New England Testing Laboratory, Inc. in North Providence, Rhode Island. Eight (8) samples were submitted for analysis of VOCs via EPA method 8260, six (6) samples for SVOCs via EPA method 8270, RCRA 8 metals, and PCBs via EPA method 8082, and three (3) samples for TPH via EPA method 8100M.

## **5.2 Monitor Well Installation and Groundwater Sampling**

All three soil borings (NMW-1, NMW-2, and NMW-3) were completed as groundwater monitor wells. Groundwater was encountered at approximately 5.5 feet below ground surface during the well installation.

The monitor wells were constructed with one-inch diameter, polyvinyl chloride (PVC) pipe. The lower portion of the PVC piping consisted of seven to eight feet of 0.01 inch, machine slotted pipe (well screen) set at an approximate depth of twelve (12) feet below ground surface with a solid riser extending to the ground surface. The well screen was placed in an effort to intercept and straddle the groundwater table. The annulus around the PVC well pipe was backfilled with uniform grade, silica sand to approximately one foot above the screen section. Approximately one foot of bentonite was placed around the PVC riser pipe above the silica sand to prevent local surface water runoff and infiltration from directly entering into the well. The borehole was backfilled with native soils from the top of the bentonite seal to the surface. A water-tight road box with locking expansion cap was placed at the ground surface. The road box was cemented in-place to provide additional protection to the well head. Monitoring well construction diagrams are presented in **Appendix C**.

Subsequent to the construction and installation of the monitor wells, the wells were developed to enhance the hydraulic connection between the well screen and the natural formation or fill by removing fine soil material and drill cuttings. Newport Environmental personnel collected in-situ groundwater samples from the three newly installed monitor wells and from four of the existing on-site wells (monitor wells MW-2, MW-3, MW-29 and MW-30) on June 4, 2014. Prior to sampling, the static water level was gauged in all on-site wells using an ORS probe. An ORS probe is capable of detecting light non-aqueous phase liquid (LNAPL) as well as the air/water interface. No separate phase petroleum was evident in any of the monitor wells. Prior to collecting groundwater samples, the volume of standing water was calculated and a

minimum of three well volumes was purged using a dedicated polyethylene bailer for each monitor well location.

The groundwater samples were placed in laboratory-cleaned and pre-preserved sample containers, which were placed in a cooler on ice and transported under Chain of Custody to New England Testing Laboratory, Inc. in North Providence, Rhode Island. Seven groundwater samples were submitted for analysis of VOCs via EPA method 8260.

### **5.3 Monitor Well Gauging and Inferred Area Groundwater Flow**

On June 4, 2014, Newport Environmental personnel gauged the depth to groundwater in all on-site monitor wells using an ORS probe. LNAPL was not detected in any of the monitor wells gauged on June 4, 2014. Groundwater depths ranged from 4.77 feet to 6.45 feet below grade on June 4, 2014. Based on the area topography and previous data (refer to Section 3.1.5), apparent groundwater flow is inferred to be towards the west-northwest. A Water Level Gauging Sheet is included in **Appendix D**.

## 6.0 LABORATORY ANALYTICAL RESULTS

### 6.1 Soil Analytical Results

In all of the near-surface (0 to 2 feet) soil samples collected except one, at least one SVOC exceeded the RIDEM Remediation Regulations Residential Direct Exposure Criteria (R-DEC). In the near-surface samples from borings NSB-1 and NSB-2, some SVOCs exceeded the Industrial/Commercial Direct Exposure Criteria (I/C-DEC). In the sample collected at 5 to 6 feet from boring NMW-3, TPH exceeded the I/C-DEC and GB Leachability criteria.

All of the VOCs and metals detected were compliant with the I/C-DEC. Except for benzene and total xylenes at 6 to 8 feet in NSB-1 and near-surface lead in NSB-3, which exceeded the R-DEC, all other VOCs and metals detected were compliant with the R-DEC. PCBs were not reported above the laboratory method detection limits in any of the samples.

The soil laboratory results are presented in a summary table included in **Appendix B**. The soil laboratory report is included in **Appendix E**.

### 6.2 Groundwater Analytical Results

Benzene was reported above the RIDEM Method I Objective for GB Groundwater in a single sample collected from MW-30 which yielded a Benzene concentration of 1200 ppb. Benzene concentrations in the remaining six samples were near or below the laboratory method detection limit. All other VOCs detected in groundwater were compliant with the GB Groundwater Objective. Naphthalene, trimethylbenzene and xylenes were detected in NMW-1, MW-29 and MW-30. Methyl Tertiary Butyl Ether (MTBE) was detected in all samples except for MW-2, and was highest in NMW-1.

Only one or two VOCs were detected above the laboratory method detection limit in NMW-2, NMW-3, MW-2 and MW-3, including chloroform in MW-2 and acetone in NMW-3. RIDEM has not promulgated GB Groundwater quality standards for chloroform or acetone. Chloroform is a common byproduct of water chlorination and acetone is a common laboratory contaminant.

The groundwater laboratory results are presented in a summary table included in **Appendix B**. The groundwater laboratory report is included in **Appendix E**.

## 7.0 CONCLUSIONS AND RECOMMENDATIONS

Newport Environmental has performed a Phase II Limited Subsurface Investigation of the property located at 48 Touro Street in Newport, Rhode Island. Conclusions and recommendations follow:

- Petroleum staining (NSB-1) and/or strong odors, and elevated headspace readings were identified (NSB-1 and NMW-1) and appear to be directly related to present and/or former UST systems.
- In all of the near-surface (0 to 2 feet) soil samples collected except one, at least one SVOC exceeded the R-DEC. In the near-surface samples from borings NSB-1 and NSB-2, some SVOCs exceeded the I/C-DEC. In the sample collected at 5 to 6 feet from boring NMW-3, TPH exceeded the I/C-DEC and GB Leachability criteria. Exceedances of SVOCs in shallow soil appear minimally related to fill conditions and other potential anthropogenic sources, however contributions from petroleum cannot be ruled out.
- All of the VOCs and metals detected in soil were compliant with the I/C-DEC. Except for benzene and total xylenes at 6 to 8 feet in NSB-1 and near-surface lead in NSB-3, which exceeded the R-DEC, all other VOCs and metals detected were compliant with the R-DEC. As indicated above, NSB-1 is located within the UST release area. Based on headspace concentrations in soil boring NSB-5 as compared to NSB-1, little movement of petroleum mass into the clean fill material installed during the 2009 remedial excavation is apparent.
- PCBs were not reported above the laboratory method detection limits in any of the samples.
- Benzene was reported at a concentration of 1200 ppb (above the 140 ppb GB Groundwater quality objective) in the groundwater sample collected from MW-30, and was near or below the laboratory method detection limit in all other samples. All other VOCs detected in groundwater were compliant with the GB Groundwater Objective. Naphthalene, trimethylbenzene and xylenes were detected in NMW-1, MW-29 and MW-30. MTBE was detected in all samples except for MW-2, and was highest in NMW-1.

The current Benzene concentration was evaluated in comparison to available historical data (see Newport Environmental PI ESA Appendix H). Monitor well MW-30 appears to have been installed sometime in 2010 and was installed at a location within the excavation limits of the 2009 remedial excavation. Data for three sampling events conducted in November 2010, March 2011 and July 2011 is available for comparison. Respective Benzene concentrations for the three sampling events are 660 ppb, 100 ppb and 680 ppb. Based on comparison to these data, it is concluded that petroleum source material persists upgradient toward the former and current UST release areas. This condition would be expected as remedial excavations performed to date could not extend into the known release areas due to the presence and continued use of the existing UST systems.

- Based on laboratory groundwater data obtained, and assuming USTs and associated surrounding impacted soils are removed, it appears unlikely that a vapor migration condition, as defined by ASTM, will persist.

Based on the above findings and given the current regulatory status of the property, it would appear that exceedances of reporting thresholds at locations related to the former UST releases would not give rise to a new release notification condition.

PHASE II LIMITED SUBSURFACE INVESTIGATION  
Coffey's Texaco  
48 Touro Street  
Newport, Rhode Island

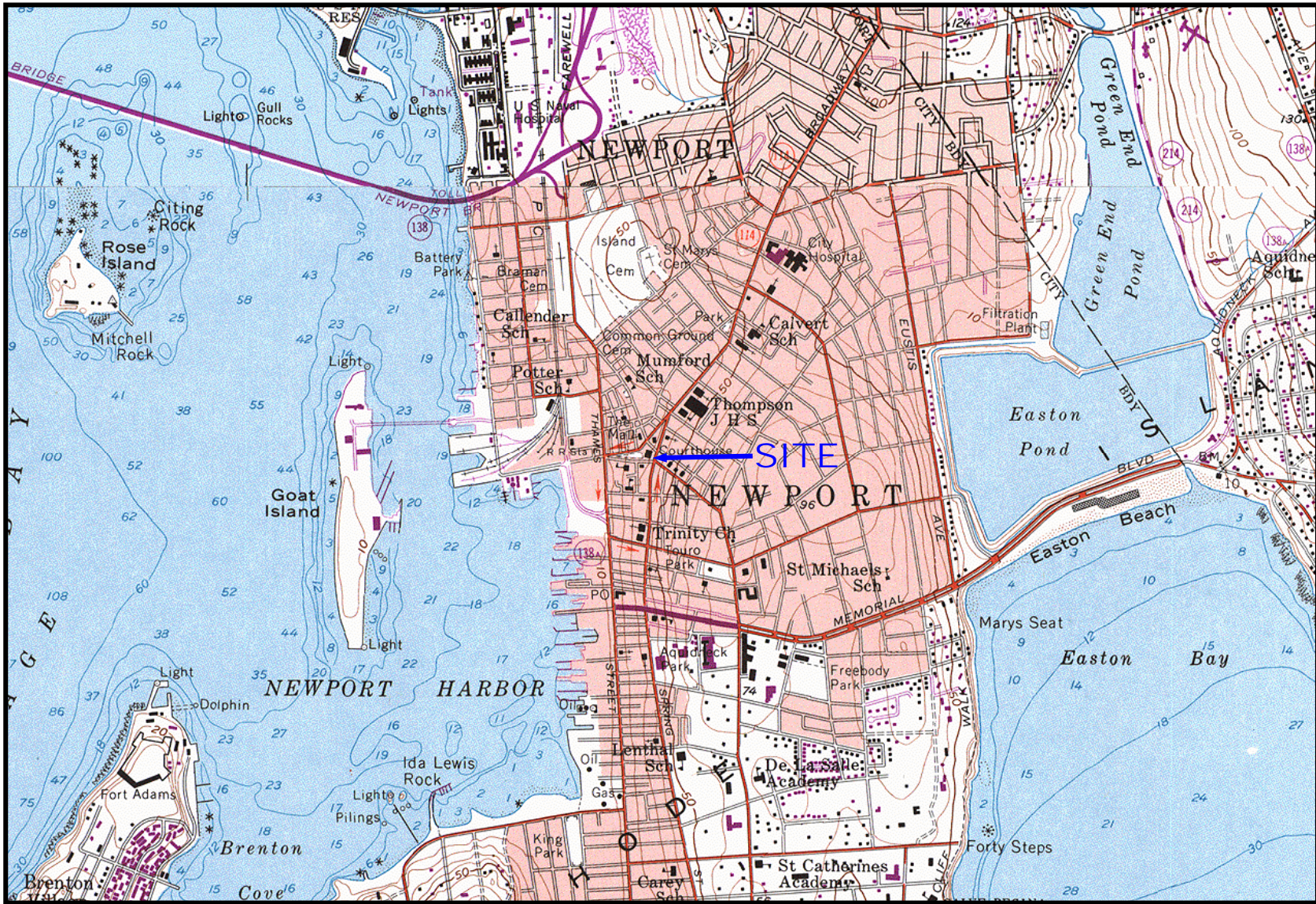
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In contrast, the following exceedances of release notification thresholds appear to be unrelated to USTs and therefore would require release notification:

- The 3173 ppm TPH concentration exhibited by the soil sample obtained from NMW-3, downgradient of the abandoned hydraulic lifts and automotive service area
- The 159 ppm lead concentration exhibited by the soil sample collected from NSB-3, obtained from beneath the concrete floor in the east service bay
- Exceedances of several SVOC compounds identified more or less site-wide in the shallow soil samples (four locations exterior to the building – NSB-1, NSB-2, NMW-1, NMW-2) and one interior location (NSB-3)

The Rhode Island Department of Environmental Management requires property owners to report releases within fifteen (15) days of the property owner gaining the knowledge that release notification thresholds have been exceeded. Until such time as you acquire the property, release notification on your behalf would not be required.

**APPENDIX A**  
**FIGURES**



**SITE LOCATION MAP**

**Coffey's Texaco  
48 Touro Street  
Newport, Rhode Island**

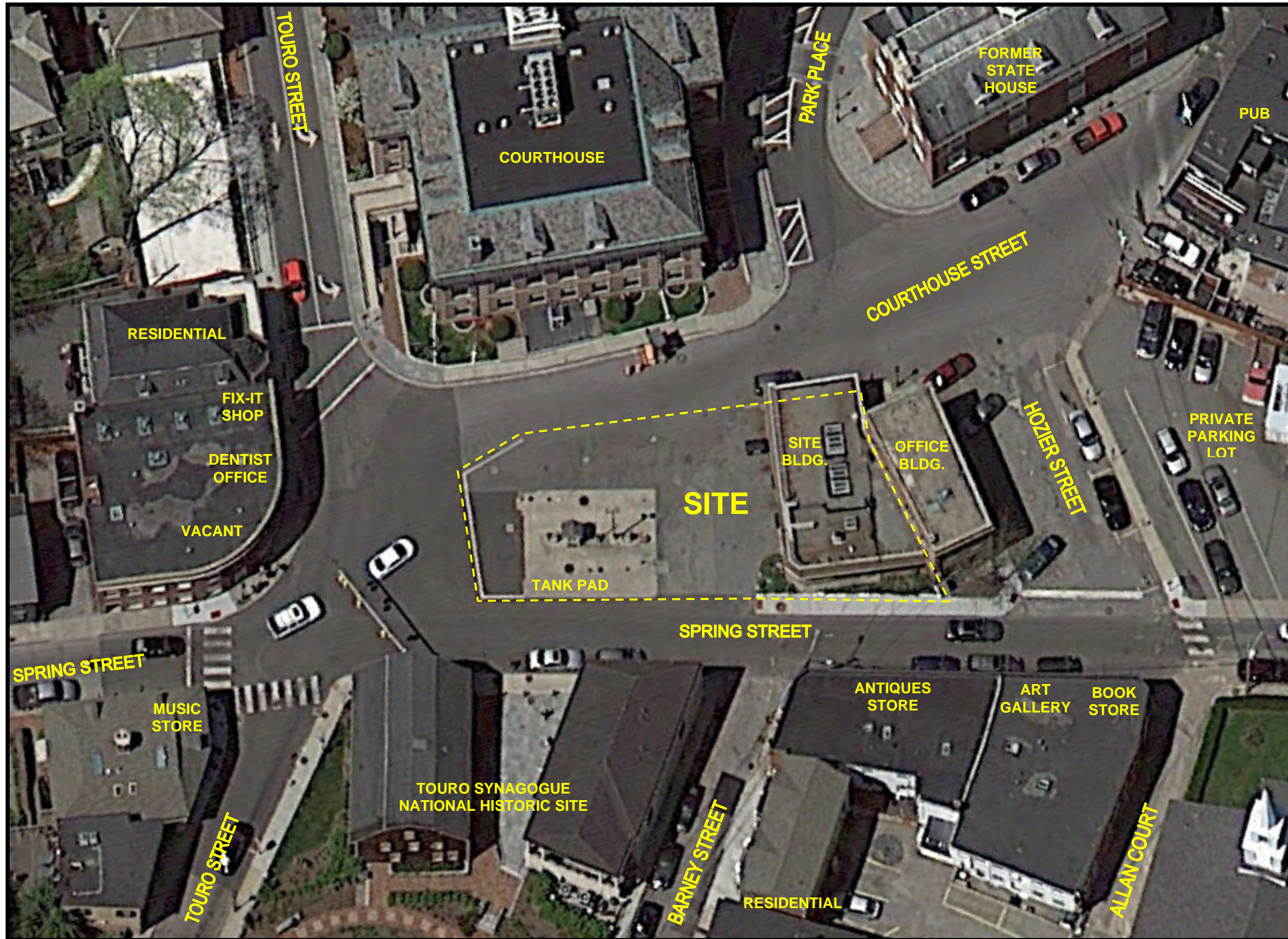
Newport Environmental Project No. NS0502



**NEWPORT  
ENVIRONMENTAL**

**Source:**  
USGS 7.5 Minute  
Newport, RI Quadrangle Map  
Scale: 1:12,000  
(1977)






**SITE VICINITY  
ANNOTATED AERIAL**

Coffey's Texaco  
48 Touro Street  
Newport, Rhode Island

Newport Environmental  
Project No. NS0502

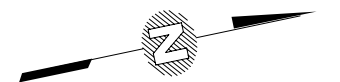


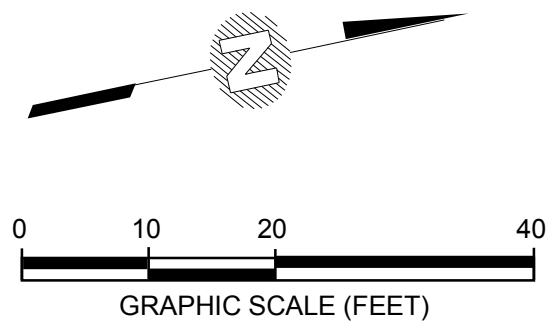
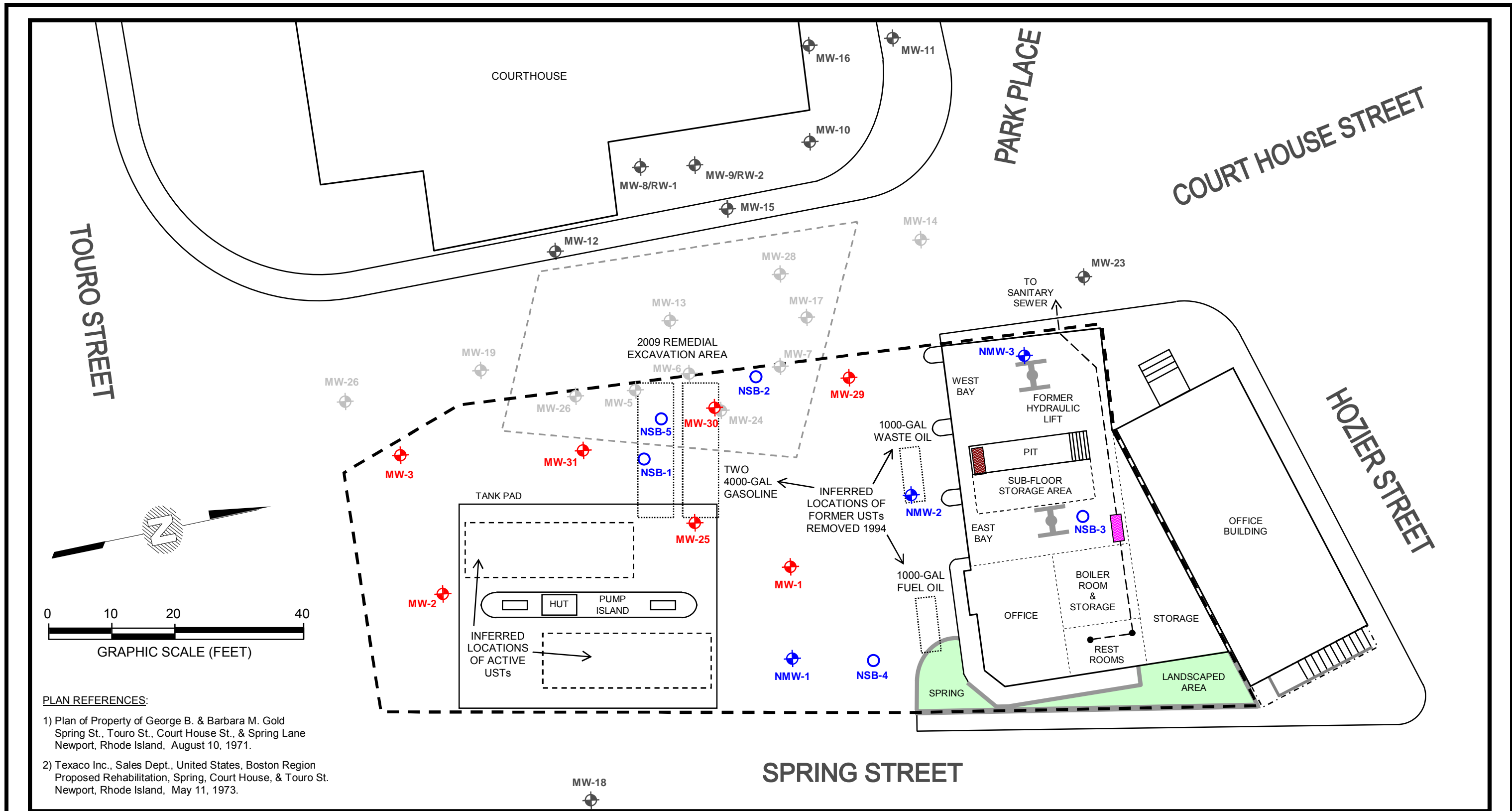
**LEGEND**

 = SITE BOUNDARY  
(APPROXIMATE)

ADJOINING PROPERTY USAGES  
AS OBSERVED FROM SITE  
DURING SITE INSPECTION ON  
MAY 16, 2014

IMAGE DATE: APRIL 27, 2013  
IMAGE CREDIT: GOOGLE EARTH





- PLAN REFERENCES:**
- 1) Plan of Property of George B. & Barbara M. Gold  
Spring St., Touro St., Court House St., & Spring Lane  
Newport, Rhode Island, August 10, 1971.
  - 2) Texaco Inc., Sales Dept., United States, Boston Region  
Proposed Rehabilitation, Spring, Court House, & Touro St.  
Newport, Rhode Island, May 11, 1973.

**SITE PLAN**  
**Coffey's Texaco**  
 48 Touro Street  
 Newport, Rhode Island  
 Newport Environmental Project No. NS0502



**LEGEND**

<p><b>FORMER / EXISTING MONITOR WELLS:</b></p> <ul style="list-style-type: none"> <li>MW-30 = EXISTING ON-SITE</li> <li>MW-18 = EXISTING OFF-SITE</li> <li>MW-24 = CLOSED OR DESTROYED</li> </ul>	<p><b>INSTALLED MAY 28, 2014:</b></p> <ul style="list-style-type: none"> <li>NMW-1 = MONITOR WELL</li> <li>NSB-4 = SOIL BORING</li> </ul>	<ul style="list-style-type: none"> <li>- - - = SITE BOUNDARY (APPROXIMATE)</li> <li>— = RETAINING WALL</li> <li>- · - · = FENCE</li> </ul>	<p><b>ASTs:</b></p> <ul style="list-style-type: none"> <li>[Pink rectangle] = FUEL OIL</li> <li>[Red rectangle] = WASTE OIL</li> </ul>
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**APPENDIX B**  
**ANALYTICAL DATA SUMMARY TABLES**

**Soil Analytical Data Summary**  
**May 28, 2014**  
**Coffey's Texaco**  
**48 Touro Street**  
**Newport, Rhode Island**

Analyte	Sample Identification											RIDEM Method 1 Objectives		
	Exterior Samples						Interior Samples					Residential Direct Exposure	Industrial/Commercial Direct Exposure	GB Leachability
	NSB-1 (0'-2')	NSB-1 (6'-8')	NSB-2 (0'-2')	NMW-1 (0'-2')	NMW-1 (5'-7')	NMW-2 (0'-2')	NMW-2 (5'-7')	NMW-3 (0'-2')	NMW-3 (5'-6')	NSB-3 (0'-2')	NSB-3 (4'-5')			
<b>Volatile Organic Compounds by 8260B</b>	<b>Concentration (ug/kg)</b>													
Benzene	<53	<b>3500</b>	<62	220	<45	<61	-	-	<56	-	<48	2500	200000	4300
Toluene	<53	48800	<62	<76	<45	<61	-	-	<56	-	<48	190000	10000000	54000
Ethylbenzene	<53	50200	<62	<76	<45	<61	-	-	<56	-	<48	71000	10000000	62000
m,p-Xylenes	<110	<b>227000</b>	<120	<150	1100	<120	-	-	<110	-	<96	Total Xylenes		n/a
o-Xylene	<53	<b>84000</b>	<62	<76	<45	<61	-	-	<56	-	<48	100000	10000000	n/a
Isopropylbenzene	<53	7400	<62	<76	420	<61	-	-	<56	-	<48	27000	10000000	n/a
n-Propylbenzene	<53	12000	<62	<76	1500	<61	-	-	<56	-	<48	n/a	n/a	n/a
1,3,5-Trimethylbenzene	85	30700	<62	<76	4600	<61	-	-	<56	-	<48	n/a	n/a	n/a
tert-Butylbenzene	<53	15000	<62	<76	2200	<61	-	-	<56	-	<48	n/a	n/a	n/a
1,2,4-Trimethylbenzene	85	109000	<62	<76	8200	<61	-	-	<56	-	97	n/a	n/a	n/a
sec-Butylbenzene	<53	1400	<62	<76	1400	<61	-	-	<56	-	88	n/a	n/a	n/a
p-Isopropyltoluene	<53	8200	<62	<76	1500	<61	-	-	<56	-	<48	n/a	n/a	n/a
n-Butylbenzene	<53	15500	<62	<76	2500	<61	-	-	<56	-	<48	n/a	n/a	n/a
Naphthalene	78	6200	120	<76	2700	<61	-	-	<56	-	<48	54000	10000000	n/a
<b>Semivolatile Organic Compounds by 8270D</b>	<b>Concentration (ug/kg)</b>													
Phenanthrene	<3500	-	<3400	470	-	270	-	670	-	510	-	40000	10000000	n/a
Fluoranthene	5800	-	6700	480	-	950	-	590	-	900	-	20000	10000000	n/a
Pyrene	8300	-	12000	810	-	1100	-	780	-	1300	-	13000	10000000	n/a
Benzo(a)anthracene	<b>4100</b>	-	<b>5400</b>	550	-	630	-	330	-	530	-	900	7800	n/a
Chrysene	<b>4600</b>	-	<b>6100</b>	<b>580</b>	-	<b>660</b>	-	360	-	<b>620</b>	-	400	800	n/a
Benzo(b)fluoranthene	<b>6400</b>	-	<b>9000</b>	730	-	830	-	430	-	710	-	900	7800	n/a
Benzo(k)fluoranthene	<3500	-	<3400	<333	-	300	-	<160	-	240	-	900	7800	n/a
Benzo(a)pyrene	<b>5600</b>	-	<b>8200</b>	<b>580</b>	-	<b>600</b>	-	310	-	550	-	400	800	n/a
Indeno(1,2,3-cd)pyrene	<b>4400</b>	-	<b>6300</b>	440	-	450	-	200	-	380	-	900	7800	n/a
Benzo(g,h,i)perylene	<b>4600</b>	-	<b>6600</b>	470	-	490	-	180	-	360	-	800	10000000	n/a
<b>TPH by 8100M</b>	<b>Concentration (mg/kg)</b>													
Total PHC	-	-	-	-	-	-	474	-	<b>3173</b>	-	199	500	2500	2500
<b>Total Metals by 6010C</b>	<b>Concentration (mg/kg)</b>													
Arsenic	5.69	-	3.61	4.11	-	4.13	-	3.72	-	3.74	-	7	7	n/a
Barium	19.4	-	17.7	50.4	-	61.2	-	50.8	-	47.2	-	5500	10000	n/a
Cadmium	<0.51	-	<0.52	<0.55	-	0.77	-	0.66	-	<0.62	-	39	1000	n/a
Chromium	6.91	-	6.4	6.48	-	8.77	-	8.31	-	7.84	-	390	10000	n/a
Lead	47.8	-	39	113	-	126	-	132	-	<b>159</b>	-	150	500	n/a
Mercury	<0.072	-	<0.073	<0.629	-	0.283	-	0.711	-	0.278	-	23	610	n/a
<b>PCBs by 8082A</b>	<b>Concentration (ug/kg)</b>													
Total PCB	<100	-	<100	<100	-	<100	-	<100	-	<100	-	10000	10000	10000

To match the laboratory method, the RIDEM objectives have been converted from ppm to ppb, where necessary.

- n/a = No applicable objective has been established for this analyte
- <2 = In this sample the analyte was not detected at or above the laboratory quantitation limit (indicated in italic)
- 3500** = In this sample the analyte concentration (indicated in bold) exceeds the RIDEM Method I objective for Residential Direct Exposure
- 8200** = Also exceeds the RIDEM Method I objective for Industrial/Commercial Direct Exposure
- 3173** = Also exceeds the RIDEM Method I objective for GB Leachability
- = Not analyzed

**Groundwater Analytical Data Summary**  
**June 4, 2014**  
**Coffey's Texaco**  
**48 Touro Street**  
**Newport, Rhode Island**

Analyte	Sample Identification							RIDEM Method 1 GB Groundwater Objective	RIDEM Groundwater UCL
	NMW-1	NMW-2	NMW-3	MW-2	MW-3	MW-29	MW-30		
<b>Volatile Organic Compounds by 8260B</b>	<b>Concentration (ug/l)</b>								
Acetone	<5	<5	8.3	<5	<5	<5	<5	n/a	n/a
tert-Butyl methyl ether (MTBE)	218	2.3	1.8	<1	7.3	20	48	5000	n/a
Chloroform	<1	<1	<1	1.4	<1	<1	<1	n/a	n/a
Benzene	<1	<1	<1	<1	<1	1.5	<b>1120</b>	140	18000
Toluene	<1	<1	<1	<1	<1	5.5	5.4	1700	21000
Ethylbenzene	<1	<1	<1	<1	<1	72	2.1	1600	16000
m,p-Xylenes	7.6	<2	<2	<2	<2	110	8.8	n/a	n/a
o-Xylene	<1	<1	<1	<1	<1	51	1.7	n/a	n/a
Isopropylbenzene	<1	<1	<1	<1	<1	9.5	11	n/a	n/a
n-Propylbenzene	2.2	<1	<1	<1	<1	23	6.3	n/a	n/a
1,3,5-Trimethylbenzene	8.4	<1	<1	<1	<1	27	<1	n/a	n/a
1,2,4-Trimethylbenzene	30	<1	<1	<1	<1	267	1.3	n/a	n/a
sec-Butylbenzene	<1	<1	<1	<1	<1	4.4	<1	n/a	n/a
p-Isopropyltoluene	<1	<1	<1	<1	<1	3.4	<1	n/a	n/a
tert butyl alcohol	<1	21	<1	<1	<1	11	233	n/a	n/a
Diethyl Ether	<1	<1	<1	<1	<1	<1	1.2	n/a	n/a
n-Butylbenzene	1.8	<1	<1	<1	<1	9.9	<1	n/a	n/a
Naphthalene	4.7	<1	<1	<1	<1	38	1.5	n/a	n/a
Tert-amyl Methyl Ether	14	<1	<1	<1	<1	<1	4.3	n/a	n/a
Ethyl Tert-butyl ether	<1	<1	<1	<1	<1	<1	2.2	n/a	n/a
Diisopropyl Ether	<1	<1	<1	<1	<1	<1	9.4	n/a	n/a

To match the laboratory method, the RIDEM objectives have been converted from ppm to ppb.

n/a = No applicable objective has been established for this analyte

<2 = In this sample the analyte was not detected at or above the laboratory quantitation limit (indicated in italic)

**1120** = In this sample the analyte concentration (indicated in bold) exceeds the RIDEM Method I objective for GB Groundwater

**APPENDIX C**  
**SOIL BORING LOGS and SOIL SCREENING RESULTS SUMMARY**

**Soil Screening Results Summary**  
**May 28, 2014**  
**Coffey's Texaco**  
**48 Touro Street**  
**Newport, Rhode Island**

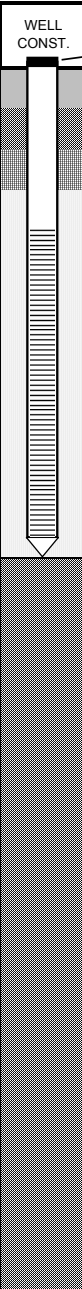
NSB-1		NSB-2		NSB-3		NSB-4		NSB-5		NMW-1		NMW-2		NMW-3					
Interval	ppm	Interval	ppm	Interval	ppm	Interval	ppm	Interval	ppm	Interval	ppm	Interval	ppm	Interval	ppm				
0-2	0.5	0-2	ND	0-2	ND	0-3	ND	0-2	ND	0-2	3.2	0-2	ND	0-2	ND				
2-4	0.5	2-4	ND	2-4	ND			2-4	ND	2-4	6.9	2-4	ND	2-4	ND				
4-6	4.3	4-7	2.1	4-5	ND			4-6	ND	4-5	NS	4-5	ND	4-5	ND	4-5	4.6		
6-8	>1500	7-8	2.0					6-8	1.5	5-7	>2500	5-7	39.4	5-7	ND	5-8	ND		
8-11	NS	8-12	1.6					8-11	0.8	7-8	NS	7-8	NS	7-8	0.6	8-10	ND		
11-12	30.5							8-12	7.2	8-12	0.4	10-12	1.5						
bedrock @ 12		bedrock @ 13		refusal @ 5		refusal @ 3		bedrock @ 11		bedrock @ 12		bedrock @ 12		bedrock @ 12					

- Results collected via the jar headsace technique using a MiniRAE 2000 equipped with a 10.6 eV lamp
- Depth indicated in feet below grade level

Drilled By: MARTIN GEO-ENVIRONMENTAL LLC	Project #: NS0502
Drilling Method: GEOPROBE 6620DT	Boring / Well Identification: <b>NMW-1</b>
Sampling Method: 4-FOOT MACROCORE	Location: COFFEY'S TEXACO, 48 TOURO ST., NEWPORT, RI
Screening Instrument: MINIRAE 2000 (10.6 eV)	Date: 5/28/2014
Depth to Water: ≈5.5'	Logged By: EG





<b>Riser:</b> Type: PVC	Diameter: 2"	Length: 4'	Well Seal: BENTONITE	Hole Diameter: 4.25"
<b>Screen:</b> Type: PVC	Slot: 0.10"	Diameter: 2"	Length: 8'	Sand Pack: #2 SAND
				Total Depth: 12'

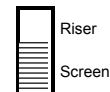
**BORING COMPLETION AND SAMPLE DATA**

DEPTH (FEET)	SAMPLING ID	SAMPLE RECOVERY	MOISTURE CONTENT	SCREENING RESULTS	WELL CONST.	LITHOLOGY / REMARKS
1	NMW-1 (0'-2')	18"	Dry	3.2		0 - 0.5' Asphalt
2				6.9		0.5' - 5' Medium & coarse SAND, some fine sand, granule and pebble, few brick fragments and glass shards, dark brown, some black
3			NS			
4		36"	Moist	>2500		5' - 7' Medium & coarse SAND, some coarse sand, few very coarse sand and granule, brown, odor
5				NS		
6	NMW-1 (5'-7')		Wet	7.2		7' - 11' SILTY SHALE FRAGMENTS, beige
7						
8		48"				11' - 12' WEATHERED SHALE BEDROCK, grey, some orange
9						
10						
11						
12						
13						- EOB at 12'
14						- Well set at 12'
15						
16						
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NOTES: ND = None detected above the instrument's detection limit of 0.2 parts per million.  
 NS = Not screened  
 EOB = End of boring

**Well Legend**

	Concrete
	Bentonite
	Sand Pack
	Native

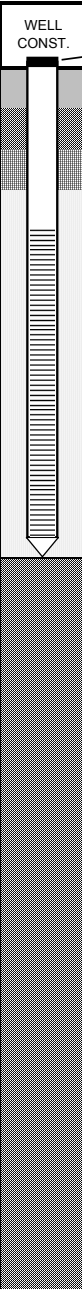




Drilled By: MARTIN GEO-ENVIRONMENTAL LLC	Project #: NS0502
Drilling Method: GEOPROBE 6620DT	Boring / Well Identification: <b>NMW-2</b>
Sampling Method: 4-FOOT MACROCORE	Location: COFFEY'S TEXACO, 48 TOURO ST., NEWPORT, RI
Screening Instrument: MINIRAE 2000 (10.6 eV)	Date: 5/28/2014
Depth to Water: ≈5.5'	Logged By: EG







<b>Riser:</b> Type: PVC	Diameter: 2"	Length: 4'	Well Seal: BENTONITE	Hole Diameter: 4.25"
<b>Screen:</b> Type: PVC	Slot: 0.10"	Diameter: 2"	Length: 8'	Sand Pack: #2 SAND
				Total Depth: 12'

**BORING COMPLETION AND SAMPLE DATA**

DEPTH (FEET)	SAMPLING ID	SAMPLE RECOVERY	MOISTURE CONTENT	SCREENING RESULTS	WELL CONST.	LITHOLOGY / REMARKS	
1	NMW-2 (0'-2')	36"	Dry	ND		0 - 0.5' Asphalt	
2				ND		0.5' - 5' Medium & coarse SAND, some fine & very coarse sand, granule and pebble, few brick and rock fragments, brown, some orange	
3				ND			
4		20"	Wet	39.4		5' - 7' SILT & fine SAND, some medium sand, few coarse & very coarse sand and granule, grey, some odor	
5				0.6			
6	NMW-2 (5'-7')						
7		40"	Moist	0.4		7' - 12' SILTY SHALE FRAGMENTS, beige, some orange and grey, few black	
8							
9							
10							
11							
12							
13						- EOB at 12'	
14						- Well set at 12'	
15							
16							
17							
18							
19							
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21							
22							
23							
24							
25							
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NOTES: ND = None detected above the instrument's detection limit of 0.2 parts per million.  
 NS = Not screened  
 EOB = End of boring

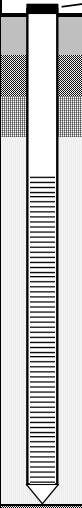
**Well Legend**

	Concrete		Riser
	Bentonite		Screen
	Sand Pack		
	Native		

Drilled By: MARTIN GEO-ENVIRONMENTAL LLC	Project #: NS0502
Drilling Method: GEOPROBE 6620DT	Boring / Well Identification: <b>NMW-3</b>
Sampling Method: 4-FOOT MACROCORE	Location: COFFEY'S TEXACO, 48 TOURO ST., NEWPORT, RI
Screening Instrument: MINIRAE 2000 (10.6 eV)	Date: 5/28/2014
Depth to Water: ≈5.5'	Logged By: EG







<b>Riser:</b> Type: PVC	Diameter: 2"	Length: 4'	Well Seal: BENTONITE	Hole Diameter: 4.25"
<b>Screen:</b> Type: PVC	Slot: 0.10"	Diameter: 2"	Length: 8'	Sand Pack: #2 SAND
				Total Depth: 12'

**BORING COMPLETION AND SAMPLE DATA**

DEPTH (FEET)	SAMPLING ID	SAMPLE RECOVERY	MOISTURE CONTENT	SCREENING RESULTS	WELL CONST.	LITHOLOGY / REMARKS	
1	NMW-3 (0'-2')	20"	Dry	ND	 Locking plug and flush-mount roadbox	0 - 0.5' Concrete floor	
2				ND		0.5' - 5' Fine SAND & COAL ASH, some coal fragments, brown and white, some orange	
3		38"	Moist	4.6		5' - 6' Fine & medium SAND, some rock fragments, brown, some grey	
4				ND		6' - 8' Fine & medium SAND, few coarse sand, granule, pebble, rock fragments, grey	
5	NMW-3 (4'-5')	48"	Wet	ND		8' - 10' Coarse & very coarse SAND, some medium sand and granule, grey	
6				1.5		10' - 12' SILTY SHALE FRAGMENTS & WEATHERED SHALE BEDROCK, grey and light grey	
7							
8							
9							
10							
11							
12							
13						- EOB at 12'	
14						- Well set at 12'	
15							
16							
17							
18							
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26							
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28							
29							
30							

NOTES: ND = None detected above the instrument's detection limit of 0.2 parts per million.  
 NS = Not screened  
 EOB = End of boring

**Well Legend**

	Concrete		Riser
	Bentonite		Screen
	Sand Pack		
	Native		



## SOIL BORING LOG AND COMPLETION REPORT

Drilled By: MARTIN GEO-ENVIRONMENTAL LLC	Project #: NS0502
Drilling Method: GEOPROBE 6620DT	Boring / Well Identification: <b>NSB-1</b>
Sampling Method: 4-FOOT MACROCORE	Location: COFFEY'S TEXACO, 48 TOURO ST., NEWPORT, RI
Screening Instrument: MINIRAE 2000 (10.6 eV)	Date: 5/28/2014
Depth to Water: ≈5.5'	Logged By: EG

**Riser:** Type: PVC      Diameter:      Length:      Well Seal:      Hole Diameter: 4.25"  
**Screen:** Type: PVC      Slot:      Diameter:      Length:      Sand Pack:      Total Depth: 12'

### BORING COMPLETION AND SAMPLE DATA

DEPTH (FEET)	SAMPLING ID	SAMPLE RECOVERY	MOISTURE CONTENT	SCREENING RESULTS	WELL CONST.	LITHOLOGY / REMARKS	
1	NSB-1 (0'-2')	36"	Dry	0.5		0 - 0.5' Asphalt	
2				0.5		0.5' - 6' Medium & coarse SAND and GRANULE, some very coarse sand and pebble, few brick, coal and rock fragments, brown, some black, trace white	
3		4.3					
4		36"	Moist	>1500			
5							
6	NSB-1 (6'-8')		Wet	NS			6' - 11' Medium SAND, some fine & coarse sand, few very granule and pebble, brown, staining, strong odor
7							
8		48"		30.5			11' - 12' SILTY SHALE FRAGMENTS & WEATHERED SHALE BEDROCK, greyish-brown
9						Boring only	
10						No well set	
11							- EOB at 12'
12							
13							
14							
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30							

NOTES:      ND = None detected above the instrument's detection limit of 0.2 parts per million.  
                 NS = Not screened  
                 EOB = End of boring

**Well Legend**

	Concrete		Riser
	Bentonite		Screen
	Sand Pack		
	Native		



## SOIL BORING LOG AND COMPLETION REPORT

Drilled By: MARTIN GEO-ENVIRONMENTAL LLC	Project #: NS0502
Drilling Method: GEOPROBE 6620DT	Boring / Well Identification: <b>NSB-2</b>
Sampling Method: 4-FOOT MACROCORE	Location: COFFEY'S TEXACO, 48 TOURO ST., NEWPORT, RI
Screening Instrument: MINIRAE 2000 (10.6 eV)	Date: 5/28/2014
Depth to Water: ≈5.5'	Logged By: EG

<b>Riser:</b> Type: PVC	Diameter:	Length:	Well Seal:	Hole Diameter: 4.25"
<b>Screen:</b> Type: PVC	Slot:	Diameter:	Length:	Sand Pack:
				Total Depth: 13'

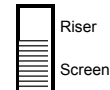
### BORING COMPLETION AND SAMPLE DATA

DEPTH (FEET)	SAMPLING ID	SAMPLE RECOVERY	MOISTURE CONTENT	SCREENING RESULTS	WELL CONST.	LITHOLOGY / REMARKS
1	NSB-2 (0'-2')	36"	Dry	ND	Boring only No well set	0 - 0.5' Asphalt
2				ND		0.5' - 8' Medium & coarse SAND and GRANULE, some very coarse sand and pebble, few coal, glass and rock fragments, brown, some black
3	2.1					
4	2.0					
5	30"	Moist	2.1	8' - 12' Coarse & very coarse SAND, some medium sand, granule and pebble, brown		
6			2.0			
7	24"	Wet	1.6	12' - 13' SILTY SHALE FRAGMENTS & WEATHERED SHALE BEDROCK, greyish-brown		
8			NS			
9	8"					
10						
11						
12						
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NOTES: ND = None detected above the instrument's detection limit of 0.2 parts per million.  
 NS = Not screened  
 EOB = End of boring

**Well Legend**

	Concrete
	Bentonite
	Sand Pack
	Native





Drilled By: MARTIN GEO-ENVIRONMENTAL LLC	Project #: NS0502
Drilling Method: GEOPROBE 6620DT	Boring / Well Identification: <b>NSB-3</b>
Sampling Method: 4-FOOT MACROCORE	Location: COFFEY'S TEXACO, 48 TOURO ST., NEWPORT, RI
Screening Instrument: MINIRAE 2000 (10.6 eV)	Date: 5/28/2014
and	Logged By: EG

<b>Riser:</b> Type: PVC	Diameter:	Length:	Well Seal:	Hole Diameter: 4.25"
<b>Screen:</b> Type: PVC	Slot:	Diameter:	Length:	Sand Pack: Total Depth: 5'

**BORING COMPLETION AND SAMPLE DATA**

DEPTH (FEET)	SAMPLING ID	SAMPLE RECOVERY	MOISTURE CONTENT	SCREENING RESULTS	WELL CONST.	LITHOLOGY / REMARKS
1	NSB-3 (0'-2')	12"	Dry	ND		0 - 0.5' Asphalt
2						
3		ND				
4						
5	NSB-3 (4'-5')	10"		ND		0.5' - 5' Medium & coarse SAND, some fine & very coarse sand and granule, few pebble and coal ash, brown, some beige
6					Boring only	- Refusal and EOB at 5'
7					No well set	
8						
9						
10						
11						
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28						
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30						

NOTES: ND = None detected above the instrument's detection limit of 0.2 parts per million.  
 NS = Not screened  
 EOB = End of boring

**Well Legend**

	Concrete		Riser	
	Bentonite			Screen
	Sand Pack			
	Native			



## SOIL BORING LOG AND COMPLETION REPORT

Drilled By: MARTIN GEO-ENVIRONMENTAL LLC	Project #: NS0502
Drilling Method: GEOPROBE 6620DT	Boring / Well Identification: <b>NSB-4</b>
Sampling Method: 4-FOOT MACROCORE	Location: COFFEY'S TEXACO, 48 TOURO ST., NEWPORT, RI
Screening Instrument: MINIRAE 2000 (10.6 eV)	Date: 5/28/2014
and	Logged By: EG

**Riser:** Type: PVC      Diameter:      Length:      Well Seal:      Hole Diameter: 4.25"  
**Screen:** Type: PVC      Slot:      Diameter:      Length:      Sand Pack:      Total Depth: 3'

### BORING COMPLETION AND SAMPLE DATA

DEPTH (FEET)	SAMPLING ID	SAMPLE RECOVERY	MOISTURE CONTENT	SCREENING RESULTS	WELL CONST.	LITHOLOGY / REMARKS
1						0 - 0.5' Asphalt
2		10"	Dry	NS		0.5' - 3' Medium & coarse SAND, some fine sand, granule and pebble, brown
3						
4					Boring only	
5					No well set	- Refusal and EOB at 3'
6						
7						
8						
9						
10						
11						
12						
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26						
27						
28						
29						
30						

NOTES:      ND = None detected above the instrument's detection limit of 0.2 parts per million.  
               NS = Not screened  
               EOB = End of boring

**Well Legend**

	Concrete		Riser
	Bentonite		Screen
	Sand Pack		
	Native		



## SOIL BORING LOG AND COMPLETION REPORT

Drilled By: MARTIN GEO-ENVIRONMENTAL LLC	Project #: NS0502
Drilling Method: GEOPROBE 6620DT	Boring / Well Identification: <b>NSB-5</b>
Sampling Method: 4-FOOT MACROCORE	Location: COFFEY'S TEXACO, 48 TOURO ST., NEWPORT, RI
Screening Instrument: MINIRAE 2000 (10.6 eV)	Date: 5/28/2014
Depth to Water: ≈5.5'	Logged By: EG

<b>Riser:</b> Type: PVC	Diameter:	Length:	Well Seal:	Hole Diameter: 4.25"
<b>Screen:</b> Type: PVC	Slot:	Diameter:	Length:	Sand Pack: Total Depth: 11'

### BORING COMPLETION AND SAMPLE DATA

DEPTH (FEET)	SAMPLING ID	SAMPLE RECOVERY	MOISTURE CONTENT	SCREENING RESULTS	WELL CONST.	LITHOLOGY / REMARKS
1				ND		0 - 0.5' Asphalt
2		40"	Dry	ND		0.5' - 6' Medium & coarse SAND and GRANULE, some very coarse sand and pebble, few brick, coal and rock fragments, brown, some black
3						
4						
5		40"	Moist	ND		6' - 10' Medium SAND, some fine & coarse sand, few very granule and pebble, brown
6						
7				1.5		
8						
9		32"	Wet	0.8		
10						
11						10' - 11' SILTY SHALE FRAGMENTS & WEATHERED SHALE BEDROCK, greyish-brown
12					Boring only	
13					No well set	- EOB at 11'
14						
15						
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NOTES: ND = None detected above the instrument's detection limit of 0.2 parts per million.  
 NS = Not screened  
 EOB = End of boring

**Well Legend**

	Concrete	<div style="position: absolute; top: 0; left: 0; right: 0; border-bottom: 1px solid black;"></div> <div style="position: absolute; top: 10px; left: 0; right: 0; border-bottom: 1px solid black;"></div> <div style="position: absolute; top: 20px; left: 0; right: 0; border-bottom: 1px solid black;"></div> <div style="position: absolute; top: 30px; left: 0; right: 0; border-bottom: 1px solid black;"></div>
	Bentonite	
	Sand Pack	
	Native	

Riser  
Screen

**APPENDIX D**  
**GROUNDWATER GAUGING LOG**



**Groundwater Gauging Log  
 June 4, 2014  
 Coffey's Texaco  
 48 Touro Street  
 Newport, Rhode Island**

WELL #	M.P. ELEVATIONS	DEPTH TO PETROLEUM	DEPTH TO WATER	PETROLEUM THICKNESS	EQUIVALENT HD ELEVATION
NMW-1	NS	-	5.33	0.00	NS
NMW-2	NS	-	5.39	0.00	NS
NMW-3	NS	-	6.45	0.00	NS
MW-1	101.00	-	5.07	0.00	95.93
MW-2	101.24	-	5.54	0.00	95.70
MW-3	100.44	-	5.10	0.00	95.34
MW-18	102.29	-	5.26	0.00	97.03
MW-25	100.54	-	4.77	0.00	95.77
MW-29	99.12	-	5.12	0.00	94.00
MW-30	99.94	-	5.65	0.00	94.29
MW-31	100.55	-	5.07	0.00	95.48

M.P. Elevations from historical data and unconfirmed

- = No separate phase product identified  
 NS = Not surveyed

**APPENDIX E**  
**LABORATORY CERTIFICATES**



**REPORT OF ANALYTICAL RESULTS**

**NETLAB Case Number A0528-24**

Prepared for:

Newport Environmental  
PO BOX 957  
North Seituete, RI 02857

Report Date: June 3, 2014

Reviewed by:

Richard Warila  
Laboratory Director

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, RI 02904

(401) 353-3420

**SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:**

The samples listed in Table I were submitted to New England Testing Laboratory on May 28, 2014. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the samples provided to us by the client which are indicated on the custody record. The case number for this sample submission is A0528-24.

Custody records are included in this report.

**Site: Coffey's Texaco**

**TABLE I, Samples Submitted**

Sample ID	Date Sampled	Matrix	Analysis Requested
NSB-1 (0'-2')	5/28/14	Soil	Table II
NSB-1 (6'-8')	5/28/14	Soil	VOC's Only
NSB-2 (0'-2')	5/28/14	Soil	Table II
NMW-1 (0'-2')	5/28/14	Soil	Table II
NMW-1 (5'-7')	5/28/14	Soil	VOC's Only
NMW-2 (0'-2')	5/28/14	Soil	Table II
NMW-2 (5'-7')	5/28/14	Soil	TPH Only
NMW-3 (0'-2')	5/28/14	Soil	Table IV
NMW-3 (5'-6')	5/28/14	Soil	Table III
NSB-3 (0'-2')	5/28/14	Soil	Table II
NSB-3 (0'-2')	5/28/14	Soil	Table IV
NSB-3 (4'-5')	5/28/14	Soil	Table III

**TABLE II, Analysis and Methods**

<b>ANALYSIS</b>	<b>DETERMINATIVE METHOD</b>
Volatile Organic Compounds	8260B
PAHs	8270D
PCBs	8082A
Total Metals	
Arsenic	6010C
Barium	6010C
Cadmium	6010C
Chromium	6010C
Lead	6010C
Mercury	7471A
Selenium	6010C
Silver	6010C

**TABLE III, Analysis and Methods**

<b>ANALYSIS</b>	<b>DETERMINATIVE METHOD</b>
Total Petroleum Hydrocarbons	8100 Mod.
Volatile Organic Compounds	8260B

**TABLE IV, Analysis and Methods**

<b>ANALYSIS</b>	<b>DETERMINATIVE METHOD</b>
PAHs	8270D
PCBs	8082A
Total Metals	
Arsenic	6010C
Barium	6010C
Cadmium	6010C
Chromium	6010C
Lead	6010C
Mercury	7471A
Selenium	6010C
Silver	6010C

These methods are documented in:

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, USEPA/OSW.*

## **CASE NARRATIVE:**

### Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

### Metals

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

### Semi-volatile Compounds

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

Samples "NSB-1 (0-2), NSB-2 (0-2), and NMW-1 (0-2)" have elevated detection limits and one surrogate outside quality control limits due to matrix interference.

### Total Petroleum Hydrocarbons

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

### Volatile Organic Compounds

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

## **METALS RESULTS**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

**METALS RESULTS**



Case Number: A0528-24  
 Sample ID: NSB-1 (0'-2')  
 Date collected: 5/28/14  
 Matrix: SOIL  
 Solids, %: 94.8  
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	5.69	1.03	mg/kg	5/29/14	5/30/14
Barium	7440-39-3	3051A	6010C	19.4	0.51	mg/kg	5/29/14	5/30/14
Cadmium	7440-43-9	3051A	6010C	ND	0.51	mg/kg	5/29/14	5/30/14
Chromium	7440-47-3	3051A	6010C	6.91	0.51	mg/kg	5/29/14	5/30/14
Lead	7439-92-1	3051A	6010C	47.8	0.51	mg/kg	5/29/14	5/30/14
Mercury	7439-97-6	NA	7471B	ND	0.072	mg/kg	5/29/14	5/29/14
Selenium	7782-49-2	3051A	6010C	ND	1.03	mg/kg	5/29/14	5/30/14
Silver	7440-22-4	3051A	6010C	ND	0.51	mg/kg	5/29/14	5/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.



METALS RESULTS



Case Number: A0528-24  
 Sample ID: NSB-2 (0'-2')  
 Date collected: 5/28/14  
 Matrix: SOIL  
 Solids, %: 94.65  
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	3.61	1.04	mg/kg	5/29/14	5/30/14
Barium	7440-39-3	3051A	6010C	17.7	0.52	mg/kg	5/29/14	5/30/14
Cadmium	7440-43-9	3051A	6010C	ND	0.52	mg/kg	5/29/14	5/30/14
Chromium	7440-47-3	3051A	6010C	6.40	0.52	mg/kg	5/29/14	5/30/14
Lead	7439-92-1	3051A	6010C	39.0	0.52	mg/kg	5/29/14	5/30/14
Mercury	7439-97-6	NA	7471B	ND	0.073	mg/kg	5/29/14	5/29/14
Selenium	7782-49-2	3051A	6010C	ND	1.04	mg/kg	5/29/14	5/30/14
Silver	7440-22-4	3051A	6010C	ND	0.52	mg/kg	5/29/14	5/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

**METALS RESULTS**



Case Number: A0528-24  
 Sample ID: NMW-1 (0'-2')  
 Date collected: 5/28/14  
 Matrix: SOIL  
 Solids, %: 85.58  
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	4.11	1.10	mg/kg	5/29/14	5/30/14
Barium	7440-39-3	3051A	6010C	50.4	0.55	mg/kg	5/29/14	5/30/14
Cadmium	7440-43-9	3051A	6010C	ND	0.55	mg/kg	5/29/14	5/30/14
Chromium	7440-47-3	3051A	6010C	6.48	0.55	mg/kg	5/29/14	5/30/14
Lead	7439-92-1	3051A	6010C	113	0.55	mg/kg	5/29/14	5/30/14
Mercury	7439-97-6	NA	7471B	0.629	0.080	mg/kg	5/29/14	5/29/14
Selenium	7782-49-2	3051A	6010C	ND	1.10	mg/kg	5/29/14	5/30/14
Silver	7440-22-4	3051A	6010C	ND	0.55	mg/kg	5/29/14	5/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0528-24  
 Sample ID: NMW-2 (0'-2')  
 Date collected: 5/28/14  
 Matrix: SOIL  
 Solids, %: 84.44  
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	4.13	1.17	mg/kg	5/29/14	5/30/14
Barium	7440-39-3	3051A	6010C	61.2	0.58	mg/kg	5/29/14	5/30/14
Cadmium	7440-43-9	3051A	6010C	0.77	0.58	mg/kg	5/29/14	5/30/14
Chromium	7440-47-3	3051A	6010C	8.77	0.58	mg/kg	5/29/14	5/30/14
Lead	7439-92-1	3051A	6010C	126	0.58	mg/kg	5/29/14	5/30/14
Mercury	7439-97-6	NA	7471B	0.283	0.080	mg/kg	5/29/14	5/29/14
Selenium	7782-49-2	3051A	6010C	ND	1.17	mg/kg	5/29/14	5/30/14
Silver	7440-22-4	3051A	6010C	ND	0.58	mg/kg	5/29/14	5/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

**METALS RESULTS**



Case Number: A0528-24  
 Sample ID: NMW-3 (0'-2')  
 Date collected: 5/28/14  
 Matrix: SOIL  
 Solids, %: 81.07  
 Sample Type: Total

Analyst MM/JC/JM

		<b>Preparative</b>	<b>Analytical</b>		<b>Reporting</b>		<b>Date of</b>	<b>Date</b>
<b>Parameter</b>	<b>CAS Number</b>	<b>Method</b>	<b>Method</b>	<b>Result</b>	<b>Limit</b>	<b>Units</b>	<b>Preparation</b>	<b>Analyzed</b>
Arsenic	7440-38-2	3051A	6010C	3.72	1.22	mg/kg	5/29/14	5/30/14
Barium	7440-39-3	3051A	6010C	50.8	0.61	mg/kg	5/29/14	5/30/14
Cadmium	7440-43-9	3051A	6010C	0.66	0.61	mg/kg	5/29/14	5/30/14
Chromium	7440-47-3	3051A	6010C	8.31	0.61	mg/kg	5/29/14	5/30/14
Lead	7439-92-1	3051A	6010C	132	0.61	mg/kg	5/29/14	5/30/14
Mercury	7439-97-6	NA	7471B	0.711	0.082	mg/kg	5/29/14	5/29/14
Selenium	7782-49-2	3051A	6010C	ND	1.22	mg/kg	5/29/14	5/30/14
Silver	7440-22-4	3051A	6010C	ND	0.61	mg/kg	5/29/14	5/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Case Number: A0528-24  
 Sample ID: NSB-3 (0'-2')  
 Date collected: 5/28/14  
 Matrix: SOIL  
 Solids, %: 78.6  
 Sample Type: Total

Analyst MM/JC/JM

Parameter	CAS Number	Preparative Method	Analytical Method	Result	Reporting Limit	Units	Date of Preparation	Date Analyzed
Arsenic	7440-38-2	3051A	6010C	3.74	1.24	mg/kg	5/29/14	5/30/14
Barium	7440-39-3	3051A	6010C	47.2	0.62	mg/kg	5/29/14	5/30/14
Cadmium	7440-43-9	3051A	6010C	ND	0.62	mg/kg	5/29/14	5/30/14
Chromium	7440-47-3	3051A	6010C	7.84	0.62	mg/kg	5/29/14	5/30/14
Lead	7439-92-1	3051A	6010C	159	0.62	mg/kg	5/29/14	5/30/14
Mercury	7439-97-6	NA	7471B	0.278	0.088	mg/kg	5/29/14	5/29/14
Selenium	7782-49-2	3051A	6010C	ND	1.24	mg/kg	5/29/14	5/30/14
Silver	7440-22-4	3051A	6010C	ND	0.62	mg/kg	5/29/14	5/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

METALS RESULTS



Sample ID: Preparation Blank  
 Matrix: SOIL  
 Solids, %: 100  
 Sample Type: Total

Analyst MM/JC/JM

		Preparative	Analytical		Reporting		Date of	Date
Parameter	CAS Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Arsenic	7440-38-2	3051A	6010C	ND	0.97	mg/kg	5/29/14	5/30/14
Barium	7440-39-3	3051A	6010C	ND	1.00	mg/kg	5/29/14	5/30/14
Cadmium	7440-43-9	3051A	6010C	ND	0.48	mg/kg	5/29/14	5/30/14
Chromium	7440-47-3	3051A	6010C	ND	0.48	mg/kg	5/29/14	5/30/14
Lead	7439-92-1	3051A	6010C	ND	0.48	mg/kg	5/29/14	5/30/14
Mercury	7439-97-6	NA	7471B	ND	0.067	mg/kg	5/29/14	5/29/14
Selenium	7782-49-2	3051A	6010C	ND	0.97	mg/kg	5/29/14	5/30/14
Silver	7440-22-4	3051A	6010C	ND	0.48	mg/kg	5/29/14	5/30/14

ND indicates Not Detected.

All results are reported on a dry weight basis.

## LABORATORY CONTROL SAMPLE RECOVERY

Internal

Parameter	True Value	Result	Units	Recovery, %	LCL, %	UCL, %	Date Analyzed
Arsenic	13.3	11.3	mg/kg	85	80	120	5/30/14
Barium	66.7	54.7	mg/kg	82	80	115	5/30/14
Cadmium	66.7	58.1	mg/kg	87	80	113	5/30/14
Chromium	66.7	59.0	mg/kg	88	80	115	5/30/14
Lead	66.7	54.6	mg/kg	82	80	114	5/30/14
Mercury	0.133	0.145	mg/kg	109	80	120	5/29/14
Selenium	13.3	11.4	mg/kg	86	80	120	5/30/14
Silver	26.7	22.7	mg/kg	85	80	120	5/30/14

## **RESULTS: PCBs**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.



<b>Sample: NSB-1 (0-2')</b>		Analyst's Initials: BJ
<b>Case No.: A0528-24</b>		
<b>Date Collected: 5/28/14</b>		
<b>Sample Matrix: Soil</b>		
<b>Subject: PCBs</b>	Date Extracted	Date Analyzed
<b>Prep Method: EPA 3546</b>	6/2/14	6/2/14
<b>Analytical Method: EPA 8082A</b>		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	62	45-109
DCBP	61	53-127

\*Dry Weight Basis  
N.D. = Not Detected

<b>Sample: NSB-2 (0-2')</b>		Analyst's Initials: BJ
<b>Case No.: A0528-24</b>		
<b>Date Collected: 5/28/14</b>		
<b>Sample Matrix: Soil</b>		
<b>Subject: PCBs</b>	Date Extracted	Date Analyzed
<b>Prep Method: EPA 3546</b>	6/2/14	6/2/14
<b>Analytical Method: EPA 8082A</b>		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	54	45-109
DCBP	53	53-127

\*Dry Weight Basis  
N.D. = Not Detected

<b>Sample: NMW-1 (0-2')</b>		Analyst's Initials: BJ
<b>Case No.: A0528-24</b>		
<b>Date Collected: 5/28/14</b>		
<b>Sample Matrix: Soil</b>		
<b>Subject: PCBs</b>	Date Extracted	Date Analyzed
<b>Prep Method: EPA 3546</b>	6/2/14	6/2/14
<b>Analytical Method: EPA 8082A</b>		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	52	45-109
DCBP	60	53-127

\*Dry Weight Basis  
 N.D. = Not Detected

<b>Sample: NMW-2 (0-2')</b>		Analyst's Initials: BJ
<b>Case No.: A0528-24</b>		
<b>Date Collected: 5/28/14</b>		
<b>Sample Matrix: Soil</b>		
<b>Subject: PCBs</b>	Date Extracted	Date Analyzed
<b>Prep Method: EPA 3546</b>	6/2/14	6/2/14
<b>Analytical Method: EPA 8082A</b>		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	72	45-109
DCBP	79	53-127

\*Dry Weight Basis  
N.D. = Not Detected

<b>Sample: NMW-3 (0-2')</b>		Analyst's Initials: BJ
<b>Case No.: A0528-24</b>		
<b>Date Collected: 5/28/14</b>		
<b>Sample Matrix: Soil</b>		
<b>Subject: PCBs</b>	Date Extracted	Date Analyzed
<b>Prep Method: EPA 3546</b>	6/2/14	6/2/14
<b>Analytical Method: EPA 8082A</b>		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	77	45-109
DCBP	65	53-127

\*Dry Weight Basis  
 N.D. = Not Detected

<b>Sample: NSB-3 (0-2')</b>		Analyst's Initials: BJ
<b>Case No.: A0528-24</b>		
<b>Date Collected: 5/28/14</b>		
<b>Sample Matrix: Soil</b>		
<b>Subject: PCBs</b>	Date Extracted	Date Analyzed
<b>Prep Method: EPA 3546</b>	6/2/14	6/2/14
<b>Analytical Method: EPA 8082A</b>		
Compound	Concentration ug/kg* (ppb)	Reporting Limit ug/kg* (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	63	45-109
DCBP	63	53-127

\*Dry Weight Basis  
N.D. = Not Detected

<b>Sample: Method Blank</b>		Analyst's Initials: BJ
<b>Case No.: A0528-24</b>		
<b>Date Collected: NA</b>		
<b>Sample Matrix: Soil</b>		
<b>Subject: PCBs</b>	Date Extracted	Date Analyzed
<b>Prep Method: EPA 3546</b>	6/2/14	6/2/14
<b>Analytical Method: EPA 8082A</b>		
Compound	Concentration ug/kg (ppb)	Reporting Limit ug/kg (ppb)
Aroclor-1221	N.D.	100
Aroclor-1232	N.D.	100
Aroclor-1016	N.D.	100
Aroclor-1242	N.D.	100
Aroclor-1248	N.D.	100
Aroclor-1254	N.D.	100
Aroclor-1260	N.D.	100
Aroclor-1262	N.D.	100
Aroclor-1268	N.D.	100
Surrogates:		
Compound	% Recovery	Limits
TCMX	82	45-109
DCBP	90	53-127

N.D. = Not Detected

### PCB Laboratory Control Spike

<b>Subject: PCB</b>	Date Extracted			Date Analyzed
<b>Prep Method: EPA 3546</b>	6/2/14			6/2/14
<b>Analytical Method: EPA 8082A</b>				
Compound	Amount Spiked mg/kg	Result mg/kg	Recovery %	Recovery Limits
Aroclor 1016	0.500	0.467	93	53-140
Aroclor 1260	0.500	0.500	100	60-126
Surrogates:				
Compound	% Recovery	Limits		
TCMX	76	45-109		
DCBP	82	53-127		



## **RESULTS: SEMIVOLATILE ORGANIC COMPOUNDS**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

**NSB-1 (0'-2')**

Lab Name: New England Testing Laboratory Contract: Coffey's Te  
 Lab Code: RI010 Case No.: A0528-24 SAS No.: Newpo SDG No.: Newport E  
 Matrix: (soil/water) SOIL Lab Sample ID: NSB-1 (0'-2')  
 Sample wt/vol: 15.063 (g/ml) G Lab File ID: B060214.D  
 Level: (low/med) LOW Date Received: 5/28/2014  
 % Moisture: 5.2 decanted:(Y/N) N Date Extracted: 5/29/2014  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 6/2/2014  
 Injection Volume: 1.0 (uL) Dilution Factor: 5.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
91-20-3	Naphthalene	3500	U
91-57-6	2-Methylnaphthalene	3500	U
208-96-8	Acenaphthylene	3500	U
83-32-9	Acenaphthene	3500	U
132-64-9	Dibenzofuran	3500	U
86-73-7	Fluorene	3500	U
85-01-8	Phenanthrene	3500	U
120-12-7	Anthracene	3500	U
206-44-0	Fluoranthene	5800	
129-00-0	Pyrene	8300	
56-55-3	Benzo(a)anthracene	4100	
218-01-9	Chrysene	4600	
205-99-2	Benzo(b)fluoranthene	6400	
207-08-9	Benzo(k)fluoranthene	3500	U
50-32-8	Benzo(a)pyrene	5600	
193-39-5	Indeno(1,2,3-cd)pyrene	4400	
53-70-3	Dibenz(a,h)anthracene	3500	U
191-24-2	Benzo(g,h,i)perylene	4600	

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

**NSB-2 (0'-2')**

Lab Name: New England Testing Laboratory Contract: Coffey's Te  
 Lab Code: RI010 Case No.: A0528-24 SAS No.: Newpo SDG No.: Newport E  
 Matrix: (soil/water) SOIL Lab Sample ID: NSB-2 (0'-2')  
 Sample wt/vol: 15.37 (g/ml) G Lab File ID: B060213.D  
 Level: (low/med) LOW Date Received: 5/28/2014  
 % Moisture: 5.35 decanted:(Y/N) N Date Extracted: 5/29/2014  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 6/2/2014  
 Injection Volume: 1.0 (uL) Dilution Factor: 5.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
91-20-3	Naphthalene	3400	U
91-57-6	2-Methylnaphthalene	3400	U
208-96-8	Acenaphthylene	3400	U
83-32-9	Acenaphthene	3400	U
132-64-9	Dibenzofuran	3400	U
86-73-7	Fluorene	3400	U
85-01-8	Phenanthrene	3400	U
120-12-7	Anthracene	3400	U
206-44-0	Fluoranthene	6700	
129-00-0	Pyrene	12000	
56-55-3	Benzo(a)anthracene	5400	
218-01-9	Chrysene	6100	
205-99-2	Benzo(b)fluoranthene	9000	
207-08-9	Benzo(k)fluoranthene	3400	U
50-32-8	Benzo(a)pyrene	8200	
193-39-5	Indeno(1,2,3-cd)pyrene	6300	
53-70-3	Dibenz(a,h)anthracene	3400	U
191-24-2	Benzo(g,h,i)perylene	6600	

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

**NMW-1 (0'-2')**

Lab Name: New England Testing Laboratory Contract: Coffey's Te  
 Lab Code: RI010 Case No.: A0528-24 SAS No.: Newpo SDG No.: Newport E  
 Matrix: (soil/water) SOIL Lab Sample ID: NMW-1 (0'-2')  
 Sample wt/vol: 15.214 (g/ml) G Lab File ID: B060212.D  
 Level: (low/med) LOW Date Received: 5/28/2014  
 % Moisture: 14.42 decanted:(Y/N) N Date Extracted: 5/29/2014  
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 6/2/2014  
 Injection Volume: 1.0 (uL) Dilution Factor: 2.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
91-20-3	Naphthalene	333	U
91-57-6	2-Methylnaphthalene	333	U
208-96-8	Acenaphthylene	333	U
83-32-9	Acenaphthene	333	U
132-64-9	Dibenzofuran	333	U
86-73-7	Fluorene	333	U
85-01-8	Phenanthrene	470	
120-12-7	Anthracene	333	U
206-44-0	Fluoranthene	480	
129-00-0	Pyrene	810	
56-55-3	Benzo(a)anthracene	550	
218-01-9	Chrysene	580	
205-99-2	Benzo(b)fluoranthene	730	
207-08-9	Benzo(k)fluoranthene	333	U
50-32-8	Benzo(a)pyrene	580	
193-39-5	Indeno(1,2,3-cd)pyrene	440	
53-70-3	Dibenz(a,h)anthracene	333	U
191-24-2	Benzo(g,h,i)perylene	470	

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

**NMW-2 (0'-2')**

Lab Name: New England Testing Laboratory Contract: Coffey's Te  
 Lab Code: RI010 Case No.: A0528-24 SAS No.: Newpo SDG No.: Newport E  
 Matrix: (soil/water) SOIL Lab Sample ID: NMW-2 (0'-2')  
 Sample wt/vol: 15.053 (g/ml) G Lab File ID: B060211.D  
 Level: (low/med) LOW Date Received: 5/28/2014  
 % Moisture: 15.56 decanted:(Y/N) N Date Extracted: 5/29/2014  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/2/2014  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
91-20-3	Naphthalene	160	U
91-57-6	2-Methylnaphthalene	160	U
208-96-8	Acenaphthylene	160	U
83-32-9	Acenaphthene	160	U
132-64-9	Dibenzofuran	160	U
86-73-7	Fluorene	160	U
85-01-8	Phenanthrene	270	
120-12-7	Anthracene	160	U
206-44-0	Fluoranthene	950	
129-00-0	Pyrene	1100	
56-55-3	Benzo(a)anthracene	630	
218-01-9	Chrysene	660	
205-99-2	Benzo(b)fluoranthene	830	
207-08-9	Benzo(k)fluoranthene	300	
50-32-8	Benzo(a)pyrene	600	
193-39-5	Indeno(1,2,3-cd)pyrene	450	
53-70-3	Dibenz(a,h)anthracene	160	U
191-24-2	Benzo(g,h,i)perylene	490	

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

**NMW-3 (0'-2')**

Lab Name: New England Testing Laboratory Contract: Coffey's Te  
 Lab Code: RI010 Case No.: A0528-24 SAS No.: Newpo SDG No.: Newport E  
 Matrix: (soil/water) SOIL Lab Sample ID: NMW-3 (0'-2')  
 Sample wt/vol: 15.31 (g/ml) G Lab File ID: B060209.D  
 Level: (low/med) LOW Date Received: 5/28/2014  
 % Moisture: 18.89 decanted:(Y/N) N Date Extracted: 5/29/2014  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/2/2014  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
91-20-3	Naphthalene	160	U
91-57-6	2-Methylnaphthalene	160	U
208-96-8	Acenaphthylene	160	U
83-32-9	Acenaphthene	160	U
132-64-9	Dibenzofuran	160	U
86-73-7	Fluorene	160	U
85-01-8	Phenanthrene	670	
120-12-7	Anthracene	160	U
206-44-0	Fluoranthene	590	
129-00-0	Pyrene	780	
56-55-3	Benzo(a)anthracene	330	
218-01-9	Chrysene	360	
205-99-2	Benzo(b)fluoranthene	430	
207-08-9	Benzo(k)fluoranthene	160	U
50-32-8	Benzo(a)pyrene	310	
193-39-5	Indeno(1,2,3-cd)pyrene	200	
53-70-3	Dibenz(a,h)anthracene	160	U
191-24-2	Benzo(g,h,i)perylene	180	

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

**NSB-3 (0'-2')**

Lab Name: New England Testing Laboratory Contract: Coffey's Te  
 Lab Code: RI010 Case No.: A0528-24 SAS No.: Newpo SDG No.: Newport E  
 Matrix: (soil/water) SOIL Lab Sample ID: NSB-3 (0'-2')  
 Sample wt/vol: 15.108 (g/ml) G Lab File ID: B060210.D  
 Level: (low/med) LOW Date Received: 5/28/2014  
 % Moisture: 21.4 decanted:(Y/N) N Date Extracted: 5/29/2014  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/2/2014  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
91-20-3	Naphthalene	170	U
91-57-6	2-Methylnaphthalene	170	U
208-96-8	Acenaphthylene	170	U
83-32-9	Acenaphthene	170	U
132-64-9	Dibenzofuran	170	U
86-73-7	Fluorene	170	U
85-01-8	Phenanthrene	510	
120-12-7	Anthracene	170	U
206-44-0	Fluoranthene	900	
129-00-0	Pyrene	1300	
56-55-3	Benzo(a)anthracene	530	
218-01-9	Chrysene	620	
205-99-2	Benzo(b)fluoranthene	710	
207-08-9	Benzo(k)fluoranthene	240	
50-32-8	Benzo(a)pyrene	550	
193-39-5	Indeno(1,2,3-cd)pyrene	380	
53-70-3	Dibenz(a,h)anthracene	170	U
191-24-2	Benzo(g,h,i)perylene	360	

1B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

**BSS052914**

Lab Name: New England Testing Laboratory Contract: Coffey's Te  
 Lab Code: RI010 Case No.: A0528-24 SAS No.: Newpo SDG No.: Newport E  
 Matrix: (soil/water) SOIL Lab Sample ID: BSS052914  
 Sample wt/vol: 15 (g/ml) G Lab File ID: B060203.D  
 Level: (low/med) LOW Date Received: 5/28/2014  
 % Moisture: 0 decanted:(Y/N) N Date Extracted: 5/29/2014  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/2/2014  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
91-20-3	Naphthalene	130	U
91-57-6	2-Methylnaphthalene	130	U
208-96-8	Acenaphthylene	130	U
83-32-9	Acenaphthene	130	U
132-64-9	Dibenzofuran	130	U
86-73-7	Fluorene	130	U
85-01-8	Phenanthrene	130	U
120-12-7	Anthracene	130	U
206-44-0	Fluoranthene	130	U
129-00-0	Pyrene	130	U
56-55-3	Benzo(a)anthracene	130	U
218-01-9	Chrysene	130	U
205-99-2	Benzo(b)fluoranthene	130	U
207-08-9	Benzo(k)fluoranthene	130	U
50-32-8	Benzo(a)pyrene	130	U
193-39-5	Indeno(1,2,3-cd)pyrene	130	U
53-70-3	Dibenz(a,h)anthracene	130	U
191-24-2	Benzo(g,h,i)perylene	130	U



2  
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab New England Testing Laboratory Contract Coffey's Texaco  
 Lab RI010 Case A0528-24 SAS Newpo SDG Newport  
 Level: LOW

	EPA SAMPLE	S1 #	S2 #	S3 #	TOT OUT
01	BSS052914	108	107	123	0
02	LSS052914	95	89	119	0
03	NMW-3 (0'-2')	87	89	112	0
04	NSB-3 (0'-2')	86	92	117	0
05	NMW-2 (0'-2')	95	101	115	0
06	NMW-1 (0'-2')	90	111	140 *	1
07	NSB-2 (0'-2')	100	125	150 *	1
08	NSB-1 (0'-2')	100	125	175 *	1

QC LIMITS

S1	=	Nitrobenzene-d5	(30-130)
S2	=	2-Fluorobiphenyl	(30-130)
S3	=	Terphenyl-d14	(30-130)

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits  
 D Surrogate diluted out

## Semivolatile Soil Laboratory Control Spike

Date Extracted: 5/29/2014

Date Analyzed: 6/2/2014

	Amount Spiked	Result,	Recovery	Lower Recovery	Upper Recovery
	ug/Kg	ug/Kg	%	Limit	Limit
Naphthalene	3333	2688	81	40	140
2-Methylnaphthalene	3333	2705	81	40	140
Acenaphthylene	3333	2683	80	40	140
Acenaphthene	3333	2635	79	40	140
Dibenzofuran	3333	2657	80	40	140
Fluorene	3333	2406	72	40	140
Phenanthrene	3333	2609	78	40	140
Anthracene	3333	2720	82	40	140
Fluoranthene	3333	2630	79	40	140
Pyrene	3333	3251	98	40	140
Benzo(a)anthracene	3333	2746	82	40	140
Chrysene	3333	2921	88	40	140
Benzo(b)fluoranthene	3333	3084	93	40	140
Benzo(k)fluoranthene	3333	3094	93	40	140
Benzo(a)pyrene	3333	2895	87	40	140
Indeno(1,2,3-cd)pyrene	3333	2705	81	40	140
Dibenz(a,h)anthracene	3333	2859	86	40	140
Benzo(g,h,i)perylene	3333	2715	81	40	140

<b>Sample: NMW-3 (5'-6')</b>		Analyst's Initials: BJ
<b>Case No. A0528-24</b>		
<b>Date Collected: 5/28/14</b>		
<b>Sample Matrix: Soil</b>		
<b>Prep Method: EPA 3546</b>	Date Extracted	Date Analyzed
<b>Analytical Method: EPA 8100 mod.</b>	5/29/14	5/30/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit
C <sub>9</sub> – C <sub>18</sub>	184	15
C <sub>19</sub> – C <sub>40</sub>	3746	15
Total Petroleum Hydrocarbons	3930	33
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	80	62-151

<b>Sample: NSB-3 (4'-5')</b>		Analyst's Initials: BJ
<b>Case No. A0528-24</b>		
<b>Date Collected: 5/28/14</b>		
<b>Sample Matrix: Soil</b>		
<b>Prep Method: EPA 3546</b>	Date Extracted	Date Analyzed
<b>Analytical Method: EPA 8100 mod.</b>	5/29/14	5/30/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit
C <sub>9</sub> – C <sub>18</sub>	<15.0	15
C <sub>19</sub> – C <sub>40</sub>	351	15
Total Petroleum Hydrocarbons	351	30
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	95	62-151

\*Dry Weight Basis

<b>Sample: NMW-2 (5'-7')</b>		Analyst's Initials: BJ
<b>Case No. A0528-24</b>		
<b>Date Collected: 5/28/14</b>		
<b>Sample Matrix: Soil</b>		
<b>Prep Method: EPA 3546</b>	Date Extracted	Date Analyzed
<b>Analytical Method: EPA 8100 mod.</b>	5/29/14	6/2/14
Compound	Concentration, mg/kg* (ppm)	Reporting Limit
C <sub>9</sub> – C <sub>18</sub>	133	15
C <sub>19</sub> – C <sub>40</sub>	451	15
Total Petroleum Hydrocarbons	548	30
Surrogates:		
Compound	% Recovery	Limits
Chlorooctadecane	113	62-151

\*Dry Weight Basis  
N.D.= Not Detected

## **RESULTS: VOLATILE ORGANIC COMPOUNDS**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NSB-1 (0-2)  
 Matrix: (soil/water) SOIL Lab File ID: D053027.D  
 Sample wt/vol: 9.9 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 5.2 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	53	U
74-83-9	Bromomethane	53	U
75-00-3	Chloroethane	53	U
67-64-1	Acetone	270	U
75-35-4	1,1-Dichloroethene	53	U
75-15-0	Carbon Disulfide	53	U
75-09-2	Methylene Chloride	53	U
1634-04-4	tert-Butyl methyl ether	53	U
156-60-5	trans-1,2 Dichloroethene	53	U
75-34-3	1,1-Dichloroethane	53	U
78-93-3	2-Butanone	270	U
594-20-7	2,2-Dichloropropane	53	U
156-59-2	cis-1,2-Dichloroethene	53	U
67-66-3	Chloroform	53	U
74-97-5	Bromochloromethane	53	U
71-55-6	1,1,1-Trichloroethane	53	U
563-58-6	1,1- Dichloropropene	53	U
56-23-5	Carbon Tetrachloride	53	U
71-43-2	Benzene	53	U
107-06-2	1,2-Dichloroethane	53	U
79-01-6	Trichloroethene	53	U
78-87-5	1,2-Dichloropropane	53	U
75-27-4	Bromodichloromethane	53	U
74-95-3	Dibromomethane	53	U
108-10-1	4-Methyl-2-pentanone	270	U
106-93-4	Ethylene Dibromide	53	U
10061-01-5	cis-1,3-Dichloropropene	53	U
108-88-3	Toluene	53	U
10061-02-6	Trans-1,3-Dichloropropene	53	U
79-00-5	1,1,2-Trichloroethane	53	U
591-78-6	2-Hexanone	270	U
127-18-4	Tetrachloroethene	53	U
124-48-1	Chlorodibromomethane	53	U
108-90-7	Chlorobenzene	53	U
630-20-6	1,1,1,2-Tetrachloroethane	53	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NSB-1 (0-2)  
 Matrix: (soil/water) SOIL Lab File ID: D053027.D  
 Sample wt/vol: 9.9 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 5.2 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	53	U
1330-20-7	m & p-Xylene	110	U
95-47-6	o-Xylene	53	U
100-42-5	Styrene	53	U
75-25-2	Bromoform	53	U
98-82-8	Isopropylbenzene	53	U
79-34-5	1,1,2,2-Tetrachloroethane	53	U
108-86-1	Bromobenzene	53	U
96-18-4	1,2,3-Trichloropropane	53	U
95-49-8	2-Chlorotoluene	53	U
103-65-1	n-Propylbenzene	53	U
108-67-8	1,3,5-Trimethylbenzene	85	
106-43-4	4-Chlorotoluene	53	U
98-06-6	tert-Butylbenzene	53	U
95-63-6	1,2,4-Trimethylbenzene	85	
135-98-8	sec-Butylbenzene	53	U
99-87-6	p-Isopropyltoluene	53	U
75-87-3	Chloromethane	53	U
75-65-0	tert butyl alcohol	53	U
541-73-1	1,3-Dichlorobenzene	53	U
109-99-9	Tetrahydrofuran	53	U
106-46-7	1,4-Dichlorobenzene	53	U
60-29-7	Diethyl Ether	53	U
104-51-8	n-butyl Benzene	53	U
95-50-1	1,2-Dichlorobenzene	53	U
96-12-8	1,2-Dibromo-3-chloropropane	53	U
120-82-1	1,2,4-Trichlorobenzene	53	U
87-68-3	Hexachlorobutadiene	53	U
91-20-3	Naphthalene	78	
87-61-6	1,2,3-Trichlorobenzene	53	U
994-05-8	Tert-amyl Methyl Ether	53	U
75-71-8	Dichlorodifluoromethane	53	U
142-28-9	1,3-Dichloropropane	53	U
75-69-4	Trichlorofluoromethane	53	U
637-92-3	Ethyl Tert-butyl ether	53	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NSB-1 (0-2)  
 Matrix: (soil/water) SOIL Lab File ID: D053027.D  
 Sample wt/vol: 9.9 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 5.2 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	53	U
123-91-1	1,4-Dioxane	27000	U

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New England Testing Laboratory, Inc.



VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NSB-1 (6-8)  
 Matrix: (soil/water) SOIL Lab File ID: D053030.D  
 Sample wt/vol: 7.7 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 12.99 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0, 10  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	75	U
74-83-9	Bromomethane	75	U
75-00-3	Chloroethane	75	U
67-64-1	Acetone	370	U
75-35-4	1,1-Dichloroethene	75	U
75-15-0	Carbon Disulfide	75	U
75-09-2	Methylene Chloride	75	U
1634-04-4	tert-Butyl methyl ether	75	U
156-60-5	trans-1,2 Dichloroethene	75	U
75-34-3	1,1-Dichloroethane	75	U
78-93-3	2-Butanone	370	U
594-20-7	2,2-Dichloropropane	75	U
156-59-2	cis-1,2-Dichloroethene	75	U
67-66-3	Chloroform	75	U
74-97-5	Bromochloromethane	75	U
71-55-6	1,1,1-Trichloroethane	75	U
563-58-6	1,1- Dichloropropene	75	U
56-23-5	Carbon Tetrachloride	75	U
71-43-2	Benzene	3500	
107-06-2	1,2-Dichloroethane	75	U
79-01-6	Trichloroethene	75	U
78-87-5	1,2-Dichloropropane	75	U
75-27-4	Bromodichloromethane	75	U
74-95-3	Dibromomethane	75	U
108-10-1	4-Methyl-2-pentanone	370	U
106-93-4	Ethylene Dibromide	75	U
10061-01-5	cis-1,3-Dichloropropene	75	U
108-88-3	Toluene	48800	
10061-02-6	Trans-1,3-Dichloropropene	75	U
79-00-5	1,1,2-Trichloroethane	75	U
591-78-6	2-Hexanone	370	U
127-18-4	Tetrachloroethene	75	U
124-48-1	Chlorodibromomethane	75	U
108-90-7	Chlorobenzene	75	U
630-20-6	1,1,1,2-Tetrachloroethane	75	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NSB-1 (6-8)  
 Matrix: (soil/water) SOIL Lab File ID: D053030.D  
 Sample wt/vol: 7.7 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 12.99 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0, 10  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	50200	
1330-20-7	m & p-Xylene	227000	
95-47-6	o-Xylene	84000	
100-42-5	Styrene	75	U
75-25-2	Bromoform	75	U
98-82-8	Isopropylbenzene	7400	
79-34-5	1,1,2,2-Tetrachloroethane	75	U
108-86-1	Bromobenzene	75	U
96-18-4	1,2,3-Trichloropropane	75	U
95-49-8	2-Chlorotoluene	75	U
103-65-1	n-Propylbenzene	12000	
108-67-8	1,3,5-Trimethylbenzene	30700	
106-43-4	4-Chlorotoluene	75	U
98-06-6	tert-Butylbenzene	15000	
95-63-6	1,2,4-Trimethylbenzene	109000	
135-98-8	sec-Butylbenzene	1400	
99-87-6	p-Isopropyltoluene	8200	
75-87-3	Chloromethane	75	U
75-65-0	tert butyl alcohol	75	U
541-73-1	1,3-Dichlorobenzene	75	U
109-99-9	Tetrahydrofuran	75	U
106-46-7	1,4-Dichlorobenzene	75	U
60-29-7	Diethyl Ether	75	U
104-51-8	n-butyl Benzene	15500	
95-50-1	1,2-Dichlorobenzene	75	U
96-12-8	1,2-Dibromo-3-chloropropane	75	U
120-82-1	1,2,4-Trichlorobenzene	75	U
87-68-3	Hexachlorobutadiene	75	U
91-20-3	Naphthalene	6200	
87-61-6	1,2,3-Trichlorobenzene	75	U
994-05-8	Tert-amyl Methyl Ether	75	U
75-71-8	Dichlorodifluoromethane	75	U
142-28-9	1,3-Dichloropropane	75	U
75-69-4	Trichlorofluoromethane	75	U
637-92-3	Ethyl Tert-butyl ether	75	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NSB-1 (6-8)  
 Matrix: (soil/water) SOIL Lab File ID: D053030.D  
 Sample wt/vol: 7.7 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 12.99 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0, 10  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	75	U
123-91-1	1,4-Dioxane	37000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NSB-2 (0-2)  
 Matrix: (soil/water) SOIL Lab File ID: D053026.D  
 Sample wt/vol: 8.5 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 5.35 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	62	U
74-83-9	Bromomethane	62	U
75-00-3	Chloroethane	62	U
67-64-1	Acetone	310	U
75-35-4	1,1-Dichloroethene	62	U
75-15-0	Carbon Disulfide	62	U
75-09-2	Methylene Chloride	62	U
1634-04-4	tert-Butyl methyl ether	62	U
156-60-5	trans-1,2 Dichloroethene	62	U
75-34-3	1,1-Dichloroethane	62	U
78-93-3	2-Butanone	310	U
594-20-7	2,2-Dichloropropane	62	U
156-59-2	cis-1,2-Dichloroethene	62	U
67-66-3	Chloroform	62	U
74-97-5	Bromochloromethane	62	U
71-55-6	1,1,1-Trichloroethane	62	U
563-58-6	1,1- Dichloropropene	62	U
56-23-5	Carbon Tetrachloride	62	U
71-43-2	Benzene	62	U
107-06-2	1,2-Dichloroethane	62	U
79-01-6	Trichloroethene	62	U
78-87-5	1,2-Dichloropropane	62	U
75-27-4	Bromodichloromethane	62	U
74-95-3	Dibromomethane	62	U
108-10-1	4-Methyl-2-pentanone	310	U
106-93-4	Ethylene Dibromide	62	U
10061-01-5	cis-1,3-Dichloropropene	62	U
108-88-3	Toluene	62	U
10061-02-6	Trans-1,3-Dichloropropene	62	U
79-00-5	1,1,2-Trichloroethane	62	U
591-78-6	2-Hexanone	310	U
127-18-4	Tetrachloroethene	62	U
124-48-1	Chlorodibromomethane	62	U
108-90-7	Chlorobenzene	62	U
630-20-6	1,1,1,2-Tetrachloroethane	62	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NSB-2 (0-2)  
 Matrix: (soil/water) SOIL Lab File ID: D053026.D  
 Sample wt/vol: 8.5 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 5.35 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	62	U
1330-20-7	m & p-Xylene	120	U
95-47-6	o-Xylene	62	U
100-42-5	Styrene	62	U
75-25-2	Bromoform	62	U
98-82-8	Isopropylbenzene	62	U
79-34-5	1,1,2,2-Tetrachloroethane	62	U
108-86-1	Bromobenzene	62	U
96-18-4	1,2,3-Trichloropropane	62	U
95-49-8	2-Chlorotoluene	62	U
103-65-1	n-Propylbenzene	62	U
108-67-8	1,3,5-Trimethylbenzene	62	U
106-43-4	4-Chlorotoluene	62	U
98-06-6	tert-Butylbenzene	62	U
95-63-6	1,2,4-Trimethylbenzene	62	U
135-98-8	sec-Butylbenzene	62	U
99-87-6	p-Isopropyltoluene	62	U
75-87-3	Chloromethane	62	U
75-65-0	tert butyl alcohol	62	U
541-73-1	1,3-Dichlorobenzene	62	U
109-99-9	Tetrahydrofuran	62	U
106-46-7	1,4-Dichlorobenzene	62	U
60-29-7	Diethyl Ether	62	U
104-51-8	n-butyl Benzene	62	U
95-50-1	1,2-Dichlorobenzene	62	U
96-12-8	1,2-Dibromo-3-chloropropane	62	U
120-82-1	1,2,4-Trichlorobenzene	62	U
87-68-3	Hexachlorobutadiene	62	U
91-20-3	Naphthalene	120	
87-61-6	1,2,3-Trichlorobenzene	62	U
994-05-8	Tert-amyl Methyl Ether	62	U
75-71-8	Dichlorodifluoromethane	62	U
142-28-9	1,3-Dichloropropane	62	U
75-69-4	Trichlorofluoromethane	62	U
637-92-3	Ethyl Tert-butyl ether	62	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NSB-2 (0-2)  
 Matrix: (soil/water) SOIL Lab File ID: D053026.D  
 Sample wt/vol: 8.5 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 5.35 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	62	U
123-91-1	1,4-Dioxane	31000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-1 (0-2)  
 Matrix: (soil/water) SOIL Lab File ID: D053025.D  
 Sample wt/vol: 7.6 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 14.42 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	76	U
74-83-9	Bromomethane	76	U
75-00-3	Chloroethane	76	U
67-64-1	Acetone	380	U
75-35-4	1,1-Dichloroethene	76	U
75-15-0	Carbon Disulfide	76	U
75-09-2	Methylene Chloride	76	U
1634-04-4	tert-Butyl methyl ether	76	U
156-60-5	trans-1,2 Dichloroethene	76	U
75-34-3	1,1-Dichloroethane	76	U
78-93-3	2-Butanone	380	U
594-20-7	2,2-Dichloropropane	76	U
156-59-2	cis-1,2-Dichloroethene	76	U
67-66-3	Chloroform	76	U
74-97-5	Bromochloromethane	76	U
71-55-6	1,1,1-Trichloroethane	76	U
563-58-6	1,1- Dichloropropene	76	U
56-23-5	Carbon Tetrachloride	76	U
71-43-2	Benzene	220	
107-06-2	1,2-Dichloroethane	76	U
79-01-6	Trichloroethene	76	U
78-87-5	1,2-Dichloropropane	76	U
75-27-4	Bromodichloromethane	76	U
74-95-3	Dibromomethane	76	U
108-10-1	4-Methyl-2-pentanone	380	U
106-93-4	Ethylene Dibromide	76	U
10061-01-5	cis-1,3-Dichloropropene	76	U
108-88-3	Toluene	76	U
10061-02-6	Trans-1,3-Dichloropropene	76	U
79-00-5	1,1,2-Trichloroethane	76	U
591-78-6	2-Hexanone	380	U
127-18-4	Tetrachloroethene	76	U
124-48-1	Chlorodibromomethane	76	U
108-90-7	Chlorobenzene	76	U
630-20-6	1,1,1,2-Tetrachloroethane	76	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-1 (0-2)  
 Matrix: (soil/water) SOIL Lab File ID: D053025.D  
 Sample wt/vol: 7.6 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 14.42 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	76	U
1330-20-7	m & p-Xylene	150	U
95-47-6	o-Xylene	76	U
100-42-5	Styrene	76	U
75-25-2	Bromoform	76	U
98-82-8	Isopropylbenzene	76	U
79-34-5	1,1,2,2-Tetrachloroethane	76	U
108-86-1	Bromobenzene	76	U
96-18-4	1,2,3-Trichloropropane	76	U
95-49-8	2-Chlorotoluene	76	U
103-65-1	n-Propylbenzene	76	U
108-67-8	1,3,5-Trimethylbenzene	76	U
106-43-4	4-Chlorotoluene	76	U
98-06-6	tert-Butylbenzene	76	U
95-63-6	1,2,4-Trimethylbenzene	76	U
135-98-8	sec-Butylbenzene	76	U
99-87-6	p-Isopropyltoluene	76	U
75-87-3	Chloromethane	76	U
75-65-0	tert butyl alcohol	76	U
541-73-1	1,3-Dichlorobenzene	76	U
109-99-9	Tetrahydrofuran	76	U
106-46-7	1,4-Dichlorobenzene	76	U
60-29-7	Diethyl Ether	76	U
104-51-8	n-butyl Benzene	76	U
95-50-1	1,2-Dichlorobenzene	76	U
96-12-8	1,2-Dibromo-3-chloropropane	76	U
120-82-1	1,2,4-Trichlorobenzene	76	U
87-68-3	Hexachlorobutadiene	76	U
91-20-3	Naphthalene	76	U
87-61-6	1,2,3-Trichlorobenzene	76	U
994-05-8	Tert-amyl Methyl Ether	76	U
75-71-8	Dichlorodifluoromethane	76	U
142-28-9	1,3-Dichloropropane	76	U
75-69-4	Trichlorofluoromethane	76	U
637-92-3	Ethyl Tert-butyl ether	76	U

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New England Testing Laboratory, Inc.



VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-1 (0-2)  
 Matrix: (soil/water) SOIL Lab File ID: D053025.D  
 Sample wt/vol: 7.6 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 14.42 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	76	U
123-91-1	1,4-Dioxane	38000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-1 (5-7)  
 Matrix: (soil/water) SOIL Lab File ID: D053028.D  
 Sample wt/vol: 12.4 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 9.62 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	45	U
74-83-9	Bromomethane	45	U
75-00-3	Chloroethane	45	U
67-64-1	Acetone	220	U
75-35-4	1,1-Dichloroethene	45	U
75-15-0	Carbon Disulfide	45	U
75-09-2	Methylene Chloride	45	U
1634-04-4	tert-Butyl methyl ether	45	U
156-60-5	trans-1,2 Dichloroethene	45	U
75-34-3	1,1-Dichloroethane	45	U
78-93-3	2-Butanone	220	U
594-20-7	2,2-Dichloropropane	45	U
156-59-2	cis-1,2-Dichloroethene	45	U
67-66-3	Chloroform	45	U
74-97-5	Bromochloromethane	45	U
71-55-6	1,1,1-Trichloroethane	45	U
563-58-6	1,1- Dichloropropene	45	U
56-23-5	Carbon Tetrachloride	45	U
71-43-2	Benzene	45	U
107-06-2	1,2-Dichloroethane	45	U
79-01-6	Trichloroethene	45	U
78-87-5	1,2-Dichloropropane	45	U
75-27-4	Bromodichloromethane	45	U
74-95-3	Dibromomethane	45	U
108-10-1	4-Methyl-2-pentanone	220	U
106-93-4	Ethylene Dibromide	45	U
10061-01-5	cis-1,3-Dichloropropene	45	U
108-88-3	Toluene	45	U
10061-02-6	Trans-1,3-Dichloropropene	45	U
79-00-5	1,1,2-Trichloroethane	45	U
591-78-6	2-Hexanone	220	U
127-18-4	Tetrachloroethene	45	U
124-48-1	Chlorodibromomethane	45	U
108-90-7	Chlorobenzene	45	U
630-20-6	1,1,1,2-Tetrachloroethane	45	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-1 (5-7)  
 Matrix: (soil/water) SOIL Lab File ID: D053028.D  
 Sample wt/vol: 12.4 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 9.62 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	45	U
1330-20-7	m & p-Xylene	1100	
95-47-6	o-Xylene	45	U
100-42-5	Styrene	45	U
75-25-2	Bromoform	45	U
98-82-8	Isopropylbenzene	420	
79-34-5	1,1,2,2-Tetrachloroethane	45	U
108-86-1	Bromobenzene	45	U
96-18-4	1,2,3-Trichloropropane	45	U
95-49-8	2-Chlorotoluene	45	U
103-65-1	n-Propylbenzene	1500	
108-67-8	1,3,5-Trimethylbenzene	4600	
106-43-4	4-Chlorotoluene	45	U
98-06-6	tert-Butylbenzene	2200	
95-63-6	1,2,4-Trimethylbenzene	8200	
135-98-8	sec-Butylbenzene	1400	
99-87-6	p-Isopropyltoluene	1500	
75-87-3	Chloromethane	45	U
75-65-0	tert butyl alcohol	45	U
541-73-1	1,3-Dichlorobenzene	45	U
109-99-9	Tetrahydrofuran	45	U
106-46-7	1,4-Dichlorobenzene	45	U
60-29-7	Diethyl Ether	45	U
104-51-8	n-butyl Benzene	2500	
95-50-1	1,2-Dichlorobenzene	45	U
96-12-8	1,2-Dibromo-3-chloropropane	45	U
120-82-1	1,2,4-Trichlorobenzene	45	U
87-68-3	Hexachlorobutadiene	45	U
91-20-3	Naphthalene	2700	
87-61-6	1,2,3-Trichlorobenzene	45	U
994-05-8	Tert-amyl Methyl Ether	45	U
75-71-8	Dichlorodifluoromethane	45	U
142-28-9	1,3-Dichloropropane	45	U
75-69-4	Trichlorofluoromethane	45	U
637-92-3	Ethyl Tert-butyl ether	45	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-1 (5-7)  
 Matrix: (soil/water) SOIL Lab File ID: D053028.D  
 Sample wt/vol: 12.4 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 9.62 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	45	U
123-91-1	1,4-Dioxane	22000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-2 (0-2)  
 Matrix: (soil/water) SOIL Lab File ID: D053024.D  
 Sample wt/vol: 9.8 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 15.56 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	61	U
74-83-9	Bromomethane	61	U
75-00-3	Chloroethane	61	U
67-64-1	Acetone	310	U
75-35-4	1,1-Dichloroethene	61	U
75-15-0	Carbon Disulfide	61	U
75-09-2	Methylene Chloride	61	U
1634-04-4	tert-Butyl methyl ether	61	U
156-60-5	trans-1,2 Dichloroethene	61	U
75-34-3	1,1-Dichloroethane	61	U
78-93-3	2-Butanone	310	U
594-20-7	2,2-Dichloropropane	61	U
156-59-2	cis-1,2-Dichloroethene	61	U
67-66-3	Chloroform	61	U
74-97-5	Bromochloromethane	61	U
71-55-6	1,1,1-Trichloroethane	61	U
563-58-6	1,1- Dichloropropene	61	U
56-23-5	Carbon Tetrachloride	61	U
71-43-2	Benzene	61	U
107-06-2	1,2-Dichloroethane	61	U
79-01-6	Trichloroethene	61	U
78-87-5	1,2-Dichloropropane	61	U
75-27-4	Bromodichloromethane	61	U
74-95-3	Dibromomethane	61	U
108-10-1	4-Methyl-2-pentanone	310	U
106-93-4	Ethylene Dibromide	61	U
10061-01-5	cis-1,3-Dichloropropene	61	U
108-88-3	Toluene	61	U
10061-02-6	Trans-1,3-Dichloropropene	61	U
79-00-5	1,1,2-Trichloroethane	61	U
591-78-6	2-Hexanone	310	U
127-18-4	Tetrachloroethene	61	U
124-48-1	Chlorodibromomethane	61	U
108-90-7	Chlorobenzene	61	U
630-20-6	1,1,1,2-Tetrachloroethane	61	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-2 (0-2)  
 Matrix: (soil/water) SOIL Lab File ID: D053024.D  
 Sample wt/vol: 9.8 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 15.56 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	61	U
1330-20-7	m & p-Xylene	120	U
95-47-6	o-Xylene	61	U
100-42-5	Styrene	61	U
75-25-2	Bromoform	61	U
98-82-8	Isopropylbenzene	61	U
79-34-5	1,1,2,2-Tetrachloroethane	61	U
108-86-1	Bromobenzene	61	U
96-18-4	1,2,3-Trichloropropane	61	U
95-49-8	2-Chlorotoluene	61	U
103-65-1	n-Propylbenzene	61	U
108-67-8	1,3,5-Trimethylbenzene	61	U
106-43-4	4-Chlorotoluene	61	U
98-06-6	tert-Butylbenzene	61	U
95-63-6	1,2,4-Trimethylbenzene	61	U
135-98-8	sec-Butylbenzene	61	U
99-87-6	p-Isopropyltoluene	61	U
75-87-3	Chloromethane	61	U
75-65-0	tert butyl alcohol	61	U
541-73-1	1,3-Dichlorobenzene	61	U
109-99-9	Tetrahydrofuran	61	U
106-46-7	1,4-Dichlorobenzene	61	U
60-29-7	Diethyl Ether	61	U
104-51-8	n-butyl Benzene	61	U
95-50-1	1,2-Dichlorobenzene	61	U
96-12-8	1,2-Dibromo-3-chloropropane	61	U
120-82-1	1,2,4-Trichlorobenzene	61	U
87-68-3	Hexachlorobutadiene	61	U
91-20-3	Naphthalene	61	U
87-61-6	1,2,3-Trichlorobenzene	61	U
994-05-8	Tert-amyl Methyl Ether	61	U
75-71-8	Dichlorodifluoromethane	61	U
142-28-9	1,3-Dichloropropane	61	U
75-69-4	Trichlorofluoromethane	61	U
637-92-3	Ethyl Tert-butyl ether	61	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-2 (0-2)  
 Matrix: (soil/water) SOIL Lab File ID: D053024.D  
 Sample wt/vol: 9.8 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 15.56 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	61	U
123-91-1	1,4-Dioxane	31000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-3 (5-6)  
 Matrix: (soil/water) SOIL Lab File ID: D053022.D  
 Sample wt/vol: 9.8 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 9.08 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	56	U
74-83-9	Bromomethane	56	U
75-00-3	Chloroethane	56	U
67-64-1	Acetone	280	U
75-35-4	1,1-Dichloroethene	56	U
75-15-0	Carbon Disulfide	56	U
75-09-2	Methylene Chloride	56	U
1634-04-4	tert-Butyl methyl ether	56	U
156-60-5	trans-1,2 Dichloroethene	56	U
75-34-3	1,1-Dichloroethane	56	U
78-93-3	2-Butanone	280	U
594-20-7	2,2-Dichloropropane	56	U
156-59-2	cis-1,2-Dichloroethene	56	U
67-66-3	Chloroform	56	U
74-97-5	Bromochloromethane	56	U
71-55-6	1,1,1-Trichloroethane	56	U
563-58-6	1,1- Dichloropropene	56	U
56-23-5	Carbon Tetrachloride	56	U
71-43-2	Benzene	56	U
107-06-2	1,2-Dichloroethane	56	U
79-01-6	Trichloroethene	56	U
78-87-5	1,2-Dichloropropane	56	U
75-27-4	Bromodichloromethane	56	U
74-95-3	Dibromomethane	56	U
108-10-1	4-Methyl-2-pentanone	280	U
106-93-4	Ethylene Dibromide	56	U
10061-01-5	cis-1,3-Dichloropropene	56	U
108-88-3	Toluene	56	U
10061-02-6	Trans-1,3-Dichloropropene	56	U
79-00-5	1,1,2-Trichloroethane	56	U
591-78-6	2-Hexanone	280	U
127-18-4	Tetrachloroethene	56	U
124-48-1	Chlorodibromomethane	56	U
108-90-7	Chlorobenzene	56	U
630-20-6	1,1,1,2-Tetrachloroethane	56	U

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New England Testing Laboratory, Inc.



VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-3 (5-6)  
 Matrix: (soil/water) SOIL Lab File ID: D053022.D  
 Sample wt/vol: 9.8 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 9.08 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	56	U
1330-20-7	m & p-Xylene	110	U
95-47-6	o-Xylene	56	U
100-42-5	Styrene	56	U
75-25-2	Bromoform	56	U
98-82-8	Isopropylbenzene	56	U
79-34-5	1,1,2,2-Tetrachloroethane	56	U
108-86-1	Bromobenzene	56	U
96-18-4	1,2,3-Trichloropropane	56	U
95-49-8	2-Chlorotoluene	56	U
103-65-1	n-Propylbenzene	56	U
108-67-8	1,3,5-Trimethylbenzene	56	U
106-43-4	4-Chlorotoluene	56	U
98-06-6	tert-Butylbenzene	56	U
95-63-6	1,2,4-Trimethylbenzene	56	U
135-98-8	sec-Butylbenzene	56	U
99-87-6	p-Isopropyltoluene	56	U
75-87-3	Chloromethane	56	U
75-65-0	tert butyl alcohol	56	U
541-73-1	1,3-Dichlorobenzene	56	U
109-99-9	Tetrahydrofuran	56	U
106-46-7	1,4-Dichlorobenzene	56	U
60-29-7	Diethyl Ether	56	U
104-51-8	n-butyl Benzene	56	U
95-50-1	1,2-Dichlorobenzene	56	U
96-12-8	1,2-Dibromo-3-chloropropane	56	U
120-82-1	1,2,4-Trichlorobenzene	56	U
87-68-3	Hexachlorobutadiene	56	U
91-20-3	Naphthalene	56	U
87-61-6	1,2,3-Trichlorobenzene	56	U
994-05-8	Tert-amyl Methyl Ether	56	U
75-71-8	Dichlorodifluoromethane	56	U
142-28-9	1,3-Dichloropropane	56	U
75-69-4	Trichlorofluoromethane	56	U
637-92-3	Ethyl Tert-butyl ether	56	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-3 (5-6)  
 Matrix: (soil/water) SOIL Lab File ID: D053022.D  
 Sample wt/vol: 9.8 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 9.08 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	56	U
123-91-1	1,4-Dioxane	28000	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NSB-3 (4-5)  
 Matrix: (soil/water) SOIL Lab File ID: D053023.D  
 Sample wt/vol: 11.9 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 12.52 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	48	U
74-83-9	Bromomethane	48	U
75-00-3	Chloroethane	48	U
67-64-1	Acetone	240	U
75-35-4	1,1-Dichloroethene	48	U
75-15-0	Carbon Disulfide	48	U
75-09-2	Methylene Chloride	48	U
1634-04-4	tert-Butyl methyl ether	48	U
156-60-5	trans-1,2 Dichloroethene	48	U
75-34-3	1,1-Dichloroethane	48	U
78-93-3	2-Butanone	240	U
594-20-7	2,2-Dichloropropane	48	U
156-59-2	cis-1,2-Dichloroethene	48	U
67-66-3	Chloroform	48	U
74-97-5	Bromochloromethane	48	U
71-55-6	1,1,1-Trichloroethane	48	U
563-58-6	1,1- Dichloropropene	48	U
56-23-5	Carbon Tetrachloride	48	U
71-43-2	Benzene	48	U
107-06-2	1,2-Dichloroethane	48	U
79-01-6	Trichloroethene	48	U
78-87-5	1,2-Dichloropropane	48	U
75-27-4	Bromodichloromethane	48	U
74-95-3	Dibromomethane	48	U
108-10-1	4-Methyl-2-pentanone	240	U
106-93-4	Ethylene Dibromide	48	U
10061-01-5	cis-1,3-Dichloropropene	48	U
108-88-3	Toluene	48	U
10061-02-6	Trans-1,3-Dichloropropene	48	U
79-00-5	1,1,2-Trichloroethane	48	U
591-78-6	2-Hexanone	240	U
127-18-4	Tetrachloroethene	48	U
124-48-1	Chlorodibromomethane	48	U
108-90-7	Chlorobenzene	48	U
630-20-6	1,1,1,2-Tetrachloroethane	48	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NSB-3 (4-5)  
 Matrix: (soil/water) SOIL Lab File ID: D053023.D  
 Sample wt/vol: 11.9 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 12.52 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	48	U
1330-20-7	m & p-Xylene	96	U
95-47-6	o-Xylene	48	U
100-42-5	Styrene	48	U
75-25-2	Bromoform	48	U
98-82-8	Isopropylbenzene	48	U
79-34-5	1,1,2,2-Tetrachloroethane	48	U
108-86-1	Bromobenzene	48	U
96-18-4	1,2,3-Trichloropropane	48	U
95-49-8	2-Chlorotoluene	48	U
103-65-1	n-Propylbenzene	48	U
108-67-8	1,3,5-Trimethylbenzene	48	U
106-43-4	4-Chlorotoluene	48	U
98-06-6	tert-Butylbenzene	48	U
95-63-6	1,2,4-Trimethylbenzene	97	
135-98-8	sec-Butylbenzene	88	
99-87-6	p-Isopropyltoluene	48	U
75-87-3	Chloromethane	48	U
75-65-0	tert butyl alcohol	48	U
541-73-1	1,3-Dichlorobenzene	48	U
109-99-9	Tetrahydrofuran	48	U
106-46-7	1,4-Dichlorobenzene	48	U
60-29-7	Diethyl Ether	48	U
104-51-8	n-butyl Benzene	48	U
95-50-1	1,2-Dichlorobenzene	48	U
96-12-8	1,2-Dibromo-3-chloropropane	48	U
120-82-1	1,2,4-Trichlorobenzene	48	U
87-68-3	Hexachlorobutadiene	48	U
91-20-3	Naphthalene	48	U
87-61-6	1,2,3-Trichlorobenzene	48	U
994-05-8	Tert-amyl Methyl Ether	48	U
75-71-8	Dichlorodifluoromethane	48	U
142-28-9	1,3-Dichloropropane	48	U
75-69-4	Trichlorofluoromethane	48	U
637-92-3	Ethyl Tert-butyl ether	48	U

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New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NSB-3 (4-5)  
 Matrix: (soil/water) SOIL Lab File ID: D053023.D  
 Sample wt/vol: 11.9 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 12.52 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	48	U
123-91-1	1,4-Dioxane	24000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: VBLK053014  
 Matrix: (soil/water) SOIL Lab File ID: D053007.D  
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 0 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
75-01-4	Vinyl Chloride	50	U
74-83-9	Bromomethane	50	U
75-00-3	Chloroethane	50	U
67-64-1	Acetone	250	U
75-35-4	1,1-Dichloroethene	50	U
75-15-0	Carbon Disulfide	50	U
75-09-2	Methylene Chloride	50	U
1634-04-4	tert-Butyl methyl ether	50	U
156-60-5	trans-1,2 Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
78-93-3	2-Butanone	250	U
594-20-7	2,2-Dichloropropane	50	U
156-59-2	cis-1,2-Dichloroethene	50	U
67-66-3	Chloroform	50	U
74-97-5	Bromochloromethane	50	U
71-55-6	1,1,1-Trichloroethane	50	U
563-58-6	1,1- Dichloropropene	50	U
56-23-5	Carbon Tetrachloride	50	U
71-43-2	Benzene	50	U
107-06-2	1,2-Dichloroethane	50	U
79-01-6	Trichloroethene	50	U
78-87-5	1,2-Dichloropropane	50	U
75-27-4	Bromodichloromethane	50	U
74-95-3	Dibromomethane	50	U
108-10-1	4-Methyl-2-pentanone	250	U
106-93-4	Ethylene Dibromide	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
108-88-3	Toluene	50	U
10061-02-6	Trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	50	U
124-48-1	Chlorodibromomethane	50	U
108-90-7	Chlorobenzene	50	U
630-20-6	1,1,1,2-Tetrachloroethane	50	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: VBLK053014  
 Matrix: (soil/water) SOIL Lab File ID: D053007.D  
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 0 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
100-41-4	Ethylbenzene	50	U
1330-20-7	m & p-Xylene	100	U
95-47-6	o-Xylene	50	U
100-42-5	Styrene	50	U
75-25-2	Bromoform	50	U
98-82-8	Isopropylbenzene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-86-1	Bromobenzene	50	U
96-18-4	1,2,3-Trichloropropane	50	U
95-49-8	2-Chlorotoluene	50	U
103-65-1	n-Propylbenzene	50	U
108-67-8	1,3,5-Trimethylbenzene	50	U
106-43-4	4-Chlorotoluene	50	U
98-06-6	tert-Butylbenzene	50	U
95-63-6	1,2,4-Trimethylbenzene	50	U
135-98-8	sec-Butylbenzene	50	U
99-87-6	p-Isopropyltoluene	50	U
75-87-3	Chloromethane	50	U
75-65-0	tert butyl alcohol	50	U
541-73-1	1,3-Dichlorobenzene	50	U
109-99-9	Tetrahydrofuran	50	U
106-46-7	1,4-Dichlorobenzene	50	U
60-29-7	Diethyl Ether	50	U
104-51-8	n-butyl Benzene	50	U
95-50-1	1,2-Dichlorobenzene	50	U
96-12-8	1,2-Dibromo-3-chloropropane	50	U
120-82-1	1,2,4-Trichlorobenzene	50	U
87-68-3	Hexachlorobutadiene	50	U
91-20-3	Naphthalene	50	U
87-61-6	1,2,3-Trichlorobenzene	50	U
994-05-8	Tert-amyl Methyl Ether	50	U
75-71-8	Dichlorodifluoromethane	50	U
142-28-9	1,3-Dichloropropane	50	U
75-69-4	Trichlorofluoromethane	50	U
637-92-3	Ethyl Tert-butyl ether	50	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0528-24 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: VBLK053014  
 Matrix: (soil/water) SOIL Lab File ID: D053007.D  
 Sample wt/vol: 10.0 (g/ml) G Date Sampled: 5/28/2014  
 % Moisture 0 Date Analyzed: 5/30/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>UG/KG</u>	Q
108-20-3	Diisopropyl Ether	50	U
123-91-1	1,4-Dioxane	25000	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.



SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: New England Testing Lab Contract: Coffey's Texaco  
 Lab Code: RI010 Case No.: A0528-24 SAS No.: \_\_\_\_\_ SDG No.: Newport E  
 Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VLCS053014	97	105	106	0
02	VBLK053014	92	106	102	0
03	NMW-3 (5-6)	89	104	94	0
04	NSB-3 (4-5)	91	103	104	0
05	NMW-2 (0-2)	91	101	92	0
06	NMW-1 (0-2)	90	114	105	0
07	NSB-2 (0-2)	88	107	104	0
08	NSB-1 (0-2)	91	97	99	0
09	NMW-1 (5-7)	103	99	95	0
10	NSB-1 (6-8)	104	98	93	0

QC LIMITS

SMC1 = 4-Bromofluorobenzene (70-130)  
 SMC2 = Toluene-D8 (70-130)  
 SMC3 = 1,2-Dichloroethane-D4 (70-130)

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits  
 D System Monitoring Compound diluted out

New England Testing Laboratory, Inc.

### Volatile Organics Laboratory Control Spike

Date Analyzed: 05/30/2014

Sample ID: VLCS053014

<b>Compound</b>	<b>Spike Added</b>	<b>Spike Result</b>	<b>Recovery, %</b>	<b>Lower Control Limit, %</b>	<b>Upper Control Limit, %</b>
1,1-Dichloroethene	50.0	54.5	109	70	129
Benzene	50.0	54.7	109	73	129
Trichloroethene	50.0	54.8	110	77	122
Toluene	50.0	55.1	110	75	123
Chlorobenzene	50.0	53.1	106	73	125

NEW ENGLAND TESTING LABORATORY, INC.  
 1254 Douglas Avenue  
 North Providence, RI 02904  
 1-888-863-8522

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME/LOCATION		AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	TESTS**					REMARKS
CLIENT		REPORT TO:	INVOICE TO:						VOC	SVOC (PAH ONLY)	RCRAB	PCB	TPH	
DATE	TIME	COMP	GRAB	SAMPLE I.D.										
5/28/14	9:29		X	NSB-1 (0'-2')		•••	X	3	MeOH	X	X	X	X	
	9:33			NSB-1 (6'-8')		••	X	2	MeOH	X	X	X	X	HOLD
	10:12			NSB-2 (0'-2')		•••	X	3	MeOH	X	X	X	X	
	10:55			MMW-1 (0'-2')		••	X	3	MeOH	X	X	X	X	
	11:01			MMW-1 (5'-7')		••	X	2	MeOH	X	X	X	X	HOLD
	11:45			MMW-2 (0'-2')		•••	X	3	MeOH	X	X	X	X	
	11:50			MMW-2 (5'-7')		•	X	1					X	HOLD
	12:58			MMW-3 (0'-2')		••	X	<del>2</del> 2		X	X	X	X	
	13:02			MMW-3 (5'-6')		••	X	2	MeOH	X			X	
	13:50			NSB-3 (0'-2')		•	X	1		X	X	X	X	
	13:54			NSB-3 (4'-5')		••	X	2	MeOH	X			X	

Sampled by: (Signature) 	Date/Time 5/28/14 See above	Received by: (Signature)	Date/Time	Laboratory Remarks: Temp. received: 4 Cooled <input type="checkbox"/>	Special Instructions: List Specific Detection Limit Requirements:
Relinquished by: (Signature) 	Date/Time 5/28/14 16:08	Received by: (Signature)	Date/Time		
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature) 	Date/Time 5/28/14 16:08		

Turnaround (Business Days) \_\_\_\_\_

\*\*Netlab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates



**REPORT OF ANALYTICAL RESULTS**

**NETLAB Case Number A0604-27**

Prepared for:

Newport Environmental  
PO BOX 957  
North Scituate, RI 02857

Report Date: June 10, 2013

Reviewed by:

Richard Warila  
Laboratory Director

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.

1254 Douglas Avenue, North Providence, RI 02904

(401) 353-3420

**SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:**

The samples listed in Table I were submitted to New England Testing Laboratory on June 4, 2014. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the samples provided to us by the client which are indicated on the custody record. The case number for this sample submission is A0604-27.

Custody records are included in this report.

**Site: Colfrey's Texaco**

**TABLE I, Samples Submitted**

Sample ID	Date Sampled	Matrix	Analysis Requested
NMW-1	6/4/14	Water	Table II
NMW-2	6/4/14	Water	Table II
NMW-3	6/4/14	Water	Table II
MW-2	6/4/14	Water	Table II
MW-3	6/4/14	Water	Table II
MW-29	6/4/14	Water	Table II
MW-30	6/4/14	Water	Table II

**TABLE II, Analysis and Methods**

<b>ANALYSIS</b>	<b>PREPARATION METHOD</b>	<b>DETERMINATIVE METHOD</b>
Volatile Organic Compounds	5035	8260B

These methods are documented in:

*Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water, USEPA/EMSL.*

## **CASE NARRATIVE:**

### Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

### Volatile Organic Compounds

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

## **RESULTS: VOLATILE ORGANIC COMPOUNDS**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-1  
 Matrix: (soil/water) WATER Lab File ID: C060522.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0, 4.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	218	
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.



VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-1  
 Matrix: (soil/water) WATER Lab File ID: C060522.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0, 4.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	7.6	
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	2.2	
108-67-8	1,3,5-Trimethylbenzene	8.4	
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	30	
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.8	
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	4.7	
87-61-6	1,2,3-Trichlorobenzene	1.0	U
994-05-8	Tert-amyl Methyl Ether	14	
75-71-8	Dichlorodifluoromethane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
637-92-3	Ethyl Tert-butyl ether	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-1  
 Matrix: (soil/water) WATER Lab File ID: C060522.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0, 4.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
108-20-3	Diisopropyl Ether	1.0	U
123-91-1	1,4-Dioxane	500	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-2  
 Matrix: (soil/water) WATER Lab File ID: C060517.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	2.3	
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-2  
 Matrix: (soil/water) WATER Lab File ID: C060517.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	21	
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
994-05-8	Tert-amyl Methyl Ether	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
637-92-3	Ethyl Tert-butyl ether	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-2  
 Matrix: (soil/water) WATER Lab File ID: C060517.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
108-20-3	Diisopropyl Ether	1.0	U
123-91-1	1,4-Dioxane	500	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-3  
 Matrix: (soil/water) WATER Lab File ID: C060521.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	8.3	
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.8	
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-3  
 Matrix: (soil/water) WATER Lab File ID: C060521.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
994-05-8	Tert-amyl Methyl Ether	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
637-92-3	Ethyl Tert-butyl ether	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: NMW-3  
 Matrix: (soil/water) WATER Lab File ID: C060521.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
108-20-3	Diisopropyl Ether	1.0	U
123-91-1	1,4-Dioxane	500	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.



VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: MW-2  
 Matrix: (soil/water) WATER Lab File ID: C060516.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.4	
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: MW-2  
 Matrix: (soil/water) WATER Lab File ID: C060516.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
994-05-8	Tert-amyl Methyl Ether	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
637-92-3	Ethyl Tert-butyl ether	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: MW-2  
 Matrix: (soil/water) WATER Lab File ID: C060516.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
108-20-3	Diisopropyl Ether	1.0	U
123-91-1	1,4-Dioxane	500	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: MW-3  
 Matrix: (soil/water) WATER Lab File ID: C060518.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	7.3	
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: MW-3  
 Matrix: (soil/water) WATER Lab File ID: C060518.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
994-05-8	Tert-amyl Methyl Ether	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
637-92-3	Ethyl Tert-butyl ether	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: MW-3  
 Matrix: (soil/water) WATER Lab File ID: C060518.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
108-20-3	Diisopropyl Ether	1.0	U
123-91-1	1,4-Dioxane	500	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: MW-29  
 Matrix: (soil/water) WATER Lab File ID: C060523.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0, 4.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	20	
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.5	
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.5	
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: MW-29  
 Matrix: (soil/water) WATER Lab File ID: C060523.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0, 4.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
100-41-4	Ethylbenzene	72	
1330-20-7	m & p-Xylene	110	
95-47-6	o-Xylene	51	
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	9.5	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	23	
108-67-8	1,3,5-Trimethylbenzene	27	
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	267	
135-98-8	sec-Butylbenzene	4.4	
99-87-6	p-Isopropyltoluene	3.4	
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	11	
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	9.9	
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	38	
87-61-6	1,2,3-Trichlorobenzene	1.0	U
994-05-8	Tert-amyl Methyl Ether	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
637-92-3	Ethyl Tert-butyl ether	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.



VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: MW-29  
 Matrix: (soil/water) WATER Lab File ID: C060523.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0, 4.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
108-20-3	Diisopropyl Ether	1.0	U
123-91-1	1,4-Dioxane	500	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: MW-30  
 Matrix: (soil/water) WATER Lab File ID: C060525.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0, 8.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	48	
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1120	
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	5.4	
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: MW-30  
 Matrix: (soil/water) WATER Lab File ID: C060525.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0, 8.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
100-41-4	Ethylbenzene	2.1	
1330-20-7	m & p-Xylene	8.8	
95-47-6	o-Xylene	1.7	
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	11	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	6.3	
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.3	
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	233	
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.2	
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.5	
87-61-6	1,2,3-Trichlorobenzene	1.0	U
994-05-8	Tert-amyl Methyl Ether	4.3	
75-71-8	Dichlorodifluoromethane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
637-92-3	Ethyl Tert-butyl ether	2.2	

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: MW-30  
 Matrix: (soil/water) WATER Lab File ID: C060525.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0, 8.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
108-20-3	Diisopropyl Ether	9.4	
123-91-1	1,4-Dioxane	500	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: VBLK060514  
 Matrix: (soil/water) WATER Lab File ID: C060507.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: VBLK060514  
 Matrix: (soil/water) WATER Lab File ID: C060507.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
994-05-8	Tert-amyl Methyl Ether	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
637-92-3	Ethyl Tert-butyl ether	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0604-27 Client Name: Newport Environmental  
 Method: 8260 Lab Sample ID: VBLK060514  
 Matrix: (soil/water) WATER Lab File ID: C060507.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/4/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/5/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: MM Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
108-20-3	Diisopropyl Ether	1.0	U
123-91-1	1,4-Dioxane	500	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

## WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: New England Testing Laboratory Contract: Colfey's TexacoLab Code: RI010 Case No.: A0604-27 SAS No.: \_\_\_\_\_ SDG No.: Newport E

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VLCS060514	107	105	98	0
02	VBLK060514	104	104	102	0
03	MW-2	101	103	99	0
04	NMW-2	102	102	99	0
05	MW-3	98	102	100	0
06	NMW-3	100	101	104	0
07	NMW-1	101	100	100	0
08	MW-29	102	103	98	0
09	MW-30	100	103	100	0

## QC LIMITS

SMC1	=	4-Bromofluorobenzene	(70-130)
SMC2	=	Toluene-D8	(70-130)
SMC3	=	1,2-Dichloroethane-D4	(70-130)

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits  
 D System Monitoring Compound diluted out

New England Testing Laboratory, Inc.



### Volatile Organics Laboratory Control Spike

Date Analyzed: 06/05/2014

Sample ID: VLCS060514

<b>Compound</b>	<b>Spike Added</b>	<b>Spike Result</b>	<b>Recovery, %</b>	<b>Lower Control Limit, %</b>	<b>Upper Control Limit, %</b>
1,1-Dichloroethene	50.0	49.0	98	70	129
Benzene	50.0	49.9	100	73	129
Trichloroethene	50.0	50.1	100	77	122
Toluene	50.0	50.4	101	75	123
Chlorobenzene	50.0	45.7	91	73	125

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME/LOCATION						PRESERVATIVE	TESTS**	REMARKS
NS0502		Coffey's Texaco								
CLIENT				AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	VOC's		
Newport Environmental										
REPORT TO: <del>red eagle llc</del> newpostem.com										
INVOICE TO: black o' "										
DATE	TIME	COMP	GRAB	SAMPLE I.D.						
6/4/14	am		X	NMW-1	..	X	2	HCL	X	
↓	↓	↓	↓	NMW-2	..	↓	↓	↓	↓	
↓	↓	↓	↓	NMW-3	..	↓	↓	↓	↓	
↓	↓	↓	↓	MW-2	..	↓	↓	↓	↓	
↓	↓	↓	↓	MW-3	..	↓	↓	↓	↓	
↓	↓	↓	↓	MW-29	..	↓	↓	↓	↓	
↓	↓	↓	↓	MW-30	..	↓	↓	↓	↓	

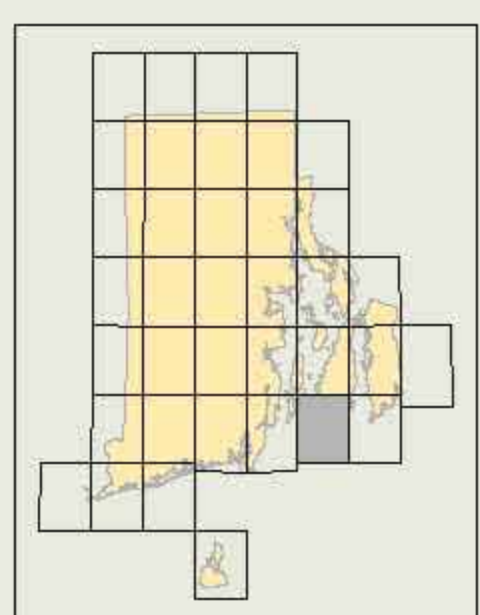
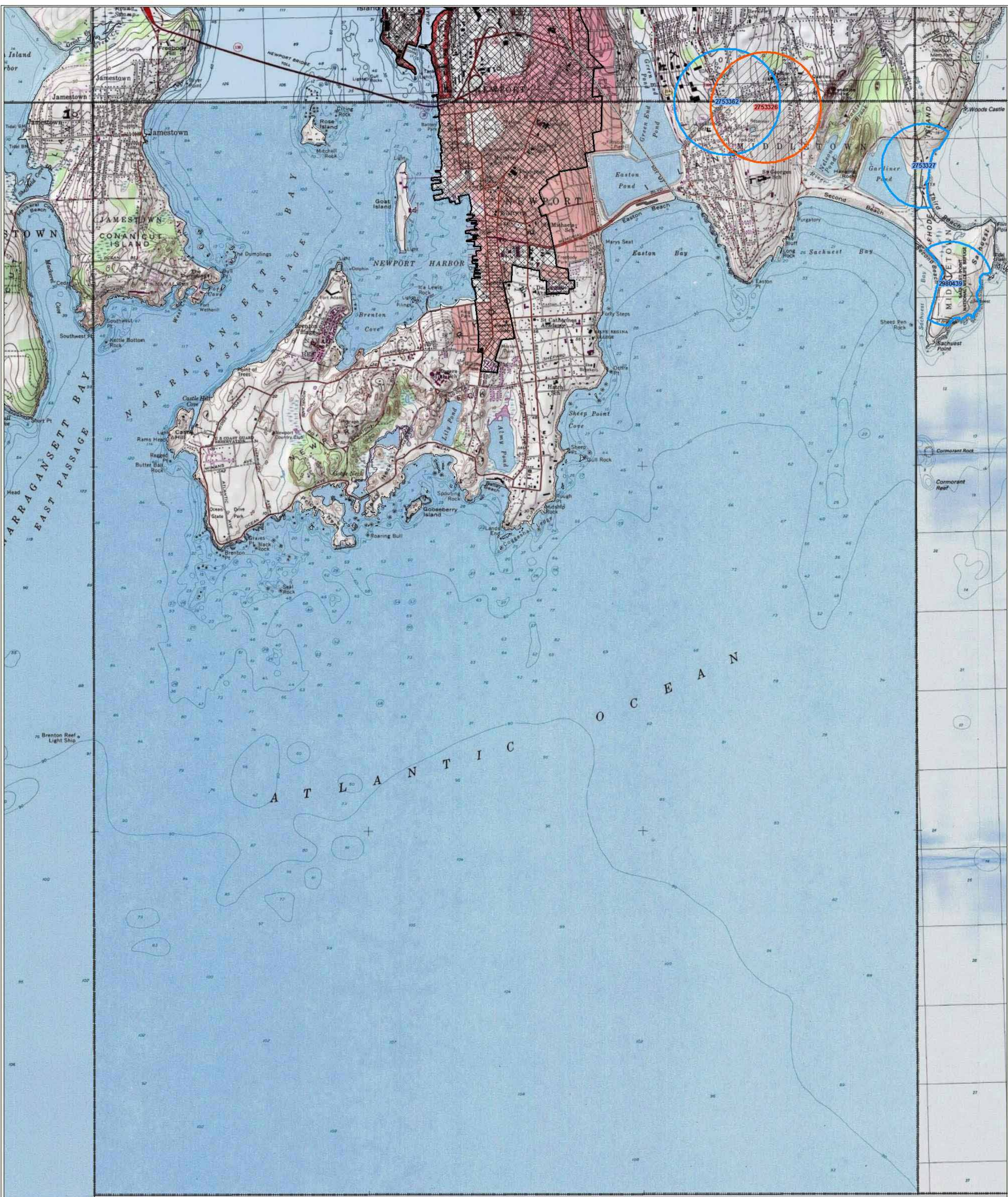
Sampled by: (Signature) <i>Black</i>	Date/Time 6/4 14:40	Received by: (Signature) <i>JR</i>	Date/Time 6/4/14 14:40	Laboratory Remarks: Temp. received: 4 Cooled <input checked="" type="checkbox"/>	Special Instructions: List Specific Detection Limit Requirements:
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
Relinquished by: (Signature) <i>JR</i>	Date/Time 6/4/14 15:33	Received for Laboratory by: (Signature) <i>JWR</i>	Date/Time 6/4/14 15:34		

\*\*Netlab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates

PHASE II LIMITED SUBSURFACE INVESTIGATION  
Coffey's Texaco  
48 Touro Street  
Newport, Rhode Island

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**APPENDIX F**  
**GROUNDWATER CLASSIFICATION MAP**

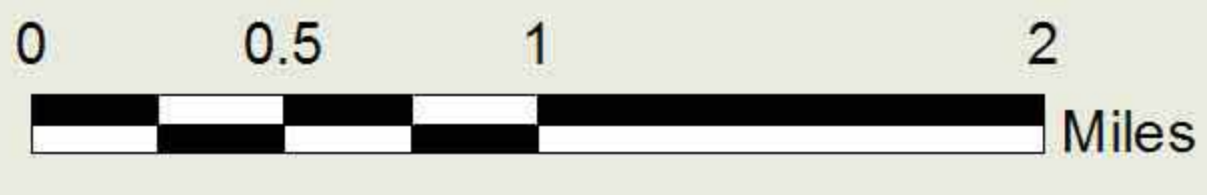


**Groundwater Classification  
&  
Well Head Protection Area  
2010**

1:24,000

1 inch = 2,000 feet

NEWPORT



**Groundwater Class Definitions**

- GAA - Groundwater resources known or presumed to be suitable for drinking without treatment.
- GA - Groundwater resources known or presumed to be of drinking water quality but are not assigned GAA
- GB - Groundwater resources known or presumed unsuitable for drinking water use without treatment.
- GC - Groundwater resources underlying waste disposal and surrounding areas.

**Well Head Protection Area Definition**

The critical portion of a three-dimensional zone surrounding a public well or wellfield through which water will move toward and reach such well or wellfield.

USGS Topographic Map Background is for Reference Only  
Revision Date and Source Scale Varies

Projection: Transverse Mercator  
Datum: NAD 83  
RI State Plane Coordinate System (Feet)

- Community WHPA
- Non-Community WHPA
- Community Water Supply ID**
- Non-Community Water Supply ID**

**Groundwater Classification**

- GA All areas are assumed GA unless otherwise indicated by the shade patterns shown below
- GAA
- GC
- GB > 25 Acres
- GB < = 25 Acres
- Quadrangle Boundary